

# L-Series Plus DMX Protocol V4.4

TECHNICAL INFORMATION

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# 1 About this Document

For more details about the product, please refer to the ARRI website at:

[L-Series Plus product page](#)



Searchkeys:

L-Series Plus, L1.004880\*

[ARRI documentation portal](#)



## Document Revision History

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| Version | Release | Date      | Note          |
|---------|---------|-----------|---------------|
| 1.0     |         | July 2024 | First Release |

## 2 DMX Protocol Version 4.4

### 2.1 DMX Mode List

| 8 bit<br>1 channel per function                  | 16 bit<br>1 – 2 channels per function            | Coarse / fine<br>1 – 2 channels per function |
|--------------------------------------------------|--------------------------------------------------|----------------------------------------------|
| Mode 1 [► 9] (12)*<br>CCT & RGBW                 | Mode 6 [► 14] (20)<br>CCT & RGBW                 | Mode 11 [► 19] (18)<br>CCT & RGBW            |
| Mode 2 [► 10] (7)<br>CCT                         | Mode 7 [► 15] (10)<br>CCT                        | Mode 12 [► 20] (9)<br>CCT                    |
| Mode 3 [► 11] (10)<br>CCT & HSI                  | Mode 8 [► 16] (16)<br>CCT & HSI                  | Mode 13 [► 21] (14)<br>CCT & HSI             |
| Mode 4 [► 12] (9)<br>RGBW                        | Mode 9 [► 17] (14)<br>RGBW                       | Mode 14 [► 22] (14)<br>RGBW                  |
| Mode 5 [► 13] (7)<br>HSI                         | Mode 10 [► 18] (10)<br>HSI                       | Mode 15 [► 23] (10)<br>HSI                   |
| Mode 16 [► 24] (17)<br>Gel V2                    | Mode 17 [► 26] (19)<br>Gel V2                    |                                              |
| Mode 18 [► 39] (11)<br>X,y coordinates           | Mode 19 [► 40] (17)<br>X,y coordinates           |                                              |
| Mode 20 [► 41] (10)<br>Source matching           | Mode 21 [► 42] (12)<br>Source matching           |                                              |
| Mode 22 [► 45] (13)<br>Effects                   | Mode 23 [► 47] (21)<br>Effects                   |                                              |
| Mode 24 [► 57] (9)<br>LE control CCT & RGBW      | Mode 25 [► 58] (17)<br>LE control CCT & RGBW     |                                              |
| Mode 26 [► 59] (4)<br>LE control HSI             | Mode 27 [► 59] (8)<br>LE control HSI             |                                              |
| Mode 28 [► 60] (4)<br>LE control x,y coordinates | Mode 29 [► 60] (7)<br>LE control x,y coordinates |                                              |
| Mode 30 [► 61] (24)<br>Ultimate DMX              | Mode 31 [► 63] (42)<br>Ultimate DMX              |                                              |

\*= Factory Default

### 2.2 Green - Magenta Point - Average Equivalents

| Setting      | Rosco # | Setting      | Rosco # |
|--------------|---------|--------------|---------|
| Full -Green  | 3308    | Full +Green  | 3304    |
| 1 / 2 -Green | 3313    | 1 / 2 +Green | 3315    |
| 1 / 4 -Green | 3314    | 1 / 4 +Green | 3316    |
| 1 / 8 -Green | 3318    | 1 / 8 +Green | 3317    |

## 2.3 Preset Channel

| DMX Cannel            | Value     | Percent  | Function                              |
|-----------------------|-----------|----------|---------------------------------------|
| Depending on DMX mode | 0 – 11    | 0 – 4    | <b>Preset</b><br>No Effect            |
|                       |           |          | <b>User Defined Presets</b>           |
|                       | 12 – 23   | 5 – 9    | Preset 01                             |
|                       | 24 – 35   | 10 – 14  | Preset 02                             |
|                       | 36 – 47   | 15 – 18  | Preset 03                             |
|                       | 48 – 59   | 19 – 23  | Preset 04                             |
|                       | 60 – 71   | 24 – 28  | Preset 05                             |
|                       | 72 – 83   | 29 – 33  | Preset 06                             |
|                       | 84 – 95   | 34 – 37  | Preset 07                             |
|                       | 96 – 107  | 38 – 42  | Preset 08                             |
|                       | 108 – 119 | 43 – 47  | Preset 09                             |
|                       | 120 – 131 | 48 – 51  | Preset 10                             |
|                       |           |          | <b>Factory Presets</b>                |
|                       | 132 – 143 | 52 – 56  | Preset 01 (2,900 K, 0 +/- GN)         |
|                       | 144 – 155 | 57 – 61  | Preset 02 (3,200 K, 0 +/- GN)         |
|                       | 156 – 167 | 62 – 65  | Preset 03 (5,600 K, 0 +/- GN)         |
|                       | 168 – 179 | 66 – 70  | Preset 04 (6,500 K, 0 +/- GN)         |
|                       | 180 – 191 | 71 – 75  | Preset 05 (120° Hue, 100% Saturation) |
|                       | 192 – 203 | 76 – 80  | Preset 06 (240° Hue, 100% Saturation) |
|                       | 204 – 215 | 81 – 84  | Preset 07 (Rosco 3408, 5,600 K Base)  |
|                       | 216 – 227 | 85 – 89  | Preset 08 (Lee 187, 3,200 K Base)     |
|                       | 228 – 239 | 90 – 94  | Preset 09 (Rosco 3152, 3,200 K Base)  |
|                       | 240 – 255 | 95 – 100 | Preset 10 (Lee 162, 3,200 K Base)     |

## 2.4 Extended Color Control

When Extended Color Control is activated via the DMX Settings menu 8 additional channels for 8-bit DMX modes (accordingly 16 channels for 16-bit and coarse / fine DMX modes) are applied to the end of each DMX personality.

### Extended Color Control – Parameter Allocation

| Parameter             | Channel Layout |                          |           |
|-----------------------|----------------|--------------------------|-----------|
|                       | 8 bit          | 16 bit and Coarse / Fine |           |
|                       |                | Hi / Coarse              | Lo / Fine |
| Warmer / Cooler       | I + 1          | I + 1                    | I + 2     |
| Saturate / Desaturate | I + 2          | I + 3                    | I + 4     |
| + Red / - Red         | I + 3          | I + 5                    | I + 6     |
| + Green / - Green     | I + 4          | I + 7                    | I + 8     |
| + Blue / - Blue       | I + 5          | I + 9                    | I + 10    |
| + Cyan / - Cyan       | I + 6          | I + 11                   | I + 12    |
| + Magenta / - Magenta | I + 7          | I + 13                   | I + 14    |
| + Yellow / - Yellow   | I + 8          | I + 15                   | I + 16    |

### Extended Color Control – DMX Value Allocation

| Parameter | Value 8 bit | Value 16 bit    | Percent  | Function                 |
|-----------|-------------|-----------------|----------|--------------------------|
| any       | 0 – 19      | 0 – 4.883       | 0 – 7    | Neutral                  |
|           | 20 – 127    | 4.884 – 32.767  | 8 – 50   | –1.000 → 0.000 (neutral) |
|           | 128 – 147   | 32.768 – 37.779 | 51 – 57  | Neutral                  |
|           | 148 – 255   | 37.780 – 65.535 | 58 – 100 | 0.000 (neutral) → +1.000 |

## 2.5 Mode 1: CCT & RGBW 8 bit

| DMX Cannel                                                                                 | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>2</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Color Temperature CCT</b><br>2.800 K → 10.000 K                                                                                                                                                                                     |
| <b>3</b>                                                                                   | 0 - 10<br>11 - 20<br>21 - 119<br>120 - 145<br>146 - 244<br>245 - 255             | 0 - 4<br>5 - 8<br>9 - 47<br>48 - 57<br>58 - 96<br>97 - 100              | <b>Green / Magenta Point</b><br>Neutral / no effect<br>Full minus green<br>–99% → –1%<br>Neutral / no effect<br>1% → 99%<br>Full plus green                                                                                            |
| <b>4</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Cross Fade to Color</b><br>White → RGBW color<br><i>ONLY IF in calibrated mode, if X-fade to color is 100%.</i>                                                                                                                     |
| <b>5</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity red</b><br>0% → 100%                                                                                                                                                                                                      |
| <b>6</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity green</b><br>0% → 100%                                                                                                                                                                                                    |
| <b>7</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity blue</b><br>0% → 100%                                                                                                                                                                                                     |
| <b>8</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity white</b><br><i>(While in calibrated RGBW, white point CCT and +/- green adjustments via channels 2 and 3)</i><br>0% → 100%                                                                                               |
| <b>9</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>10</b>                                                                                  | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>11</b>                                                                                  | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>12</b>                                                                                  | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.6 Mode 2: CCT 8 bit

| DMX Channel                                                                                | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>2</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Color Temperature CCT</b><br>2.800 K → 10.000 K                                                                                                                                                                                     |
| <b>3</b>                                                                                   | 0 - 10<br>11 - 20<br>21 - 119<br>120 - 145<br>146 - 244<br>245 - 255             | 0 - 4<br>5 - 8<br>9 - 47<br>48 - 57<br>58 - 96<br>97 - 100              | <b>Green / Magenta Point</b><br>Neutral / no effect<br>Full minus green<br>–99% → –1%<br>Neutral / no effect<br>1% → 99%<br>Full plus green                                                                                            |
| <b>4</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>5</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>6</b>                                                                                   | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>7</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.7 Mode 3: CCT & HSI 8 bit

| DMX Cannel                                                                                 | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>2</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Color Temperature CCT</b><br>2.800 K → 10.000 K                                                                                                                                                                                     |
| <b>3</b>                                                                                   | 0 - 10<br>11 - 20<br>21 - 119<br>120 - 145<br>146 - 244<br>245 - 255             | 0 - 4<br>5 - 8<br>9 - 47<br>48 - 57<br>58 - 96<br>97 - 100              | <b>Green / Magenta Point</b><br>Neutral / no effect<br>Full minus green<br>–99% → –1%<br>Neutral / no effect<br>1% → 99%<br>Full plus green                                                                                            |
| <b>4</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Cross Fade to Color</b><br>White → HSI color                                                                                                                                                                                        |
| <b>5</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Hue</b><br>0° → 360°                                                                                                                                                                                                                |
| <b>6</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Saturation</b><br>No saturation (white) → full saturation                                                                                                                                                                           |
| <b>7</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>8</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>9</b>                                                                                   | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>10</b>                                                                                  | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.8 Mode 4: RGBW 8 bit

| DMX Channel                                                                                | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>2</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity red</b><br>0% → 100%                                                                                                                                                                                                      |
| <b>3</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity green</b><br>0% → 100%                                                                                                                                                                                                    |
| <b>4</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity blue</b><br>0% → 100%                                                                                                                                                                                                     |
| <b>5</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity white</b><br>0% → 100%                                                                                                                                                                                                    |
| <b>6</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>7</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>8</b>                                                                                   | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>9</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.9 Mode 5: HSI 8 bit

| DMX Cannel                                                                                 | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>2</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Hue</b><br>0° → 360°                                                                                                                                                                                                                |
| <b>3</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Saturation</b><br>No saturation (white) → full saturation                                                                                                                                                                           |
| <b>4</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>5</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>6</b>                                                                                   | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>7</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.10 Mode 6: CCT & RGBW 16 bit

| DMX Channel |    | Value                                                                                                 | Percent                                                                 | Function                                                                                                                                                                                                                               |
|-------------|----|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HI          | LO |                                                                                                       |                                                                         |                                                                                                                                                                                                                                        |
| 1           | 2  | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| 3           | 4  | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Color Temperature CCT</b><br>2.800 K → 10.000 K                                                                                                                                                                                     |
| 5           | 6  | 0 – 4.587<br>4.588 – 9.931<br>9.932 – 30.044<br>30.045 – 40.077<br>40.078 – 60.190<br>60.191 – 65.535 | 0 – 7<br>8 – 15<br>16 – 46<br>47 – 61<br>62 – 92<br>93 – 100            | <b>Green / Magenta Point</b><br>Neutral / no effect<br>Full minus green<br>–99% → –1%<br>Neutral / no effect<br>1% → 99%<br>Full plus green                                                                                            |
| 7           | 8  | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Cross Fade to Color</b><br>White → RGBW color<br><i>ONLY IF in calibrated mode, if X-fade to color is 100%.</i>                                                                                                                     |
| 9           | 10 | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Intensity red</b><br>0% → 100%                                                                                                                                                                                                      |
| 11          | 12 | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Intensity green</b><br>0% → 100%                                                                                                                                                                                                    |
| 13          | 14 | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Intensity blue</b><br>0% → 100%                                                                                                                                                                                                     |
| 15          | 16 | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Intensity white</b><br><i>(While in calibrated RGBW, white point CCT and +/- green adjustments via channels 3/4 and 5/6)</i><br>0% → 100%                                                                                           |
| 17          |    | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255                      | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| 18          |    | 0 – 255                                                                                               | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| 19          |    | 0 – 19<br>20 - 255                                                                                    | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| 20          |    | 0 – 255                                                                                               | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.11 Mode 7: CCT 16 bit

| DMX Cannel |                                                                                | Value                                                                                                 | Percent                                                      | Function                                                                                                                                    |
|------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| HI         | LO                                                                             |                                                                                                       |                                                              |                                                                                                                                             |
| 1          | 2                                                                              | 0 – 65.535                                                                                            | 0 – 100                                                      | <b>Master Dimmer</b><br>Closed → open                                                                                                       |
| 3          | 4                                                                              | 0 – 65.535                                                                                            | 0 – 100                                                      | <b>Color Temperature CCT</b><br>2.800 K → 10.000 K                                                                                          |
| 5          | 6                                                                              | 0 – 4.587<br>4.588 – 9.931<br>9.932 – 30.044<br>30.045 – 40.077<br>40.078 – 60.190<br>60.191 – 65.535 | 0 – 7<br>8 – 15<br>16 – 46<br>47 – 61<br>62 – 92<br>93 – 100 | <b>Green / Magenta Point</b><br>Neutral / no effect<br>Full minus green<br>–99% → –1%<br>Neutral / no effect<br>1% → 99%<br>Full plus green |
| 7          | <i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> |                                                                                                       | 0 – 3                                                        | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu                                                                            |
|            |                                                                                |                                                                                                       | 4 – 22                                                       | Quiet, Fan speed fixed                                                                                                                      |
|            |                                                                                |                                                                                                       | 23 – 41                                                      | Variable, Fan speed variable                                                                                                                |
|            |                                                                                |                                                                                                       | 42 – 60                                                      | High Temp, Fan speed fixed                                                                                                                  |
|            |                                                                                |                                                                                                       | 61 – 78                                                      | Use <i>Fan Mode Setting</i> of device menu                                                                                                  |
|            |                                                                                |                                                                                                       | 79 – 97                                                      | Fan at Full Speed                                                                                                                           |
|            |                                                                                |                                                                                                       | 99 - 100                                                     | Fan Off                                                                                                                                     |
| 8          |                                                                                | 0 – 255                                                                                               | 0 – 100                                                      | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                   |
| 9          |                                                                                | 0 – 19<br>20 - 255                                                                                    | 0 – 7<br>8 - 100                                             | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                             |
| 10         |                                                                                | 0 – 255                                                                                               | 0 – 100                                                      | <b>No function</b>                                                                                                                          |

## 2.12 Mode 8: CCT & HSI 16 bit

| DMX Channel |                                                                                | Value                                                                                                 | Percent                                                      | Function                                                                                                                                    |
|-------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| HI          | LO                                                                             |                                                                                                       |                                                              |                                                                                                                                             |
| 1           | 2                                                                              | 0 – 65.535                                                                                            | 0 – 100                                                      | <b>Master Dimmer</b><br>Closed → open                                                                                                       |
| 3           | 4                                                                              | 0 – 65.535                                                                                            | 0 – 100                                                      | <b>Color Temperature CCT</b><br>2.800 K → 10.000 K                                                                                          |
| 5           | 6                                                                              | 0 – 4.587<br>4.588 – 9.931<br>9.932 – 30.044<br>30.045 – 40.077<br>40.078 – 60.190<br>60.191 – 65.535 | 0 – 7<br>8 – 15<br>16 – 46<br>47 – 61<br>62 – 92<br>93 – 100 | <b>Green / Magenta Point</b><br>Neutral / no effect<br>Full minus green<br>–99% → –1%<br>Neutral / no effect<br>1% → 99%<br>Full plus green |
| 7           | 8                                                                              | 0 – 65.535                                                                                            | 0 – 100                                                      | <b>Cross Fade to Color</b><br>White → HSI color                                                                                             |
| 9           | 10                                                                             | 0 – 65.535                                                                                            | 0 – 100                                                      | <b>Hue</b><br>0° → 360°                                                                                                                     |
| 11          | 12                                                                             | 0 – 65.535                                                                                            | 0 – 100                                                      | <b>Saturation</b><br>No saturation (white) → full saturation                                                                                |
| 13          | <i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9                                                                                                 | 0 – 3                                                        | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu                                                                            |
|             |                                                                                | 10 – 57                                                                                               | 4 – 22                                                       | Quiet, Fan speed fixed                                                                                                                      |
|             |                                                                                | 58 – 105                                                                                              | 23 – 41                                                      | Variable, Fan speed variable                                                                                                                |
|             |                                                                                | 106 – 153                                                                                             | 42 – 60                                                      | High Temp, Fan speed fixed                                                                                                                  |
|             |                                                                                | 154 – 201                                                                                             | 61 – 78                                                      | Use <i>Fan Mode Setting</i> of device menu                                                                                                  |
|             |                                                                                | 202 – 249                                                                                             | 79 – 97                                                      | Fan at Full Speed                                                                                                                           |
|             |                                                                                | 250 – 255                                                                                             | 99 – 100                                                     | Fan Off                                                                                                                                     |
| 14          |                                                                                | 0 – 255                                                                                               | 0 – 100                                                      | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                   |
| 15          |                                                                                | 0 – 19<br>20 – 255                                                                                    | 0 – 7<br>8 – 100                                             | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                             |
| 16          |                                                                                | 0 – 255                                                                                               | 0 – 100                                                      | <b>No function</b>                                                                                                                          |

## 2.13 Mode 9: RGBW 16 bit

| DMX Cannel                                                                                  |    | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HI                                                                                          | LO |                                                                                  |                                                                         |                                                                                                                                                                                                                                        |
| 1                                                                                           | 2  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| 3                                                                                           | 4  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Intensity red</b><br>0% → 100%                                                                                                                                                                                                      |
| 5                                                                                           | 6  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Intensity green</b><br>0% → 100%                                                                                                                                                                                                    |
| 7                                                                                           | 8  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Intensity blue</b><br>0% → 100%                                                                                                                                                                                                     |
| 9                                                                                           | 10 | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Intensity white</b><br>0% → 100%                                                                                                                                                                                                    |
| <b>11</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> |    | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>12</b>                                                                                   |    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>13</b>                                                                                   |    | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>14</b>                                                                                   |    | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.14 Mode 10: HSI 16 bit

| DMX Channel                                                                         |    | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HI                                                                                  | LO |                                                                                  |                                                                         |                                                                                                                                                                                                                                        |
| 1                                                                                   | 2  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| 3                                                                                   | 4  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Hue</b><br>0° → 360°                                                                                                                                                                                                                |
| 5                                                                                   | 6  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Saturation</b><br>No saturation (white) → full saturation                                                                                                                                                                           |
| 7<br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> |    | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 – 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 – 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| 8                                                                                   |    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| 9                                                                                   |    | 0 – 19<br>20 – 255                                                               | 0 – 7<br>8 – 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| 10                                                                                  |    | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.15 Mode 11: CCT & RGBW Coarse / Fine

| DMX Cannel                                                                                      | Value     | Percent  | Function                                                                                                         |
|-------------------------------------------------------------------------------------------------|-----------|----------|------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                        |           |          | <b>Master Dimmer coarse</b>                                                                                      |
|                                                                                                 | 0 – 255   | 0 – 100  | Closed → open                                                                                                    |
| <b>2</b>                                                                                        | 0 - 255   | 0 – 100  | <b>Master Dimmer fine</b>                                                                                        |
| <b>3</b>                                                                                        |           |          | <b>Color Temperature CCT coarse</b>                                                                              |
|                                                                                                 | 0 – 255   | 0 – 100  | 2.800 K → 10.000 K                                                                                               |
| <b>4</b>                                                                                        | 0 - 255   | 0 – 100  | <b>Color Temperature CCT fine</b>                                                                                |
| <b>5</b>                                                                                        |           |          | <b>Green / Magenta Point</b>                                                                                     |
|                                                                                                 | 0 - 10    | 0 - 4    | Neutral / no effect                                                                                              |
|                                                                                                 | 11 - 20   | 5 - 8    | Full minus green                                                                                                 |
|                                                                                                 | 21 - 119  | 9 - 47   | –99% → –1%                                                                                                       |
|                                                                                                 | 120 - 145 | 48 - 57  | Neutral / no effect                                                                                              |
|                                                                                                 | 146 - 244 | 58 - 96  | 1% → 99%                                                                                                         |
|                                                                                                 | 245 - 255 | 97 - 100 | Full plus green                                                                                                  |
| <b>6</b>                                                                                        |           |          | <b>Cross Fade to Color</b>                                                                                       |
|                                                                                                 | 0 – 255   | 0 – 100  | White → RGBW color<br><i>ONLY IF in calibrated mode, if X-fade to color is 100%.</i>                             |
| <b>7</b>                                                                                        |           |          | <b>Intensity red coarse</b>                                                                                      |
|                                                                                                 | 0 – 255   | 0 – 100  | 0% → 100%                                                                                                        |
| <b>8</b>                                                                                        | 0 - 255   | 0 – 100  | <b>Intensity red fine</b>                                                                                        |
| <b>9</b>                                                                                        |           |          | <b>Intensity green coarse</b>                                                                                    |
|                                                                                                 | 0 – 255   | 0 – 100  | 0% → 100%                                                                                                        |
| <b>10</b>                                                                                       | 0 - 255   | 0 – 100  | <b>Intensity green fine</b>                                                                                      |
| <b>11</b>                                                                                       |           |          | <b>Intensity blue coarse</b>                                                                                     |
|                                                                                                 | 0 – 255   | 0 – 100  | 0% → 100%                                                                                                        |
| <b>12</b>                                                                                       | 0 - 255   | 0 – 100  | <b>Intensity blue fine</b>                                                                                       |
| <b>13</b>                                                                                       |           |          | <b>Intensity white coarse</b>                                                                                    |
|                                                                                                 | 0 – 255   | 0 – 100  | <i>(While in calibrated RGBW, white point CCT and +/- green adjustments via channels 3/4 and 5)</i><br>0% → 100% |
| <b>14</b>                                                                                       | 0 - 255   | 0 – 100  | <b>Intensity white fine</b>                                                                                      |
| <b>15</b><br><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9     | 0 – 3    | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu                                                 |
|                                                                                                 | 10 – 57   | 4 – 22   | Quiet, Fan speed fixed                                                                                           |
|                                                                                                 | 58 – 105  | 23 – 41  | Variable, Fan speed variable                                                                                     |
|                                                                                                 | 106 – 153 | 42 – 60  | High Temp, Fan speed fixed                                                                                       |
|                                                                                                 | 154 – 201 | 61 – 78  | Use <i>Fan Mode Setting</i> of device menu                                                                       |
|                                                                                                 | 202 – 249 | 79 – 97  | Fan at Full Speed                                                                                                |
|                                                                                                 | 250 - 255 | 99 - 100 | Fan Off                                                                                                          |
|                                                                                                 |           |          |                                                                                                                  |
| <b>16</b>                                                                                       |           |          | <b>Preset</b>                                                                                                    |
|                                                                                                 | 0 – 255   | 0 – 100  | See Preset Channel [► 7]                                                                                         |
| <b>17</b>                                                                                       |           |          | <b>Light Strobe Rate</b>                                                                                         |
|                                                                                                 | 0 – 19    | 0 – 7    | No effect                                                                                                        |
|                                                                                                 | 20 - 255  | 8 - 100  | 1 flash / second → 25 flashes / second                                                                           |
| <b>18</b>                                                                                       | 0 – 255   | 0 – 100  | <b>No function</b>                                                                                               |

## 2.16 Mode 12: CCT Coarse / Fine

| DMX Channel                                                                                | Value              | Percent          | Function                                            |
|--------------------------------------------------------------------------------------------|--------------------|------------------|-----------------------------------------------------|
| <b>1</b>                                                                                   |                    |                  | <b>Master Dimmer coarse</b>                         |
|                                                                                            | 0 – 255            | 0 – 100          | Closed → open                                       |
| <b>2</b>                                                                                   | 0 - 255            | 0 – 100          | <b>Master Dimmer fine</b>                           |
| <b>3</b>                                                                                   |                    |                  | <b>Color Temperature CCT coarse</b>                 |
|                                                                                            | 0 – 255            | 0 – 100          | 2.800 K → 10.000 K                                  |
| <b>4</b>                                                                                   | 0 - 255            | 0 – 100          | <b>Color Temperature CCT fine</b>                   |
| <b>5</b>                                                                                   |                    |                  | <b>Green / Magenta Point</b>                        |
|                                                                                            | 0 - 10             | 0 - 4            | Neutral / no effect                                 |
|                                                                                            | 11 - 20            | 5 - 8            | Full minus green                                    |
|                                                                                            | 21 - 119           | 9 - 47           | –99% → –1%                                          |
|                                                                                            | 120 - 145          | 48 - 57          | Neutral / no effect                                 |
|                                                                                            | 146 - 244          | 58 - 96          | 1% → 99%                                            |
|                                                                                            | 245 - 255          | 97 - 100         | Full plus green                                     |
| <b>6</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> |                    |                  | <b>Fan Control</b>                                  |
|                                                                                            | 0 – 9              | 0 – 3            | Use <i>Fan Mode Setting</i> of device menu          |
|                                                                                            | 10 – 57            | 4 – 22           | Quiet, Fan speed fixed                              |
|                                                                                            | 58 – 105           | 23 – 41          | Variable, Fan speed variable                        |
|                                                                                            | 106 – 153          | 42 – 60          | High Temp, Fan speed fixed                          |
|                                                                                            | 154 – 201          | 61 – 78          | Use <i>Fan Mode Setting</i> of device menu          |
|                                                                                            | 202 – 249          | 79 – 97          | Fan at Full Speed                                   |
|                                                                                            | 250 - 255          | 99 - 100         | Fan Off                                             |
| <b>7</b>                                                                                   |                    |                  | <b>Preset</b>                                       |
|                                                                                            | 0 – 255            | 0 – 100          | See Preset Channel [► 7]                            |
| <b>8</b>                                                                                   |                    |                  | <b>Light Strobe Rate</b>                            |
|                                                                                            | 0 – 19<br>20 - 255 | 0 – 7<br>8 - 100 | No effect<br>1 flash / second → 25 flashes / second |
| <b>9</b>                                                                                   | 0 – 255            | 0 – 100          | <b>No function</b>                                  |

## 2.17 Mode 13: CCT & HSI Coarse / Fine

| DMX Cannel                                                                                  | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer coarse</b><br>Closed → open                                                                                                                                                                                           |
| <b>2</b>                                                                                    | 0 - 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer fine</b>                                                                                                                                                                                                              |
| <b>3</b>                                                                                    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Color Temperature CCT coarse</b><br>2.800 K→ 10.000 K                                                                                                                                                                               |
| <b>4</b>                                                                                    | 0 - 255                                                                          | 0 – 100                                                                 | <b>Color Temperature CCT fine</b>                                                                                                                                                                                                      |
| <b>5</b>                                                                                    | 0 - 10<br>11 - 20<br>21 - 119<br>120 - 145<br>146 - 244<br>245 - 255             | 0 - 4<br>5 - 8<br>9 - 47<br>48 - 57<br>58 - 96<br>97 - 100              | <b>Green / Magenta Point</b><br>Neutral / no effect<br>Full minus green<br>–99% → –1%<br>Neutral / no effect<br>1% → 99%<br>Full plus green                                                                                            |
| <b>6</b>                                                                                    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Cross Fade to Color</b><br>White → RGBW color                                                                                                                                                                                       |
| <b>7</b>                                                                                    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Hue coarse</b><br>0° → 360°                                                                                                                                                                                                         |
| <b>8</b>                                                                                    | 0 - 255                                                                          | 0 – 100                                                                 | <b>Hue fine</b>                                                                                                                                                                                                                        |
| <b>9</b>                                                                                    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Saturation coarse</b><br>No saturation (white) → full saturation                                                                                                                                                                    |
| <b>10</b>                                                                                   | 0 - 255                                                                          | 0 – 100                                                                 | <b>Saturation fine</b>                                                                                                                                                                                                                 |
| <b>11</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>12</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>13</b>                                                                                   | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>14</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.18 Mode 14: RGBW Coarse / Fine

| DMX Cannel                                                                                  | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer coarse</b><br>Closed → open                                                                                                                                                                                           |
| <b>2</b>                                                                                    | 0 - 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer fine</b>                                                                                                                                                                                                              |
| <b>3</b>                                                                                    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity red coarse</b><br>0% → 100%                                                                                                                                                                                               |
| <b>4</b>                                                                                    | 0 - 255                                                                          | 0 – 100                                                                 | <b>Intensity red fine</b>                                                                                                                                                                                                              |
| <b>5</b>                                                                                    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity green coarse</b><br>0% → 100%                                                                                                                                                                                             |
| <b>6</b>                                                                                    | 0 - 255                                                                          | 0 – 100                                                                 | <b>Intensity green fine</b>                                                                                                                                                                                                            |
| <b>7</b>                                                                                    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity blue coarse</b><br>0% → 100%                                                                                                                                                                                              |
| <b>8</b>                                                                                    | 0 - 255                                                                          | 0 – 100                                                                 | <b>Intensity blue fine</b>                                                                                                                                                                                                             |
| <b>9</b>                                                                                    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity white coarse</b><br>0% → 100%                                                                                                                                                                                             |
| <b>10</b>                                                                                   | 0 - 255                                                                          | 0 – 100                                                                 | <b>Intensity white fine</b>                                                                                                                                                                                                            |
| <b>11</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>12</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>13</b>                                                                                   | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>14</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.19 Mode 15: HSI Coarse / Fine

| DMX Cannel                                                                                 | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer coarse</b><br>Closed → open                                                                                                                                                                                           |
| <b>2</b>                                                                                   | 0 - 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer fine</b>                                                                                                                                                                                                              |
| <b>3</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Hue coarse</b><br>0° → 360°                                                                                                                                                                                                         |
| <b>4</b>                                                                                   | 0 - 255                                                                          | 0 – 100                                                                 | <b>Hue fine</b>                                                                                                                                                                                                                        |
| <b>5</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Saturation coarse</b><br>No saturation (white) → full saturation                                                                                                                                                                    |
| <b>6</b>                                                                                   | 0 - 255                                                                          | 0 – 100                                                                 | <b>Saturation fine</b>                                                                                                                                                                                                                 |
| <b>7</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>8</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>9</b>                                                                                   | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>10</b>                                                                                  | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.20 Mode 16: Gel V2 8 bit, Base Channels

| DMX Channel | Value     | Percent  | Function                                                                                                                                                            |
|-------------|-----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>    | 0 – 255   | 0 – 100  | <b>Master Dimmer</b><br>Closed → open                                                                                                                               |
|             |           |          |                                                                                                                                                                     |
| <b>2</b>    | 0 – 127   | 0 – 50   | <b>Gel 1, CCT Selection</b><br>3,200 K                                                                                                                              |
|             | 128 - 255 | 51 - 100 | 5,600 K                                                                                                                                                             |
| <b>3</b>    | 0 – 127   | 0 – 50   | <b>Gel 1, Color Matching Selection</b><br>Best Color<br><i>Note: Color quality optimized</i>                                                                        |
|             | 128 – 170 | 51 – 100 | Brightest<br><i>Note: Color brightness optimized</i>                                                                                                                |
|             | 171 - 255 | 67 - 100 | No Color Gel                                                                                                                                                        |
| <b>4</b>    | 0 – 127   | 0 – 50   | <b>Gel 1, Brand</b><br>Choose category on channel 5, gel on channel 6<br><b>Rosco</b>                                                                               |
|             | 128 - 255 | 51 - 100 | <b>LEE filters</b>                                                                                                                                                  |
| <b>5</b>    | 0 – 50    | 0 – 20   | <b>Gel 1, Category (Brand Dependent)</b><br>Choose Gel brand on channel 4<br>Category 1, Rosco, Color Correction [► 28]<br>Category 1, LEE, Color Correction [► 33] |
|             | 51 – 101  | 21 – 39  | Category 2, Rosco, CalColor [► 29]<br>Category 2, LEE, Color Filters [► 34]                                                                                         |
|             | 102 – 152 | 40 – 60  | Category 3, Rosco, Storaro Selection [► 30]<br>Category 3, LEE, 600 Series [► 37]                                                                                   |
|             | 153 – 203 | 61 – 80  | Category 4, Rosco, Cinelux [► 31]<br>Category 4, LEE, Cosmetic Filters [► 37]                                                                                       |
|             | 204 – 255 | 81 – 100 | Category 5, Rosco, None<br>Category 5, LEE, 700 Series [► 38]                                                                                                       |
|             |           |          |                                                                                                                                                                     |
| <b>6</b>    | 0 - 255   | 0 - 100  | <b>Gel 1</b><br>Please see tables below                                                                                                                             |
| <b>7</b>    | 0 - 255   | 0 - 100  | <b>Crossfade to Gel</b><br>Gel 1 → Gel 2                                                                                                                            |
| <b>8</b>    | 0 – 127   | 0 – 50   | <b>Gel 2, CCT Selection</b><br>3,200 K                                                                                                                              |
|             | 128 - 255 | 51 - 100 | 5,600 K                                                                                                                                                             |
| <b>9</b>    | 0 – 127   | 0 – 50   | <b>Gel 2, Color Matching Selection</b><br>Best Color<br><i>Note: Color quality optimized</i>                                                                        |
|             | 128 – 170 | 51 – 100 | Brightest<br><i>Note: Color brightness optimized</i>                                                                                                                |
|             | 171 - 255 | 67 - 100 | No Color Gel                                                                                                                                                        |
| <b>10</b>   | 0 – 127   | 0 – 50   | <b>Gel 2, Brand</b><br>Choose category on channel 11, gel on channel 12<br><b>Rosco</b>                                                                             |
|             | 128 - 255 | 51 - 100 | <b>LEE filters</b>                                                                                                                                                  |

| DMX Cannel                                                                                  | Value     | Percent  | Function                                                                               |
|---------------------------------------------------------------------------------------------|-----------|----------|----------------------------------------------------------------------------------------|
| <b>11</b>                                                                                   |           |          | <b>Gel 2, Category (Brand Dependent)</b><br><i>Choose Gel brand on channel 10</i>      |
|                                                                                             | 0 – 50    | 0 – 20   | Category 1, Rosco, Color Correction [► 28]<br>Category 1, LEE, Color Correction [► 33] |
|                                                                                             | 51 – 101  | 21 – 39  | Category 2, Rosco, CalColor [► 29]<br>Category 2, LEE, Color Filters [► 34]            |
|                                                                                             | 102 – 152 | 40 – 60  | Category 3, Rosco, Storaro Selection [► 30]<br>Category 3, LEE, 600 Series [► 37]      |
|                                                                                             | 153 – 203 | 61 – 80  | Category 4, Rosco, Cinelux [► 31]<br>Category 4, LEE, Cosmetic Filters [► 37]          |
|                                                                                             | 204 – 255 | 81 – 100 | Category 5, Rosco, None<br>Category 5, LEE, 700 Series [► 38]                          |
| <b>12</b>                                                                                   | 0 - 255   | 0 - 100  | <b>Gel 2</b><br>Please see tables below                                                |
| <b>13</b>                                                                                   |           |          | <b>Gel Transition Type</b>                                                             |
|                                                                                             | 0 – 51    | 0 – 20   | Direct                                                                                 |
|                                                                                             | 52 – 102  | 21 – 40  | Through White Point                                                                    |
|                                                                                             | 103 – 153 | 41 – 60  | Through Black Point                                                                    |
|                                                                                             | 154 – 204 | 61 – 79  | Over White Point                                                                       |
|                                                                                             | 205 – 255 | 80 – 100 | Under White point                                                                      |
| <b>14</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9     | 0 – 3    | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu                       |
|                                                                                             | 10 – 57   | 4 – 22   | Quiet, Fan speed fixed                                                                 |
|                                                                                             | 58 – 105  | 23 – 41  | Variable, Fan speed variable                                                           |
|                                                                                             | 106 – 153 | 42 – 60  | High Temp, Fan speed fixed                                                             |
|                                                                                             | 154 – 201 | 61 – 78  | Use <i>Fan Mode Setting</i> of device menu                                             |
|                                                                                             | 202 – 249 | 79 – 97  | Fan at Full Speed                                                                      |
|                                                                                             | 250 - 255 | 99 - 100 | Fan Off                                                                                |
| <b>15</b>                                                                                   | 0 – 255   | 0 – 100  | <b>Preset</b><br>See Preset Channel [► 7]                                              |
| <b>16</b>                                                                                   | 0 – 19    | 0 – 7    | <b>Light Strobe Rate</b><br>No effect                                                  |
|                                                                                             | 20 - 255  | 8 - 100  | 1 flash / second → 25 flashes / second                                                 |
| <b>17</b>                                                                                   | 0 – 255   | 0 – 100  | <b>No function</b>                                                                     |

## 2.21 Mode 17: Gel V2 16 bit, Base Channels

| DMX Channel |    | Value                                                     | Percent                                             | Function                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|----|-----------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HI          | LO |                                                           |                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 1           | 2  | 0 – 65.535                                                | 0 – 100                                             | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3           |    | 0 – 127<br>128 - 255                                      | 0 – 50<br>51 - 100                                  | <b>Gel 1, CCT Selection</b><br>3,200 K<br>5,600 K                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4           |    | 0 – 127<br>128 – 170<br>171 - 255                         | 0 – 50<br>51 – 100<br>67 - 100                      | <b>Gel 1, Color Matching Selection</b><br>Best Color<br><i>Note: Color quality optimized</i><br>Brightest<br><i>Note: Color brightness optimized</i><br>No Color Gel                                                                                                                                                                                                                                                                                                                      |
| 5           |    | 0 – 127<br>128 - 255                                      | 0 – 50<br>51 - 100                                  | <b>Gel 1, Brand</b><br>Choose category on channel 6, gel on channel 7<br><b>Rosco</b><br><b>LEE filters</b>                                                                                                                                                                                                                                                                                                                                                                               |
| 6           |    | 0 – 50<br>51 – 101<br>102 – 152<br>153 – 203<br>204 – 255 | 0 – 20<br>21 – 39<br>40 – 60<br>61 – 80<br>81 – 100 | <b>Gel 1, Category (Brand Dependent)</b><br>Choose Gel brand on channel 5<br>Category 1, Rosco, Color Correction [► 28]<br>Category 1, LEE, Color Correction [► 33]<br>Category 2, Rosco, CalColor [► 29]<br>Category 2, LEE, Color Filters [► 34]<br>Category 3, Rosco, Storaro Selection [► 30]<br>Category 3, LEE, 600 Series [► 37]<br>Category 4, Rosco, Cinelux [► 31]<br>Category 4, LEE, Cosmetic Filters [► 37]<br>Category 5, Rosco, None<br>Category 5, LEE, 700 Series [► 38] |
| 7           |    | 0 - 255                                                   | 0 - 100                                             | <b>Gel 1</b><br>Please see tables below                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 8           | 9  | 0 – 65.535                                                | 0 - 100                                             | <b>Crossfade to Gel</b><br>Gel 1 → Gel 2                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 10          |    | 0 – 127<br>128 - 255                                      | 0 – 50<br>51 - 100                                  | <b>Gel 2, CCT Selection</b><br>3,200 K<br>5,600 K                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 11          |    | 0 – 127<br>128 – 170<br>171 - 255                         | 0 – 50<br>51 – 100<br>67 - 100                      | <b>Gel 2, Color Matching Selection</b><br>Best Color<br><i>Note: Color quality optimized</i><br>Brightest<br><i>Note: Color brightness optimized</i><br>No Color Gel                                                                                                                                                                                                                                                                                                                      |
| 12          |    | 0 – 127<br>128 - 255                                      | 0 – 50<br>51 - 100                                  | <b>Gel 2, Brand</b><br>Choose category on channel 13, gel on channel 14<br><b>Rosco</b><br><b>LEE filters</b>                                                                                                                                                                                                                                                                                                                                                                             |

| DMX Cannel                                                                                  | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>13</b>                                                                                   |                                                                                  |                                                                         | <b>Gel 2, Category (Brand Dependent)</b><br><i>Choose Gel brand on channel 12</i>                                                                                                                                                      |
|                                                                                             | 0 – 50                                                                           | 0 – 20                                                                  | Category 1, Rosco, Color Correction [► 28]<br>Category 1, LEE, Color Correction [► 33]                                                                                                                                                 |
|                                                                                             | 51 – 101                                                                         | 21 – 39                                                                 | Category 2, Rosco, CalColor [► 29]<br>Category 2, LEE, Color Filters [► 34]                                                                                                                                                            |
|                                                                                             | 102 – 152                                                                        | 40 – 60                                                                 | Category 3, Rosco, Storaro Selection [► 30]<br>Category 3, LEE, 600 Series [► 37]                                                                                                                                                      |
|                                                                                             | 153 – 203                                                                        | 61 – 80                                                                 | Category 4, Rosco, Cinelux [► 31]<br>Category 4, LEE, Cosmetic Filters [► 37]                                                                                                                                                          |
|                                                                                             | 204 – 255                                                                        | 81 – 100                                                                | Category 5, Rosco, None<br>Category 5, LEE, 700 Series [► 38]                                                                                                                                                                          |
| <b>14</b>                                                                                   | 0 - 255                                                                          | 0 - 100                                                                 | <b>Gel 2</b><br>Please see tables below                                                                                                                                                                                                |
| <b>15</b>                                                                                   |                                                                                  |                                                                         | <b>Gel Transition Type</b>                                                                                                                                                                                                             |
|                                                                                             | 0 – 51                                                                           | 0 – 20                                                                  | Direct                                                                                                                                                                                                                                 |
|                                                                                             | 52 – 102                                                                         | 21 – 40                                                                 | Through White Point                                                                                                                                                                                                                    |
|                                                                                             | 103 – 153                                                                        | 41 – 60                                                                 | Through Black Point                                                                                                                                                                                                                    |
|                                                                                             | 154 – 204                                                                        | 61 – 79                                                                 | Over White Point                                                                                                                                                                                                                       |
|                                                                                             | 205 – 255                                                                        | 80 – 100                                                                | Under White point                                                                                                                                                                                                                      |
| <b>16</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>17</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>18</b>                                                                                   | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>19</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.22 Modes 16 and 17: Gel V2 8 bit / 16 bit. Gel selection channel

### 2.22.1 Category 1, Rosco, Color Correction

| DMX Channel                                                                           | Value    | Gel Name         | Gel Number         |
|---------------------------------------------------------------------------------------|----------|------------------|--------------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 0 – 1    | Full CTB         | 3202               |
|                                                                                       | 2 – 3    | 3/4 CTB          | 3203               |
|                                                                                       | 4 – 5    | 1/2 CTB          | 3204               |
|                                                                                       | 6 – 7    | 1/3 CTB          | 3206               |
|                                                                                       | 8 – 9    | 1/4 CTB          | 3208               |
|                                                                                       | 10 – 11  | 1/8 CTB          | 3216               |
|                                                                                       | 12 – 13  | Double CTB       | 3220               |
|                                                                                       | 14 – 15  | Full CTO         | 3407               |
|                                                                                       | 16 – 17  | 3/4 CTO          | 3411               |
|                                                                                       | 18 – 19  | 1/2 CTO          | 3408               |
|                                                                                       | 20 – 21  | 1/4 CTO          | 3409               |
|                                                                                       | 22 – 23  | 1/8 CTO          | 3410               |
|                                                                                       | 24 – 25  | Double CTO       | 3420               |
|                                                                                       | 26 – 27  | Full CTS         | 3441               |
|                                                                                       | 28 – 29  | 1/2 CTS          | 3442               |
|                                                                                       | 30 – 31  | 1/4 CTS          | 3443               |
|                                                                                       | 32 – 33  | 1/8 CTS          | 3444               |
|                                                                                       | 34 – 35  | Full Plusgreen   | 3304               |
|                                                                                       | 36 – 37  | 1/2 Plusgreen    | 3315               |
|                                                                                       | 38 – 39  | 1/4 Plusgreen    | 3316               |
|                                                                                       | 40 – 41  | 1/8 Plusgreen    | 3317               |
|                                                                                       | 42 – 43  | Full Minusgreen  | 3308               |
|                                                                                       | 44 – 45  | 3/4 Minusgreen   | 3309               |
|                                                                                       | 46 – 47  | 1/2 Minusgreen   | 3313               |
|                                                                                       | 48 – 49  | 1/4 Minusgreen   | 3314               |
|                                                                                       | 50 – 51  | 1/8 Minusgreen   | 3318               |
|                                                                                       | 52 – 53  | Fluorofilter     | 3310               |
|                                                                                       | 54 – 55  | Industrial Vapor | 3150               |
|                                                                                       | 56 – 57  | Urban Vapor      | 3152               |
|                                                                                       | 58 – 59  | Tough Y-1        | 3107               |
|                                                                                       | 60 – 61  | Tough MT 54      | 3134               |
|                                                                                       | 62 – 63  | Tough MTY        | 3106               |
|                                                                                       | 64 – 65  | Tough MT2        | 3102               |
|                                                                                       | 66 – 255 |                  | <b>No function</b> |

### 2.22.2 Category 2, Rosco, CalColor

| DMX Channel                                                                           | Value    | Gel Name    | Gel Number         |
|---------------------------------------------------------------------------------------|----------|-------------|--------------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 0 – 1    | 15 Blue     | 4215               |
|                                                                                       | 2 – 3    | 30 Blue     | 4230               |
|                                                                                       | 4 – 5    | 60 Blue     | 4260               |
|                                                                                       | 6 – 7    | 90 Blue     | 4290               |
|                                                                                       | 8 – 9    | 7 Cyan      | 4307               |
|                                                                                       | 10 – 11  | 15 Cyan     | 4315               |
|                                                                                       | 12 – 13  | 30 Cyan     | 4330               |
|                                                                                       | 14 – 15  | 60 Cyan     | 4360               |
|                                                                                       | 16 – 17  | 90 Cyan     | 4390               |
|                                                                                       | 18 – 19  | 15 Green    | 4415               |
|                                                                                       | 20 – 21  | 30 Green    | 4430               |
|                                                                                       | 22 – 23  | 60 Green    | 4460               |
|                                                                                       | 24 – 25  | 90 Green    | 4490               |
|                                                                                       | 26 – 27  | 15 Yellow   | 4515               |
|                                                                                       | 28 – 29  | 30 Yellow   | 4530               |
|                                                                                       | 30 – 31  | 60 Yellow   | 4560               |
|                                                                                       | 32 – 33  | 90 Yellow   | 4590               |
|                                                                                       | 34 – 35  | 15 Red      | 4615               |
|                                                                                       | 36 – 37  | 30 Red      | 4630               |
|                                                                                       | 38 – 39  | 60 Red      | 4660               |
|                                                                                       | 40 – 41  | 90 Red      | 4690               |
|                                                                                       | 42 – 43  | 15 Magenta  | 4715               |
|                                                                                       | 44 – 45  | 30 Magenta  | 4730               |
|                                                                                       | 46 – 47  | 60 Magenta  | 4760               |
|                                                                                       | 48 – 49  | 90 Magenta  | 4790               |
|                                                                                       | 50 – 51  | 15 Pink     | 4815               |
|                                                                                       | 52 – 53  | 30 Pink     | 4830               |
|                                                                                       | 54 – 55  | 60 Pink     | 4860               |
|                                                                                       | 56 – 57  | 90 Pink     | 4890               |
|                                                                                       | 58 – 59  | 15 Lavender | 4915               |
|                                                                                       | 60 – 61  | 30 Lavender | 4930               |
|                                                                                       | 62 – 63  | 60 Lavender | 4960               |
|                                                                                       | 64 – 65  | 90 Lavender | 4990               |
|                                                                                       | 66 – 255 |             | <b>No function</b> |

### 2.22.3 Category 3, Rosco, Storaro Selection

| DMX Channel                                                                           | Value    | Gel Name   | Gel Number         |
|---------------------------------------------------------------------------------------|----------|------------|--------------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 0 – 1    | VS Red     | 2001               |
|                                                                                       | 2 – 3    | VS Orange  | 2202               |
|                                                                                       | 4 – 5    | VS Yellow  | 2003               |
|                                                                                       | 6 – 7    | VS Green   | 2004               |
|                                                                                       | 8 – 9    | VS Cyan    | 2005               |
|                                                                                       | 10 – 11  | VS Azure   | 2006               |
|                                                                                       | 12 – 13  | VS Blue    | 2007               |
|                                                                                       | 14 – 15  | VS Indigo  | 2008               |
|                                                                                       | 16 – 17  | VS Violet  | 2009               |
|                                                                                       | 18 – 19  | VS Magenta | 2010               |
|                                                                                       | 20 – 255 |            | <b>No function</b> |

## 2.22.4 Category 4, Rosco, Cinelux

| DMX Channel                                                                           | Value   | Gel Name           | Gel Number |
|---------------------------------------------------------------------------------------|---------|--------------------|------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 0 – 1   | Bastard Amber      | 2          |
|                                                                                       | 2 – 3   | Pale Bastard Amber | 302        |
|                                                                                       | 4 – 5   | No Color Straw     | 6          |
|                                                                                       | 6 – 7   | Pale Gold          | 8          |
|                                                                                       | 8 – 9   | Daffodil           | 310        |
|                                                                                       | 10 – 11 | Straw              | 12         |
|                                                                                       | 12 – 13 | Light Amber        | 16         |
|                                                                                       | 14 – 15 | Gallo Gold         | 316        |
|                                                                                       | 16 – 17 | Light Flame        | 17         |
|                                                                                       | 18 – 19 | Flame              | 18         |
|                                                                                       | 20 – 21 | Mayan Sun          | 318        |
|                                                                                       | 22 – 23 | Golden Amber       | 21         |
|                                                                                       | 24 – 25 | Soft Golden Amber  | 321        |
|                                                                                       | 26 – 27 | Orange             | 23         |
|                                                                                       | 28 – 29 | Henna Sky          | 325        |
|                                                                                       | 30 – 31 | Light Red          | 26         |
|                                                                                       | 32 – 33 | No Color Pink      | 33         |
|                                                                                       | 34 – 35 | Blush Pink         | 333        |
|                                                                                       | 36 – 37 | Flesh Pink         | 34         |
|                                                                                       | 38 – 39 | Pale Rose Pink     | 37         |
|                                                                                       | 40 – 41 | Salmon             | 41         |
|                                                                                       | 42 – 43 | Deep Salmon        | 42         |
|                                                                                       | 44 – 45 | Middle Rose        | 44         |
|                                                                                       | 46 – 47 | Light Rose Purple  | 47         |
|                                                                                       | 48 – 49 | Surprise Pink      | 51         |
|                                                                                       | 50 – 51 | No Color Blue      | 60         |
|                                                                                       | 52 – 53 | Clearwater         | 360        |
|                                                                                       | 54 – 55 | Booster Blue       | 62         |
|                                                                                       | 56 – 57 | Tipton Blue        | 362        |
|                                                                                       | 58 – 59 | Blue Bell          | 364        |
|                                                                                       | 60 – 61 | Daylight Blue      | 65         |
|                                                                                       | 62 – 63 | Tharon Delft Blue  | 365        |
|                                                                                       | 64 – 65 | Cerulean Blue      | 375        |
|                                                                                       | 66 – 67 | Bermuda Blue       | 376        |
|                                                                                       | 68 – 69 | Green Blue         | 77         |

**Category 4, Rosco, Cinelux, continued**

| DMX Channel                                                                       | Value    | Gel Name          | Gel Number         |
|-----------------------------------------------------------------------------------|----------|-------------------|--------------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 70 – 71  | Alice Blue        | 378                |
|                                                                                   | 72 – 73  | Primary Blue      | 80                 |
|                                                                                   | 74 – 75  | Baldassari Blue   | 381                |
|                                                                                   | 76 – 77  | Medium Blue       | 83                 |
|                                                                                   | 78 – 79  | Pale Yellow Green | 87                 |
|                                                                                   | 80 – 81  | Light Green       | 88                 |
|                                                                                   | 82 – 83  | Moss Green        | 89                 |
|                                                                                   | 84 – 85  | Primary Green     | 91                 |
|                                                                                   | 86 – 87  | Turquoise         | 92                 |
|                                                                                   | 88 – 89  | Blue Green        | 93                 |
|                                                                                   | 90 – 91  | Chocolate         | 99                 |
|                                                                                   | 92 – 255 |                   | <b>No function</b> |

### 2.22.5 Category 1, LEE, Color Correction

| DMX Channel                                                                       | Value    | Gel Name                       | Gel Number         |
|-----------------------------------------------------------------------------------|----------|--------------------------------|--------------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 0 – 1    | Double CTB                     | 200                |
|                                                                                   | 2 – 3    | Full CTB                       | 201                |
|                                                                                   | 4 – 5    | 3/4 CTB                        | 281                |
|                                                                                   | 6 – 7    | 1/2 CTB                        | 202                |
|                                                                                   | 8 – 9    | 1/4 CTB                        | 203                |
|                                                                                   | 10 – 11  | 1/8 CTB                        | 218                |
|                                                                                   | 12 – 13  | Double CTO                     | 287                |
|                                                                                   | 14 – 15  | Full CTO                       | 204                |
|                                                                                   | 16 – 17  | 3/4 CTO                        | 285                |
|                                                                                   | 18 – 19  | 1/2 CTO                        | 205                |
|                                                                                   | 20 – 21  | 1/4 CTO                        | 206                |
|                                                                                   | 22 – 23  | 1/8 CTO                        | 223                |
|                                                                                   | 24 – 25  | 1 1/2 CTB                      | 283                |
|                                                                                   | 26 – 27  | 1 1/2 CTO                      | 286                |
|                                                                                   | 28 – 29  | Full CTS                       | 441                |
|                                                                                   | 30 – 31  | 1/2 CTS                        | 442                |
|                                                                                   | 32 – 33  | 1/4 CTS                        | 443                |
|                                                                                   | 34 – 35  | 1/8 CTS                        | 444                |
|                                                                                   | 36 – 37  | Full CTO + .3 ND               | 207                |
|                                                                                   | 38 – 39  | Full CTO + .6 ND               | 208                |
|                                                                                   | 40 – 41  | L.C.T. Yellow (Y1)             | 212                |
|                                                                                   | 42 – 43  | White Flame Green              | 213                |
|                                                                                   | 44 – 45  | LEE Fluorescent Green          | 219                |
|                                                                                   | 46 – 47  | Super Correction L.C.T. Yellow | 230                |
|                                                                                   | 48 – 49  | Super Correction W.F. Green    | 232                |
|                                                                                   | 50 – 51  | H.M.I. (to Tungsten)           | 236                |
|                                                                                   | 52 – 53  | C.I.D. (to Tungsten)           | 237                |
|                                                                                   | 54 – 55  | C.S.I. (to Tungsten)           | 238                |
|                                                                                   | 56 – 57  | LEE Fluorescent 5700 Kelvin    | 241                |
|                                                                                   | 58 – 59  | LEE Fluorescent 4300 Kelvin    | 242                |
|                                                                                   | 60 – 61  | LEE Fluorescent 3600 Kelvin    | 243                |
|                                                                                   | 62 – 63  | LEE Plus Green                 | 244                |
|                                                                                   | 64 – 65  | 1/2 Plus Green                 | 245                |
|                                                                                   | 66 – 67  | 1/4 Plus Green                 | 246                |
|                                                                                   | 69 – 69  | 1/8 Plus Green                 | 278                |
|                                                                                   | 70 – 71  | LEE Minus Green                | 247                |
|                                                                                   | 72 – 73  | 1/2 Minus Green                | 248                |
|                                                                                   | 74 – 75  | 1/4 Minus Green                | 249                |
|                                                                                   | 76 - 77  | 1/8 Minus Green                | 279                |
|                                                                                   | 78 – 255 |                                | <b>No function</b> |

### 2.22.6 Category 2, LEE, Color Filters

| DMX Channel                                                                           | Value   | Gel Name             | Gel Number |
|---------------------------------------------------------------------------------------|---------|----------------------|------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 0 – 1   | Rose Pink            | 002        |
|                                                                                       | 2 – 3   | Lavender Tint        | 003        |
|                                                                                       | 4 – 5   | Medium Bastard Amber | 004        |
|                                                                                       | 6 – 7   | Pale Yellow          | 007        |
|                                                                                       | 8 – 9   | Dark Salmon          | 008        |
|                                                                                       | 10 – 11 | Pale Amber Gold      | 009        |
|                                                                                       | 12 – 13 | Medium Yellow        | 010        |
|                                                                                       | 14 – 15 | Straw Tint           | 013        |
|                                                                                       | 16 – 17 | Surprise Peach       | 017        |
|                                                                                       | 18 – 19 | Fire                 | 019        |
|                                                                                       | 20 – 21 | Medium Amber         | 020        |
|                                                                                       | 22 – 23 | Gold Amber           | 021        |
|                                                                                       | 24 – 25 | Dark Amber           | 022        |
|                                                                                       | 26 – 27 | Scarlet              | 024        |
|                                                                                       | 28 – 29 | Sunset Red           | 025        |
|                                                                                       | 30 – 31 | Bright Red           | 026        |
|                                                                                       | 32 – 33 | Light Pink           | 035        |
|                                                                                       | 34 – 35 | Medium Pink          | 036        |
|                                                                                       | 36 – 37 | Dark Magenta         | 046        |
|                                                                                       | 38 – 39 | Rose Purple          | 048        |
|                                                                                       | 40 – 41 | Light Lavender       | 052        |
|                                                                                       | 42 – 43 | Paler Lavender       | 053        |
|                                                                                       | 44 – 45 | Lavender             | 058        |
|                                                                                       | 46 – 47 | Mist Blue            | 061        |
|                                                                                       | 48 – 49 | Pale Blue            | 063        |
|                                                                                       | 50 – 51 | Sky Blue             | 068        |
|                                                                                       | 52 – 53 | Evening Blue         | 075        |
|                                                                                       | 54 – 55 | Just Blue            | 079        |
|                                                                                       | 56 – 57 | Deeper Blue          | 085        |
|                                                                                       | 58 – 59 | Lime Green           | 088        |
|                                                                                       | 60 – 61 | Moss Green           | 089        |
|                                                                                       | 62 – 63 | Dark Yellow Green    | 090        |
|                                                                                       | 64 – 65 | Spring Yellow        | 100        |
|                                                                                       | 66 – 67 | Yellow               | 101        |
|                                                                                       | 68 – 69 | Light Amber          | 102        |
|                                                                                       | 70 – 71 | Straw                | 103        |
|                                                                                       | 72 – 73 | Deep Amber           | 104        |
|                                                                                       | 74 – 75 | Primary Red          | 106        |
|                                                                                       | 76 – 77 | Light Rose           | 107        |

**Category 2, LEE, Color Filters, continued**

| DMX Channel                                                                       | Value     | Gel Name          | Gel Number |
|-----------------------------------------------------------------------------------|-----------|-------------------|------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 78 – 79   | English Rose      | 108        |
|                                                                                   | 80 – 81   | Light Salmon      | 109        |
|                                                                                   | 82 – 83   | Middle Rose       | 110        |
|                                                                                   | 84 – 85   | Dark Pink         | 111        |
|                                                                                   | 86 – 87   | Magenta           | 113        |
|                                                                                   | 88 – 89   | Peacock Blue      | 115        |
|                                                                                   | 90 – 91   | Steel Blue        | 117        |
|                                                                                   | 92 – 93   | Light Blue        | 118        |
|                                                                                   | 94 – 95   | Deep Blue         | 120        |
|                                                                                   | 96 – 97   | LEE Green         | 121        |
|                                                                                   | 98 – 99   | Fern Green        | 122        |
|                                                                                   | 100 – 101 | Dark Green        | 124        |
|                                                                                   | 102 – 103 | Smokey Pink       | 127        |
|                                                                                   | 104 – 105 | Bright Pink       | 128        |
|                                                                                   | 106 – 107 | Marine Blue       | 131        |
|                                                                                   | 108 – 109 | Golden Amber      | 134        |
|                                                                                   | 110 – 111 | Deep Golden Amber | 135        |
|                                                                                   | 112 – 113 | Pale Lavender     | 136        |
|                                                                                   | 114 – 115 | Special Lavender  | 137        |
|                                                                                   | 116 – 117 | Pale Green        | 138        |
|                                                                                   | 118 – 119 | Summer Blue       | 140        |
|                                                                                   | 120 – 121 | Pale Violet       | 142        |
|                                                                                   | 122 – 123 | Pale Navy Blue    | 143        |
|                                                                                   | 124 – 125 | No Color Blue     | 144        |
|                                                                                   | 126 – 127 | Apricot           | 147        |
|                                                                                   | 128 – 129 | Bright Rose       | 148        |
|                                                                                   | 130 – 131 | Gold Tint         | 151        |
|                                                                                   | 132 – 133 | Pale Gold         | 152        |
|                                                                                   | 134 – 135 | Pale Salmon       | 153        |
|                                                                                   | 136 – 137 | Pale Rose         | 154        |
|                                                                                   | 138 – 139 | Chocolate         | 156        |
|                                                                                   | 140 – 141 | Pink              | 157        |
|                                                                                   | 142 – 143 | No Color Straw    | 159        |
|                                                                                   | 144 – 145 | Slate Blue        | 161        |
|                                                                                   | 146 – 147 | Bastard Amber     | 162        |
|                                                                                   | 148 – 149 | Flame Red         | 164        |
|                                                                                   | 150 – 151 | Daylight Blue     | 165        |
|                                                                                   | 152 – 153 | Lilac Tint        | 169        |
|                                                                                   | 154 – 155 | Deep Lavender     | 170        |

**Category 2, LEE, Color Filters, continued**

| DMX Channel                                                                       | Value     | Gel Name        | Gel Number         |
|-----------------------------------------------------------------------------------|-----------|-----------------|--------------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 156 – 157 | Dark Steel Blue | 174                |
|                                                                                   | 158 – 159 | Loving Amber    | 176                |
|                                                                                   | 160 – 161 | Dark Lavender   | 180                |
|                                                                                   | 162 – 163 | Light Red       | 182                |
|                                                                                   | 164 – 165 | Flesh Pink      | 192                |
|                                                                                   | 166 – 167 | Surprise Pink   | 194                |
|                                                                                   | 168 – 169 | Zenith Blue     | 195                |
|                                                                                   | 170 – 171 | True Blue       | 196                |
|                                                                                   | 172 – 173 | Alice Blue      | 197                |
|                                                                                   | 174 – 175 | Palace Blue     | 198                |
|                                                                                   | 176 – 177 | Regal Blue      | 199                |
|                                                                                   | 178 – 255 |                 | <b>No function</b> |

### 2.22.7 Category 3, LEE, 600 Series

| DMX Channel                                                                       | Value    | Gel Name        | Gel Number         |
|-----------------------------------------------------------------------------------|----------|-----------------|--------------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 0 – 1    | Arctic White    | 600                |
|                                                                                   | 2 – 3    | Silver          | 601                |
|                                                                                   | 4 – 5    | Platinum        | 602                |
|                                                                                   | 6 – 7    | Moonlight White | 603                |
|                                                                                   | 8 – 9    | Full CT 85      | 604                |
|                                                                                   | 10 – 11  | Industry Sodium | 650                |
|                                                                                   | 12 – 13  | HI Sodium       | 651                |
|                                                                                   | 14 – 15  | Urban Sodium    | 652                |
|                                                                                   | 16 – 17  | LO Sodium       | 653                |
|                                                                                   | 18 – 255 |                 | <b>No function</b> |

### 2.22.8 Category 4, LEE, Cosmetic Filters

| DMX Channel                                                                       | Value    | Gel Name              | Gel Number         |
|-----------------------------------------------------------------------------------|----------|-----------------------|--------------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 0 – 1    | Cosmetic Peach        | 184                |
|                                                                                   | 2 – 3    | Cosmetic Silver Rose  | 186                |
|                                                                                   | 4 – 5    | Cosmetic Rouge        | 187                |
|                                                                                   | 6 – 7    | Cosmetic Highlight    | 188                |
|                                                                                   | 8 – 9    | Cosmetic Silver Moss  | 189                |
|                                                                                   | 10 – 11  | Cosmetic Aqua Blue    | 191                |
|                                                                                   | 12 – 13  | Lily Frost            | 705                |
|                                                                                   | 14 – 15  | Shanklin Frost        | 717                |
|                                                                                   | 16 – 17  | Half Shanklin Frost   | 718                |
|                                                                                   | 18 – 19  | Durham Daylight Frost | 720                |
|                                                                                   | 20 – 21  | Hampshire Rose        | 749                |
|                                                                                   | 22 – 23  | Durham Frost          | 750                |
|                                                                                   | 24 – 25  | Soft Amber Key 1      | 774                |
|                                                                                   | 26 – 27  | Soft Amber Key 2      | 775                |
|                                                                                   | 28 – 29  | Moroccan Frost        | 791                |
|                                                                                   | 30 – 31  | Blue Diffusion        | 217                |
|                                                                                   | 32 – 33  | Blue Frost            | 221                |
|                                                                                   | 34 – 35  | Daylight Blue frost   | 224                |
|                                                                                   | 36 – 255 |                       | <b>No function</b> |

### 2.22.9 Category 5, LEE, 700 Series

| DMX Channel                                                                           | Value    | Gel Name              | Gel Number         |
|---------------------------------------------------------------------------------------|----------|-----------------------|--------------------|
| <b>8 bit:</b><br>Gel 1: 6<br>Gel 2: 12<br><br><b>16 bit:</b><br>Gel 1: 6<br>Gel 2: 14 | 0 – 1    | Perfect Lavender      | 700                |
|                                                                                       | 2 – 3    | Provence              | 701                |
|                                                                                       | 4 – 5    | Special Pale Lavender | 702                |
|                                                                                       | 6 – 7    | Cold Lavender         | 703                |
|                                                                                       | 8 – 9    | Lily                  | 704                |
|                                                                                       | 10 – 11  | King Fals Lavender    | 706                |
|                                                                                       | 12 – 13  | Cool Lavender         | 708                |
|                                                                                       | 14 – 15  | Electric Lilac        | 709                |
|                                                                                       | 16 – 17  | Spir Special Blue     | 710                |
|                                                                                       | 18 – 19  | Cold Blue             | 711                |
|                                                                                       | 20 – 21  | Bedford Blue          | 712                |
|                                                                                       | 22 – 23  | Elysian Blue          | 714                |
|                                                                                       | 24 – 25  | Cabana Blue           | 715                |
|                                                                                       | 26 – 27  | Mikkel Blue           | 716                |
|                                                                                       | 28 – 29  | Colour Wash Blue      | 719                |
|                                                                                       | 30 – 31  | Berry Blue            | 721                |
|                                                                                       | 32 – 33  | Virgin Blue           | 723                |
|                                                                                       | 34 – 35  | Ocean Blue            | 724                |
|                                                                                       | 36 – 37  | Old Steel Blue        | 725                |
|                                                                                       | 38 – 39  | Steel Green           | 728                |
|                                                                                       | 40 – 41  | Liberty Green         | 730                |
|                                                                                       | 42 – 43  | Dirty Ice             | 731                |
|                                                                                       | 44 – 45  | Damp Squib            | 733                |
|                                                                                       | 46 – 47  | JAS Green             | 738                |
|                                                                                       | 48 – 49  | Bram Brown            | 742                |
|                                                                                       | 50 – 51  | Dirty White           | 744                |
|                                                                                       | 52 – 53  | Brown                 | 746                |
|                                                                                       | 54 – 55  | Easy White            | 747                |
|                                                                                       | 56 – 57  | Seedy Pink            | 748                |
|                                                                                       | 58 – 59  | Wheat                 | 763                |
|                                                                                       | 60 – 61  | Sun Colour Straw      | 764                |
|                                                                                       | 62 – 63  | LEE Yellow            | 765                |
|                                                                                       | 64 – 65  | Cardbox Amber         | 773                |
|                                                                                       | 66 – 67  | Nectarine             | 776                |
|                                                                                       | 68 – 69  | Millenium Gold        | 778                |
|                                                                                       | 70 – 71  | Bastard Pink          | 779                |
|                                                                                       | 72 – 73  | Terry Red             | 781                |
|                                                                                       | 74 – 75  | Blood Red             | 789                |
|                                                                                       | 76 – 77  | Moroccan Pink         | 790                |
|                                                                                       | 78 – 79  | Pretty n'Pink         | 794                |
|                                                                                       | 80 – 81  | Magical Magenta       | 795                |
|                                                                                       | 82 – 255 |                       | <b>No function</b> |

## 2.23 Mode 18: x,y Coordinates 8 bit

| DMX Cannel                                                                                 | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>2</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>X1 Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                      |
| <b>3</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Y1 Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                      |
| <b>4</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Crossfade to Color</b><br>X1, Y1 → X2, Y2                                                                                                                                                                                           |
| <b>5</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>X2 Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                      |
| <b>6</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Y2 Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                      |
| <b>7</b>                                                                                   | 0 – 51<br>52 – 102<br>103 – 153<br>154 – 204<br>205 – 255                        | 0 – 20<br>21 – 40<br>41 – 60<br>61 – 79<br>80 – 100                     | <b>Transition Type</b><br>Direct<br>Through White Point<br>Through Black Point<br>Over White Point<br>Under White point                                                                                                                |
| <b>8</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>9</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>10</b>                                                                                  | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>11</b>                                                                                  | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.24 Mode 19: x,y Coordinates 16 bit

| DMX Cannel                                                                           |    | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------|----|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HI                                                                                   | LO |                                                                                  |                                                                         |                                                                                                                                                                                                                                        |
| 1                                                                                    | 2  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| 3                                                                                    | 4  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>X1 Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                      |
| 5                                                                                    | 6  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Y1 Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                      |
| 7                                                                                    | 8  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Crossfade to Color</b><br>X1, Y1 → X2, Y2                                                                                                                                                                                           |
| 9                                                                                    | 10 | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>X2 Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                      |
| 11                                                                                   | 12 | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Y2 Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                      |
| 13                                                                                   |    | 0 – 51<br>52 – 102<br>103 – 153<br>154 – 204<br>205 – 255                        | 0 – 20<br>21 – 40<br>41 – 60<br>61 – 79<br>80 – 100                     | <b>Transition Type</b><br>Direct<br>Through White Point<br>Through Black Point<br>Over White Point<br>Under White point                                                                                                                |
| 14<br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> |    | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| 15                                                                                   |    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| 16                                                                                   |    | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| 17                                                                                   |    | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.25 Mode 20: Source Matching 8 bit

| DMX Cannel                                                                                 | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>2</b>                                                                                   | 0 – 50<br>51 – 101<br>102 – 152<br>153 – 203<br>204 – 255                        | 0 – 20<br>21 – 39<br>40 – 59<br>60 – 79<br>80 – 100                     | <b>Category 1</b><br>Incandescent<br>Fluorescent<br>Discharge<br>Other<br><b>Reserved for future use</b>                                                                                                                               |
| <b>3</b>                                                                                   | 0 - 255                                                                          | 0 - 100                                                                 | <b>Source 1</b><br>Please see table below                                                                                                                                                                                              |
| <b>4</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Crossfade to Color</b><br>Cat. 1, Source 1 → Cat. 2, Source 2                                                                                                                                                                       |
| <b>5</b>                                                                                   | 0 – 50<br>51 – 101<br>102 – 152<br>153 – 203<br>204 – 255                        | 0 – 20<br>21 – 39<br>40 – 59<br>60 – 79<br>80 – 100                     | <b>Category 2</b><br>Incandescent<br>Fluorescent<br>Discharge<br>Other<br><b>Reserved for future use</b>                                                                                                                               |
| <b>6</b>                                                                                   | 0 - 255                                                                          | 0 - 100                                                                 | <b>Source 2</b><br>Please see table below                                                                                                                                                                                              |
| <b>7</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| <b>8</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| <b>9</b>                                                                                   | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| <b>10</b>                                                                                  | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.26 Mode 21: Source Matching 16 bit

| DMX Cannel |    | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|------------|----|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HI         | LO |                                                                                  |                                                                         |                                                                                                                                                                                                                                        |
| 1          | 2  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| 3          |    | 0 – 50<br>51 – 101<br>102 – 152<br>153 – 203<br>204 – 255                        | 0 – 20<br>21 – 39<br>40 – 59<br>60 – 79<br>80 – 100                     | <b>Category 1</b><br>Incandescent<br>Fluorescent<br>Discharge<br>Other<br><b>Reserved for future use</b>                                                                                                                               |
| 4          |    | 0 - 255                                                                          | 0 - 100                                                                 | <b>Source 1</b><br>Please see table below                                                                                                                                                                                              |
| 5          | 6  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Crossfade to Color</b><br>Cat. 1, Source 1 → Cat. 2, Source 2                                                                                                                                                                       |
| 7          |    | 0 – 50<br>51 – 101<br>102 – 152<br>153 – 203<br>204 – 255                        | 0 – 20<br>21 – 39<br>40 – 59<br>60 – 79<br>80 – 100                     | <b>Category 2</b><br>Incandescent<br>Fluorescent<br>Discharge<br>Other<br><b>Reserved for future use</b>                                                                                                                               |
| 8          |    | 0 - 255                                                                          | 0 - 100                                                                 | <b>Source 2</b><br>Please see table below                                                                                                                                                                                              |
| 9          |    | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| 10         |    | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| 11         |    | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| 12         |    | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.27 Source Matching Sources

| Category            | Value    | Name                 |
|---------------------|----------|----------------------|
| <b>Incandescent</b> | 0 – 2    | Tungsten Bulb        |
|                     | 3 – 5    | Incandescent         |
|                     | 6 – 8    | Halogen              |
|                     | 9 – 11   | Antique Bulb         |
|                     | 12 – 14  | Warm Antique Bulb    |
|                     | 15 – 17  | Christmas Lights     |
|                     | 18 – 20  | Night Light          |
|                     | 21 – 23  | Infrared Heat Lamp   |
|                     | 24 – 26  | Grow light           |
|                     | 27 – 255 | <b>No function</b>   |
| <b>Fluorescent</b>  | 0 – 2    | CFL Soft White       |
|                     | 3 – 5    | CFL Bright White     |
|                     | 6 – 8    | CFL Cool White       |
|                     | 9 – 11   | CFL Daylight         |
|                     | 12 – 14  | Cool White 1         |
|                     | 15 – 17  | Cool White 2         |
|                     | 18 – 20  | Cool White 3         |
|                     | 21 – 23  | Warm White           |
|                     | 24 – 26  | CFL Blacklight       |
|                     | 27 – 255 | <b>No function</b>   |
| <b>Discharge</b>    | 0 – 2    | HMI                  |
|                     | 3 – 5    | High Pressure Sodium |
|                     | 6 – 8    | Low Pressure Sodium  |
|                     | 9 – 11   | Mercury Vapor        |
|                     | 12 – 14  | Metal Halide         |
|                     | 15 – 17  | Ceramic              |
|                     | 18 – 20  | Carbon Arc           |
|                     | 21 – 23  | Xenon                |
|                     | 24 – 255 | <b>No function</b>   |

| Category     | Value    | Name                 |
|--------------|----------|----------------------|
| <b>Other</b> | 0 – 2    | Candle               |
|              | 3 – 5    | Gas Fire             |
|              | 6 – 8    | Sun Direct           |
|              | 9 – 11   | Sun Overcast         |
|              | 12 – 14  | Sun Blue Hour        |
|              | 15 – 17  | Mobile Phone         |
|              | 18 – 20  | Computer Monitor     |
|              | 21 – 23  | Electroluminescence  |
|              | 24 – 26  | Blow Torch           |
|              | 27 – 29  | Road Flare           |
|              | 30 – 32  | Amber Caution        |
|              | 33 – 35  | Green Traffic Light  |
|              | 36 – 38  | Yellow Traffic Light |
|              | 39 – 41  | Red Traffic Light    |
|              | 42 – 44  | Blue Glow Stick      |
|              | 45 – 47  | Green Glow Stick     |
|              | 48 – 50  | Red Glow Stick       |
|              | 51 – 53  | Yellow Glow Stick    |
|              | 54 – 56  | Pink Glow Stick      |
|              | 57 – 59  | Violet Glow Stick    |
|              | 60 – 255 | <b>No function</b>   |

## 2.28 Mode 22: Effects 8 bit

| DMX Cannel | Value                                                                                                                                                                                                                         | Percent                                                                                                                                                                                                   | Function                                                                                                                                                                                                                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>   | 0 – 255                                                                                                                                                                                                                       | 0 – 100                                                                                                                                                                                                   | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                                                                                    |
| <b>2</b>   | 0 – 9<br>10 – 19<br>20 – 29<br>30 – 39<br>40 – 49<br>50 – 59<br>60 – 69<br>70 – 79<br>80 – 89<br>90 – 99<br>100 – 109<br>110 – 119<br>120 – 129<br>130 – 139<br>140 – 149<br>150 – 159<br>160 – 169<br>170 – 179<br>180 – 255 | 0 – 4<br>5 – 7<br>8 – 11<br>12 – 15<br>16 – 19<br>20 – 23<br>24 – 27<br>28 – 31<br>32 – 35<br>36 – 39<br>40 – 43<br>44 – 47<br>48 – 51<br>52 – 55<br>56 – 58<br>59 – 62<br>63 – 66<br>67 – 70<br>71 – 100 | <b>Effect Selection</b><br>No Effect<br>Party Effect<br>Candle<br>Clouds Passing<br>Club Lights<br>Color Chase<br>Cop Car<br>Fire<br>Fireworks<br>Light Strobe<br>Lightning<br>Paparazzi<br>Pulsing<br>Television<br>Explosion<br>Fluorescent Flicker<br>Process Effect<br>Welding<br><b>No function</b> |
| <b>3</b>   | 0 - 255                                                                                                                                                                                                                       | 0 - 100                                                                                                                                                                                                   | <b>Effect Parameter 1</b><br>See table below                                                                                                                                                                                                                                                             |
| <b>4</b>   | 0 - 255                                                                                                                                                                                                                       | 0 - 100                                                                                                                                                                                                   | <b>Effect Parameter 2</b><br>See table below                                                                                                                                                                                                                                                             |
| <b>5</b>   | 0 - 255                                                                                                                                                                                                                       | 0 - 100                                                                                                                                                                                                   | <b>Effect Parameter 3</b><br>See table below                                                                                                                                                                                                                                                             |
| <b>6</b>   | 0 - 255                                                                                                                                                                                                                       | 0 - 100                                                                                                                                                                                                   | <b>Effect Parameter 4</b><br>See table below                                                                                                                                                                                                                                                             |
| <b>7</b>   | 0 - 255                                                                                                                                                                                                                       | 0 - 100                                                                                                                                                                                                   | <b>Effect Parameter 5</b><br>See table below                                                                                                                                                                                                                                                             |
| <b>8</b>   | 0 - 255                                                                                                                                                                                                                       | 0 - 100                                                                                                                                                                                                   | <b>Effect Parameter 6</b><br>See table below                                                                                                                                                                                                                                                             |
| <b>9</b>   | 0 - 255                                                                                                                                                                                                                       | 0 - 100                                                                                                                                                                                                   | <b>Effect Parameter 7</b><br>See table below                                                                                                                                                                                                                                                             |

| DMX Channel                                                                    | Value     | Percent  | Function                                   |
|--------------------------------------------------------------------------------|-----------|----------|--------------------------------------------|
| <b>10</b>                                                                      |           |          | <b>Fan Control</b>                         |
| <i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9     | 0 – 3    | Use <i>Fan Mode Setting</i> of device menu |
|                                                                                | 10 – 57   | 4 – 22   | Quiet, Fan speed fixed                     |
|                                                                                | 58 – 105  | 23 – 41  | Variable, Fan speed variable               |
|                                                                                | 106 – 153 | 42 – 60  | High Temp, Fan speed fixed                 |
|                                                                                | 154 – 201 | 61 – 78  | Use <i>Fan Mode Setting</i> of device menu |
|                                                                                | 202 – 249 | 79 – 97  | Fan at Full Speed                          |
|                                                                                | 250 - 255 | 99 - 100 | Fan Off                                    |
| <b>11</b>                                                                      | 0 – 255   | 0 – 100  | <b>Preset</b><br>See Preset Channel [► 7]  |
| <b>12</b>                                                                      | 0 – 255   | 0 – 100  | <b>No function</b>                         |
| <b>13</b>                                                                      | 0 – 255   | 0 – 100  | <b>No function</b>                         |

## 2.29 Mode 23: Effects 16 bit

| DMX Cannel |    | Value      | Percent  | Function                                     |
|------------|----|------------|----------|----------------------------------------------|
| HI         | LO |            |          |                                              |
| 1          | 2  | 0 – 65.535 | 0 – 100  | <b>Master Dimmer</b><br>Closed → open        |
| 3          |    | 0 – 9      | 0 – 4    | <b>Effect Selection</b><br>No Effect         |
|            |    | 10 – 19    | 5 – 7    | Party Effect                                 |
|            |    | 20 – 29    | 8 – 11   | Candle                                       |
|            |    | 30 – 39    | 12 – 15  | Clouds Passing                               |
|            |    | 40 – 49    | 16 – 19  | Club Lights                                  |
|            |    | 50 – 59    | 20 – 23  | Color Chase                                  |
|            |    | 60 – 69    | 24 – 27  | Cop Car                                      |
|            |    | 70 – 79    | 28 – 31  | Fire                                         |
|            |    | 80 – 89    | 32 – 35  | Fireworks                                    |
|            |    | 90 – 99    | 36 – 39  | Light Strobe                                 |
|            |    | 100 – 109  | 40 – 43  | Lightning                                    |
|            |    | 110 – 119  | 44 – 47  | Paparazzi                                    |
|            |    | 120 – 129  | 48 – 51  | Pulsing                                      |
|            |    | 130 – 139  | 52 – 55  | Television                                   |
|            |    | 140 – 149  | 56 – 58  | Explosion                                    |
|            |    | 150 – 159  | 59 – 62  | Fluorescent Flicker                          |
|            |    | 160 – 169  | 63 – 66  | Process Effect                               |
|            |    | 170 – 179  | 67 – 70  | Welding                                      |
|            |    | 180 – 255  | 71 – 100 | <b>No function</b>                           |
| 4          | 5  | 0 – 65.535 | 0 - 100  | <b>Effect Parameter 1</b><br>See table below |
| 6          | 7  | 0 – 65.535 | 0 - 100  | <b>Effect Parameter 2</b><br>See table below |
| 8          | 9  | 0 – 65.535 | 0 - 100  | <b>Effect Parameter 3</b><br>See table below |
| 10         | 11 | 0 – 65.535 | 0 - 100  | <b>Effect Parameter 4</b><br>See table below |
| 12         | 13 | 0 – 65.535 | 0 - 100  | <b>Effect Parameter 5</b><br>See table below |
| 14         | 15 | 0 – 65.535 | 0 - 100  | <b>Effect Parameter 6</b><br>See table below |
| 16         | 17 | 0 – 65.535 | 0 - 100  | <b>Effect Parameter 7</b><br>See table below |

| DMX Channel                                                                    |           | Value      | Percent  | Function                                   |
|--------------------------------------------------------------------------------|-----------|------------|----------|--------------------------------------------|
| <b>18</b>                                                                      |           |            |          | <b>Fan Control</b>                         |
| <i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> |           | 0 – 9      | 0 – 3    | Use <i>Fan Mode Setting</i> of device menu |
|                                                                                |           | 10 – 57    | 4 – 22   | Quiet, Fan speed fixed                     |
|                                                                                |           | 58 – 105   | 23 – 41  | Variable, Fan speed variable               |
|                                                                                |           | 106 – 153  | 42 – 60  | High Temp, Fan speed fixed                 |
|                                                                                |           | 154 – 201  | 61 – 78  | Use <i>Fan Mode Setting</i> of device menu |
|                                                                                |           | 202 – 249  | 79 – 97  | Fan at Full Speed                          |
|                                                                                |           | 250 - 255  | 99 - 100 | Fan Off                                    |
| <b>19</b>                                                                      |           |            |          | <b>Preset</b>                              |
|                                                                                |           | 0 – 255    | 0 – 100  | See Preset Channel [► 7]                   |
| <b>20</b>                                                                      | <b>21</b> | 0 – 65.535 | 0 – 100  | <b>No function</b>                         |

## 2.30 Lighting Effects - Parameters

### 2.30.1 Party Effect

| Effect Parameter | Value 8 bit | Value 16 bit | Percent | Function                                   |
|------------------|-------------|--------------|---------|--------------------------------------------|
| <b>1</b>         | 0           | 0            | 0       | <b>Saturation</b>                          |
|                  | 1 – 255     | 1 – 65.535   | 1 – 100 | CCT 2,800 → 10,000 K<br>0 → 1.0 Saturation |
| <b>2</b>         | 0 - 255     | 0 – 65.535   | 0 - 100 | <b>Speed</b>                               |
|                  |             |              |         | Loop 60 s → 1 s                            |

### 2.30.2 Candle

| Effect Parameter | Value 8 bit | Value 16 bit    | Percent  | Function                                                                  |
|------------------|-------------|-----------------|----------|---------------------------------------------------------------------------|
| <b>1</b>         |             |                 |          | <b>CCT Range</b>                                                          |
|                  | 0 – 84      | 0 – 21.504      | 0 – 33   | <i>Not continuous, set range for random generation</i><br>1.400 → 1.700 K |
|                  | 85 – 170    | 21.505 – 43.520 | 34 – 66  | 1.700 → 2.000 K                                                           |
|                  | 171 – 255   | 43.521 – 65.535 | 67 – 100 | 2.000 → 2.300 K                                                           |
| <b>2</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Speed</b>                                                              |
|                  |             |                 |          | 0 → 120 changes / min                                                     |

### 2.30.3 Clouds Passing

| Effect Parameter | Value 8 bit | Value 16 bit    | Percent  | Function                                                                                 |
|------------------|-------------|-----------------|----------|------------------------------------------------------------------------------------------|
| <b>1</b>         | 0 – 255     | 0 – 65.535      | 0 - 100  | <b>Offset</b>                                                                            |
|                  |             |                 |          | Offset Number 0 – 50<br><i>Every 5 DMX values is a new offset</i>                        |
| <b>2</b>         | 0 – 127     | 0 – 32.767      | 0 – 50   | <b>Speed</b>                                                                             |
|                  | 128 – 255   | 32.768 – 65.535 | 51 – 100 | 2 x Slower → Default Speed<br>Default Speed → 2 x Faster                                 |
| <b>3</b>         | 255         | 65.535          | 100      | <b>Sync</b>                                                                              |
|                  |             |                 |          | <i>If bumped to 100%, the loop will start at zero (or depending on the offset value)</i> |

### 2.30.4 Club Lights

| Effect Parameter | Value 8 bit | Value 16 bit    | Percent  | Function              |
|------------------|-------------|-----------------|----------|-----------------------|
| <b>1</b>         | 0 – 31      | 0 – 7.936       | 0 – 12   | <b>Color Variety</b>  |
|                  | 32 – 63     | 7.937 – 16.128  | 13 – 25  | 3 Colors              |
|                  | 64 – 95     | 16.129 – 24.320 | 26 – 37  | 6 Colors              |
|                  | 96 – 127    | 24.321 – 32.767 | 38 – 49  | 9 Colors              |
|                  | 128 – 159   | 32.768 – 40.704 | 50 – 62  | 12 Colors             |
|                  | 160 – 191   | 40.705 – 48.896 | 63 – 75  | 15 Colors             |
|                  | 192 – 223   | 48.897 – 57.088 | 76 – 87  | 18 Colors             |
|                  | 224 – 255   | 57.089 – 65.535 | 88 – 100 | 21 Colors             |
| <b>2</b>         |             |                 |          | <b>Speed</b>          |
|                  | 0 - 255     | 0 – 65.535      | 0 - 100  | 0 → 120 changes / min |

### 2.30.5 Color Chase

| Effect Parameter | Value 8 bit | Value 16 bit | Percent | Function                                                                                 |
|------------------|-------------|--------------|---------|------------------------------------------------------------------------------------------|
| <b>1</b>         | 0 – 255     | 0 – 65.535   | 0 - 100 | <b>Offset</b>                                                                            |
|                  |             |              |         | Offset Number 0 – 50<br><i>Every 5 DMX values is a new offset</i>                        |
| <b>2</b>         | 0 – 255     | 0 – 65.535   | 0 – 100 | <b>Speed</b>                                                                             |
|                  |             |              |         | Loop 60 s → 1 s                                                                          |
| <b>3</b>         | 0           | 0            | 0       | <b>Saturation</b>                                                                        |
|                  | 1 – 255     | 1 – 65.535   | 1 – 100 | CCT 2,800 → 10,000 K<br>0 → 1.0 Saturation                                               |
| <b>4</b>         | 255         | 65.535       | 100     | <b>Sync</b>                                                                              |
|                  |             |              |         | <i>If bumped to 100%, the loop will start at zero (or depending on the offset value)</i> |

### 2.30.6 Cop Car

| Effect Parameter | Value 8 bit | Value 16 bit    | Percent  | Function                               |
|------------------|-------------|-----------------|----------|----------------------------------------|
| <b>1</b>         | 0 – 27      | 0 – 6.912       | 0 – 11   | <b>Color Combinations</b><br>Just Blue |
|                  | 28 – 55     | 6.913 – 14.080  | 12 – 21  | Blue and Red                           |
|                  | 56 – 83     | 14.081 – 21.248 | 22 – 32  | Blue and White                         |
|                  | 84 – 111    | 21.249 – 28.416 | 33 – 43  | Blue, Red and White                    |
|                  | 112 – 139   | 28.417 – 35.584 | 44 – 54  | Blue and Amber                         |
|                  | 140 – 167   | 35.585 – 42.752 | 55 – 65  | Blue, Red and Amber                    |
|                  | 168 – 195   | 42.753 – 49.920 | 66 – 76  | Red and Amber                          |
|                  | 196 – 223   | 49.921 – 57.088 | 77 – 87  | Amber                                  |
|                  | 224 – 255   | 57.089 – 65.535 | 88 – 100 | Red                                    |
| <b>2</b>         | 0 – 31      | 0 – 7.936       | 0 – 12   | <b>Flash Pattern</b><br>Single Flash   |
|                  | 32 – 63     | 7.937 – 16.128  | 13 – 25  | Double Flash                           |
|                  | 64 – 95     | 16.129 – 24.320 | 26 – 37  | Quint All Flash                        |
|                  | 96 – 127    | 24.321 – 32.767 | 38 – 49  | Quint Flash                            |
|                  | 128 – 159   | 32.768 – 40.704 | 50 – 62  | Quad Flash                             |
|                  | 160 – 191   | 40.705 – 48.896 | 63 – 75  | Cycle All                              |
|                  | 192 – 255   | 48.897 – 65.535 | 76 – 100 | <b>No function</b>                     |

### 2.30.7 Explosion

| Effect Parameter | Value 8 bit | Value 16 bit    | Percent  | Function                                                                                                                                  |
|------------------|-------------|-----------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Decay</b><br>4 → 0.5 seconds                                                                                                           |
| <b>1</b>         | 250 - 255   | 64.224 – 65.535 | 98 - 100 | <b>Trigger</b><br>Manual (bump intensity to explode)                                                                                      |
| <b>2</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Color Temperature</b><br>2.800 K → 10.000 K                                                                                            |
| <b>3</b>         | 0 – 10      | 0 – 4.587       | 0 – 4    | <b>Green–Magenta Point</b><br>neutral / no effect<br>full minus green<br>–99% → –1%<br>neutral / no effect<br>1% → 99%<br>full plus green |
|                  | 11 – 20     | 4.588 – 9.830   | 5 – 8    |                                                                                                                                           |
|                  | 21 – 119    | 9.831 – 30.145  | 9 – 47   |                                                                                                                                           |
|                  | 120 – 145   | 30.146 – 39.976 | 48 – 57  |                                                                                                                                           |
|                  | 146 – 244   | 39.977 – 60.292 | 58 – 96  |                                                                                                                                           |
|                  | 245 – 255   | 60.293 – 65.535 | 97 - 100 |                                                                                                                                           |
| <b>4</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Crossfade to Color</b><br>White → RGBW color                                                                                           |
| <b>5</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Hue</b><br>0° → 360°                                                                                                                   |
| <b>6</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Saturation</b><br>No saturation (white) → full saturation                                                                              |

### 2.30.8 Fire

| Effect Parameter | Value 8 bit | Value 16 bit    | Percent  | Function                                                                   |
|------------------|-------------|-----------------|----------|----------------------------------------------------------------------------|
| <b>1</b>         |             |                 |          | <b>CCT Range</b><br><i>Not continuous, set range for random generation</i> |
|                  | 0 – 84      | 0 – 21.504      | 0 – 33   | 1.800 → 2.200 K                                                            |
|                  | 85 – 170    | 21.505 – 43.520 | 34 – 66  | 1.200 → 2.600 K                                                            |
|                  | 171 – 255   | 43.521 – 65.535 | 67 – 100 | 2.600 → 3.000 K                                                            |
| <b>2</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Speed</b><br>0 → 180 changes / min                                      |

### 2.30.9 Fireworks

| Effect Parameter | Value 8 bit | Value 16 bit    | Percent  | Function                                     |
|------------------|-------------|-----------------|----------|----------------------------------------------|
| <b>1</b>         | 0 – 63      | 0 – 16.128      | 0 – 25   | <b>Color Combinations</b><br>Colors          |
|                  | 64 – 127    | 16.129 – 32.767 | 26 – 50  | White                                        |
|                  | 128 – 191   | 32.768 – 48.896 | 51 – 75  | Colors and White                             |
|                  | 192 – 255   | 48.897 – 65.535 | 76 – 100 | <b>No function</b>                           |
| <b>2</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Speed</b><br>10 → 0.5 s between fireworks |

### 2.30.10 Fluorescent Flicker

| Effect Parameter | Value 8 bit | Value 16 bit    | Percent  | Function                                                     |
|------------------|-------------|-----------------|----------|--------------------------------------------------------------|
| <b>1</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Speed</b><br>2 → 6 seconds of still                       |
| <b>2</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Frequency</b><br>3 → 10 flickers / second                 |
| <b>3</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Color Temperature</b><br>2.800 K → 10.000 K               |
| <b>4</b>         | 0 – 10      | 0 – 4.587       | 0 – 4    | <b>Green–Magenta Point</b><br>neutral / no effect            |
|                  | 11 – 20     | 4.588 – 9.830   | 5 – 8    | full minus green                                             |
|                  | 21 – 119    | 9.831 – 30.145  | 9 – 47   | –99% → –1%                                                   |
|                  | 120 – 145   | 30.146 – 39.976 | 48 – 57  | neutral / no effect                                          |
|                  | 146 – 244   | 39.977 – 60.292 | 58 – 96  | 1% → 99%                                                     |
|                  | 245 – 255   | 60.293 – 65.535 | 97 - 100 | full plus green                                              |
| <b>5</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Crossfade to Color</b><br>White → RGBW color              |
| <b>6</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Hue</b><br>0° → 360°                                      |
| <b>7</b>         | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Saturation</b><br>No saturation (white) → full saturation |

### 2.30.11 Light Strobe

| Effect Parameter | Value 8 bit                                                          | Value 16 bit                                                                                          | Percent                                                    | Function                                                                                                                                  |
|------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Speed</b><br>0 → 25 flashes / second                                                                                                   |
| <b>2</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Color Temperature</b><br>2.800 K → 10.000 K                                                                                            |
| <b>3</b>         | 0 – 10<br>11 – 20<br>21 – 119<br>120 – 145<br>146 – 244<br>245 – 255 | 0 – 4.587<br>4.588 – 9.830<br>9.831 – 30.145<br>30.146 – 39.976<br>39.977 – 60.292<br>60.293 – 65.535 | 0 – 4<br>5 – 8<br>9 – 47<br>48 – 57<br>58 – 96<br>97 - 100 | <b>Green–Magenta Point</b><br>neutral / no effect<br>full minus green<br>–99% → –1%<br>neutral / no effect<br>1% → 99%<br>full plus green |
| <b>4</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Crossfade to Color</b><br>White → RGBW color                                                                                           |
| <b>5</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Hue</b><br>0° → 360°                                                                                                                   |
| <b>6</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Saturation</b><br>No saturation (white) → full saturation                                                                              |

### 2.30.12 Lightning

| Effect Parameter | Value 8 bit                                                          | Value 16 bit                                                                                          | Percent                                                    | Function                                                                                                                                  |
|------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>         | 0 – 254<br>255                                                       | 0 – 65.534<br>65.535                                                                                  | 0 – 99<br>100                                              | <b>Frequency</b><br>2 → 14 lightning strikes set<br>Random                                                                                |
| <b>2</b>         | 0 – 254<br>255                                                       | 0 – 65.534<br>65.535                                                                                  | 0 – 99<br>100                                              | <b>Speed</b><br>0 → 10 flashes / second<br>Random                                                                                         |
| <b>3</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Color Temperature</b><br>2.800 K → 10.000 K                                                                                            |
| <b>4</b>         | 0 – 10<br>11 – 20<br>21 – 119<br>120 – 145<br>146 – 244<br>245 – 255 | 0 – 4.587<br>4.588 – 9.830<br>9.831 – 30.145<br>30.146 – 39.976<br>39.977 – 60.292<br>60.293 – 65.535 | 0 – 4<br>5 – 8<br>9 – 47<br>48 – 57<br>58 – 96<br>97 - 100 | <b>Green–Magenta Point</b><br>neutral / no effect<br>full minus green<br>–99% → –1%<br>neutral / no effect<br>1% → 99%<br>full plus green |
| <b>5</b>         | 255                                                                  | 65.535                                                                                                | 100                                                        | <b>Sync</b><br><i>If bumped to 100%, the loop will start at zero (or depending on the offset value)</i>                                   |

### 2.30.13 Paparazzi

| Effect Parameter | Value 8 bit                                                          | Value 16 bit                                                                                          | Percent                                                    | Function                                                                                                                                  |
|------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>         | 0 – 255                                                              | 0 – 65.535                                                                                            | 0 – 100                                                    | <b>Frequency</b><br>6 → 120 flashes / min                                                                                                 |
| <b>2</b>         | 0 – 127<br>128 – 255                                                 | 0 – 32.767<br>32.768 – 65.535                                                                         | 0 – 50<br>51 – 100                                         | <b>Flash Type</b><br>Flash bulb<br>Modern flash                                                                                           |
| <b>3</b>         | 0 – 255                                                              | 0 – 65.535                                                                                            | 0 – 100                                                    | <b>Color Temperature</b><br>2.800 K → 10.000 K                                                                                            |
| <b>4</b>         | 0 – 10<br>11 – 20<br>21 – 119<br>120 – 145<br>146 – 244<br>245 – 255 | 0 – 4.587<br>4.588 – 9.830<br>9.831 – 30.145<br>30.146 – 39.976<br>39.977 – 60.292<br>60.293 – 65.535 | 0 – 4<br>5 – 8<br>9 – 47<br>48 – 57<br>58 – 96<br>97 – 100 | <b>Green–Magenta Point</b><br>neutral / no effect<br>full minus green<br>–99% → –1%<br>neutral / no effect<br>1% → 99%<br>full plus green |

### 2.30.14 Process Effect

| Effect Parameter | Value 8 bit                                                          | Value 16 bit                                                                                          | Percent                                                    | Function                                                                                                                                  |
|------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>         | 0 – 255                                                              | 0 – 65.535                                                                                            | 0 – 100                                                    | <b>Speed</b><br>Slow → fast                                                                                                               |
| <b>2</b>         | 0 – 127<br>128 – 255                                                 | 0 – 32.764<br>32.765 – 65.535                                                                         | 0 – 50<br>51 – 100                                         | <b>Direction</b><br>Left → right<br>Right → left                                                                                          |
| <b>3</b>         | 0 – 255                                                              | 0 – 65.535                                                                                            | 0 – 100                                                    | <b>Color Temperature</b><br>2.800 K → 10.000 K                                                                                            |
| <b>4</b>         | 0 – 10<br>11 – 20<br>21 – 119<br>120 – 145<br>146 – 244<br>245 – 255 | 0 – 4.587<br>4.588 – 9.830<br>9.831 – 30.145<br>30.146 – 39.976<br>39.977 – 60.292<br>60.293 – 65.535 | 0 – 4<br>5 – 8<br>9 – 47<br>48 – 57<br>58 – 96<br>97 – 100 | <b>Green–Magenta Point</b><br>neutral / no effect<br>full minus green<br>–99% → –1%<br>neutral / no effect<br>1% → 99%<br>full plus green |
| <b>5</b>         | 0 – 255                                                              | 0 – 65.535                                                                                            | 0 – 100                                                    | <b>Crossfade to Color</b><br>White → RGBW color                                                                                           |
| <b>6</b>         | 0 – 255                                                              | 0 – 65.535                                                                                            | 0 – 100                                                    | <b>Hue</b><br>0° → 360°                                                                                                                   |
| <b>7</b>         | 0 – 255                                                              | 0 – 65.535                                                                                            | 0 – 100                                                    | <b>Saturation</b><br>No saturation (white) →<br>full saturation                                                                           |

### 2.30.15 Pulsing

| Effect Parameter | Value 8 bit                                                          | Value 16 bit                                                                                          | Percent                                                    | Function                                                                                                                                  |
|------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Frequency</b><br>5 → 90 pulses / min                                                                                                   |
| <b>1</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Pulse Duration</b><br>4 → 0.25 seconds                                                                                                 |
| <b>2</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Color Temperature</b><br>2.800 K → 10.000 K                                                                                            |
| <b>3</b>         | 0 – 10<br>11 – 20<br>21 – 119<br>120 – 145<br>146 – 244<br>245 – 255 | 0 – 4.587<br>4.588 – 9.830<br>9.831 – 30.145<br>30.146 – 39.976<br>39.977 – 60.292<br>60.293 – 65.535 | 0 – 4<br>5 – 8<br>9 – 47<br>48 – 57<br>58 – 96<br>97 - 100 | <b>Green–Magenta Point</b><br>neutral / no effect<br>full minus green<br>–99% → –1%<br>neutral / no effect<br>1% → 99%<br>full plus green |
| <b>4</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Crossfade to Color</b><br>White → RGBW color                                                                                           |
| <b>5</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Hue</b><br>0° → 360°                                                                                                                   |
| <b>6</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Saturation</b><br>No saturation (white) → full saturation                                                                              |

### 2.30.16 Television

| Effect Parameter | Value 8 bit                     | Value 16 bit                                     | Percent                       | Function                                                                                                                             |
|------------------|---------------------------------|--------------------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>         | 0 – 84<br>85 – 170<br>171 – 255 | 0 – 21.504<br>21.505 – 43.520<br>43.521 – 65.535 | 0 – 33<br>34 – 66<br>67 – 100 | <b>CCT Range</b><br><i>Not continuous, set range for random generation</i><br>2.800 → 4.700 K<br>4.700 → 6.500 K<br>6.500 → 10.000 K |
| <b>2</b>         | 0 - 255                         | 0 – 65.535                                       | 0 - 100                       | <b>Speed</b><br>0 → 24 changes / min                                                                                                 |

### 2.30.17 Welding

| Effect Parameter | Value 8 bit                                                          | Value 16 bit                                                                                          | Percent                                                    | Function                                                                                                                                  |
|------------------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Speed</b><br>Slow → fast                                                                                                               |
| <b>2</b>         | 0 – 255                                                              | 0 – 65.535                                                                                            | 0 – 100                                                    | <b>Min Intensity Level</b><br>0% → 75%                                                                                                    |
| <b>3</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Color Temperature</b><br>2.800 K → 10.000 K                                                                                            |
| <b>4</b>         | 0 – 10<br>11 – 20<br>21 – 119<br>120 – 145<br>146 – 244<br>245 – 255 | 0 – 4.587<br>4.588 – 9.830<br>9.831 – 30.145<br>30.146 – 39.976<br>39.977 – 60.292<br>60.293 – 65.535 | 0 – 4<br>5 – 8<br>9 – 47<br>48 – 57<br>58 – 96<br>97 - 100 | <b>Green–Magenta Point</b><br>neutral / no effect<br>full minus green<br>–99% → –1%<br>neutral / no effect<br>1% → 99%<br>full plus green |
| <b>5</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Crossfade to Color</b><br>White → RGBW color                                                                                           |
| <b>6</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Hue</b><br>0° → 360°                                                                                                                   |
| <b>7</b>         | 0 - 255                                                              | 0 – 65.535                                                                                            | 0 - 100                                                    | <b>Saturation</b><br>No saturation (white) →<br>full saturation                                                                           |

## 2.31 Mode 24: LE Control CCT & RGBW 8 bit

| DMX Cannel                                                                                 | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>2</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Color Temperature CCT</b><br>2.800 K → 10.000 K                                                                                                                                                                                     |
| <b>3</b>                                                                                   | 0 - 10<br>11 - 20<br>21 - 119<br>120 - 145<br>146 - 244<br>245 - 255             | 0 - 4<br>5 - 8<br>9 - 47<br>48 - 57<br>58 - 96<br>97 - 100              | <b>Green / Magenta Point</b><br>Neutral / no effect<br>Full minus green<br>–99% → –1%<br>Neutral / no effect<br>1% → 99%<br>Full plus green                                                                                            |
| <b>4</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Cross Fade to Color</b><br>White → RGBW color<br><i>ONLY IF in calibrated mode, if X-fade to color is 100%.</i>                                                                                                                     |
| <b>5</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity red</b><br>0% → 100%                                                                                                                                                                                                      |
| <b>6</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity green</b><br>0% → 100%                                                                                                                                                                                                    |
| <b>7</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity blue</b><br>0% → 100%                                                                                                                                                                                                     |
| <b>8</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Intensity white</b><br><i>(While in calibrated RGBW, white point CCT and +/- green adjustments via channels 2 and 3)</i><br>0% → 100%                                                                                               |
| <b>9</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |

## 2.32 Mode 25: LE Control CCT & RGBW 16 bit

| DMX Channel |    | Value                                                                                                 | Percent                                                                 | Function                                                                                                                                                                                                                               |
|-------------|----|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HI          | LO |                                                                                                       |                                                                         |                                                                                                                                                                                                                                        |
| 1           | 2  | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| 3           | 4  | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Color Temperature CCT</b><br>2.800 K → 10.000 K                                                                                                                                                                                     |
| 5           | 6  | 0 – 4.587<br>4.588 – 9.931<br>9.932 – 30.044<br>30.045 – 40.077<br>40.078 – 60.190<br>60.191 – 65.535 | 0 – 7<br>8 – 15<br>16 – 46<br>47 – 61<br>62 – 92<br>93 – 100            | <b>Green / Magenta Point</b><br>Neutral / no effect<br>Full minus green<br>–99% → –1%<br>Neutral / no effect<br>1% → 99%<br>Full plus green                                                                                            |
| 7           | 8  | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Cross Fade to Color</b><br>White → RGBW color<br><i>ONLY IF in calibrated mode, if X-fade to color is 100%.</i>                                                                                                                     |
| 9           | 10 | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Intensity red</b><br>0% → 100%                                                                                                                                                                                                      |
| 11          | 12 | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Intensity green</b><br>0% → 100%                                                                                                                                                                                                    |
| 13          | 14 | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Intensity blue</b><br>0% → 100%                                                                                                                                                                                                     |
| 15          | 16 | 0 – 65.535                                                                                            | 0 – 100                                                                 | <b>Intensity white</b><br><i>(While in calibrated RGBW, white point CCT and +/- green adjustments via channels 3/4 and 5/6)</i><br>0% → 100%                                                                                           |
| 17          |    | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 – 255                      | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 – 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |

*Note: Fan Mode reverts to device menu setting, when DMX signal is lost.*

### 2.33 Mode 26: LE Control HSI 8 bit

| DMX Cannel                                                                                 | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>2</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Hue</b><br>0° → 360°                                                                                                                                                                                                                |
| <b>3</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Saturation</b><br>No saturation (white) → full saturation                                                                                                                                                                           |
| <b>4</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |

### 2.34 Mode 27: LE Control HSI 16 bit

| DMX Cannel                                                                                 |           | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HI</b>                                                                                  | <b>LO</b> |                                                                                  |                                                                         |                                                                                                                                                                                                                                        |
| <b>1</b>                                                                                   | <b>2</b>  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>3</b>                                                                                   | <b>4</b>  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Hue</b><br>0° → 360°                                                                                                                                                                                                                |
| <b>5</b>                                                                                   | <b>6</b>  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Saturation</b><br>No saturation (white) → full saturation                                                                                                                                                                           |
| <b>7</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> |           | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |

## 2.35 Mode 28: LE Control x,y Coordinates 8 bit

| DMX Channel                                                                                | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>2</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>X Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                       |
| <b>3</b>                                                                                   | 0 – 255                                                                          | 0 – 100                                                                 | <b>Y Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                       |
| <b>4</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 – 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 – 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |

## 2.36 Mode 29: LE Control x,y Coordinates 16 bit

| DMX Channel                                                                                |           | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>HI</b>                                                                                  | <b>LO</b> |                                                                                  |                                                                         |                                                                                                                                                                                                                                        |
| <b>1</b>                                                                                   | <b>2</b>  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Master Dimmer</b><br>Closed → open                                                                                                                                                                                                  |
| <b>3</b>                                                                                   | <b>4</b>  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>X Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                       |
| <b>5</b>                                                                                   | <b>6</b>  | 0 – 65.535                                                                       | 0 – 100                                                                 | <b>Y Coordinate</b><br>0.0 → 0.8                                                                                                                                                                                                       |
| <b>7</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> |           | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 – 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 – 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |

## 2.37 Mode 30: Ultimate DMX 8 bit

| DMX Cannel | Value                                                                               | Percent                                                                          | Function                                                                                                                                               |
|------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b>   | 0 – 255                                                                             | 0 – 100                                                                          | <b>Master Dimmer</b><br>Closed → open                                                                                                                  |
| <b>2</b>   | 0 – 9<br>10 – 19<br>20 – 29<br>30 – 39<br>40 – 49<br>50 – 59<br>60 – 69<br>70 – 255 | 0 – 4<br>5 – 7<br>8 – 11<br>12 – 16<br>17 – 19<br>20 – 23<br>24 – 27<br>28 – 100 | <b>Color Mode Selection 1</b><br>CCT & Green–Magenta Point<br>HSI<br>RGBW<br>Gel Selection<br>Source Matching<br>X,y Coordinate<br>Effects<br>Reserved |
| <b>3</b>   | See tables below                                                                    |                                                                                  | <b>Color Parameter #1</b>                                                                                                                              |
| <b>4</b>   |                                                                                     |                                                                                  | <b>Color Parameter #2</b>                                                                                                                              |
| <b>5</b>   |                                                                                     |                                                                                  | <b>Color Parameter #3</b>                                                                                                                              |
| <b>6</b>   |                                                                                     |                                                                                  | <b>Color Parameter #4</b>                                                                                                                              |
| <b>7</b>   |                                                                                     |                                                                                  | <b>Color Parameter #5</b>                                                                                                                              |
| <b>8</b>   |                                                                                     |                                                                                  | <b>Color Parameter #6</b>                                                                                                                              |
| <b>9</b>   |                                                                                     |                                                                                  | <b>Color Parameter #7</b>                                                                                                                              |
| <b>10</b>  |                                                                                     |                                                                                  | <b>Color Parameter #8</b>                                                                                                                              |
| <b>11</b>  | 0 – 255                                                                             | 0 – 100                                                                          | <b>Crossfade to Color</b><br>Color Mode Selection 1 → Color Mode Selection 2                                                                           |
| <b>12</b>  | 0 – 9<br>10 – 19<br>20 – 29<br>30 – 39<br>40 – 49<br>50 – 59<br>60 – 69<br>70 – 255 | 0 – 4<br>5 – 7<br>8 – 11<br>12 – 16<br>17 – 19<br>20 – 23<br>24 – 27<br>28 – 100 | <b>Color Mode Selection 2</b><br>CCT & Green–Magenta Point<br>HSI<br>RGBW<br>Gel Selection<br>Source Matching<br>X,y Coordinate<br>Effects<br>Reserved |
| <b>13</b>  | See tables below                                                                    |                                                                                  | <b>Color Parameter #1</b>                                                                                                                              |
| <b>14</b>  |                                                                                     |                                                                                  | <b>Color Parameter #2</b>                                                                                                                              |
| <b>15</b>  |                                                                                     |                                                                                  | <b>Color Parameter #3</b>                                                                                                                              |
| <b>16</b>  |                                                                                     |                                                                                  | <b>Color Parameter #4</b>                                                                                                                              |
| <b>17</b>  |                                                                                     |                                                                                  | <b>Color Parameter #5</b>                                                                                                                              |
| <b>18</b>  |                                                                                     |                                                                                  | <b>Color Parameter #6</b>                                                                                                                              |
| <b>19</b>  |                                                                                     |                                                                                  | <b>Color Parameter #7</b>                                                                                                                              |
| <b>20</b>  |                                                                                     |                                                                                  | <b>Color Parameter #8</b>                                                                                                                              |

| DMX Channel                                                                    | Value              | Percent          | Function                                                                        |
|--------------------------------------------------------------------------------|--------------------|------------------|---------------------------------------------------------------------------------|
| <b>21</b>                                                                      |                    |                  | <b>Fan Control</b>                                                              |
| <i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9              | 0 – 3            | Use <i>Fan Mode Setting</i> of device menu                                      |
|                                                                                | 10 – 57            | 4 – 22           | Quiet, Fan speed fixed                                                          |
|                                                                                | 58 – 105           | 23 – 41          | Variable, Fan speed variable                                                    |
|                                                                                | 106 – 153          | 42 – 60          | High Temp, Fan speed fixed                                                      |
|                                                                                | 154 – 201          | 61 – 78          | Use <i>Fan Mode Setting</i> of device menu                                      |
|                                                                                | 202 – 249          | 79 – 97          | Fan at Full Speed                                                               |
|                                                                                | 250 - 255          | 99 - 100         | Fan Off                                                                         |
| <b>22</b>                                                                      | 0 – 255            | 0 – 100          | <b>Preset</b><br>See Preset Channel [► 7]                                       |
| <b>23</b>                                                                      | 0 – 19<br>20 - 255 | 0 – 7<br>8 - 100 | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second |
| <b>24</b>                                                                      | 0 – 255            | 0 – 100          | <b>No function</b>                                                              |

## 2.38 Mode 31: Ultimate DMX 16 bit

| DMX Channel |    | Value            | Percent  | Function                                                                     |
|-------------|----|------------------|----------|------------------------------------------------------------------------------|
| HI          | LO |                  |          |                                                                              |
| 1           | 2  | 0 – 65.535       | 0 – 100  | <b>Master Dimmer</b><br>Closed → open                                        |
| 3           |    | 0 – 9            | 0 – 4    | <b>Color Mode Selection 1</b><br>CCT & Green–Magenta Point                   |
|             |    | 10 – 19          | 5 – 7    | HSI                                                                          |
|             |    | 20 – 29          | 8 – 11   | RGBW                                                                         |
|             |    | 30 – 39          | 12 – 16  | Gel Selection (no 16 bit mode)                                               |
|             |    | 40 – 49          | 17 – 19  | Source Matching (no 16 bit mode)                                             |
|             |    | 50 – 59          | 20 – 23  | X,y Coordinate                                                               |
|             |    | 60 – 69          | 24 – 27  | Effects                                                                      |
|             |    | 70 – 255         | 28 – 100 | Reserved                                                                     |
| 4           | 5  | See tables below |          | <b>Color Parameter #1</b>                                                    |
| 6           | 7  |                  |          | <b>Color Parameter #2</b>                                                    |
| 8           | 9  |                  |          | <b>Color Parameter #3</b>                                                    |
| 10          | 11 |                  |          | <b>Color Parameter #4</b>                                                    |
| 12          | 13 |                  |          | <b>Color Parameter #5</b>                                                    |
| 14          | 15 |                  |          | <b>Color Parameter #6</b>                                                    |
| 16          | 17 |                  |          | <b>Color Parameter #7</b>                                                    |
| 18          | 19 |                  |          | <b>Color Parameter #8</b>                                                    |
| 20          | 21 | 0 – 65.535       | 0 – 100  | <b>Crossfade to Color</b><br>Color Mode Selection 1 → Color Mode Selection 2 |
| 22          |    | 0 – 9            | 0 – 4    | <b>Color Mode Selection 2</b><br>CCT & Green–Magenta Point                   |
|             |    | 10 – 19          | 5 – 7    | HSI                                                                          |
|             |    | 20 – 29          | 8 – 11   | RGBW                                                                         |
|             |    | 30 – 39          | 12 – 16  | Gel Selection (no 16 bit mode)                                               |
|             |    | 40 – 49          | 17 – 19  | Source Matching (no 16 bit mode)                                             |
|             |    | 50 – 59          | 20 – 23  | X,y Coordinate                                                               |
|             |    | 60 – 69          | 24 – 27  | Effects                                                                      |
|             |    | 70 – 255         | 28 – 100 | Reserved                                                                     |
| 23          | 24 | See tables below |          | <b>Color Parameter #1</b>                                                    |
| 25          | 26 |                  |          | <b>Color Parameter #2</b>                                                    |
| 27          | 28 |                  |          | <b>Color Parameter #3</b>                                                    |
| 29          | 30 |                  |          | <b>Color Parameter #4</b>                                                    |
| 31          | 32 |                  |          | <b>Color Parameter #5</b>                                                    |
| 33          | 34 |                  |          | <b>Color Parameter #6</b>                                                    |
| 35          | 36 |                  |          | <b>Color Parameter #7</b>                                                    |
| 37          | 38 |                  |          | <b>Color Parameter #8</b>                                                    |

| DMX Channel                                                                                 | Value                                                                            | Percent                                                                 | Function                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>39</b><br><i>Note: Fan Mode reverts to device menu setting, when DMX signal is lost.</i> | 0 – 9<br>10 – 57<br>58 – 105<br>106 – 153<br>154 – 201<br>202 – 249<br>250 - 255 | 0 – 3<br>4 – 22<br>23 – 41<br>42 – 60<br>61 – 78<br>79 – 97<br>99 - 100 | <b>Fan Control</b><br>Use <i>Fan Mode Setting</i> of device menu<br>Quiet, Fan speed fixed<br>Variable, Fan speed variable<br>High Temp, Fan speed fixed<br>Use <i>Fan Mode Setting</i> of device menu<br>Fan at Full Speed<br>Fan Off |
| 40                                                                                          | 0 – 255                                                                          | 0 – 100                                                                 | <b>Preset</b><br>See Preset Channel [► 7]                                                                                                                                                                                              |
| 41                                                                                          | 0 – 19<br>20 - 255                                                               | 0 – 7<br>8 - 100                                                        | <b>Light Strobe Rate</b><br>No effect<br>1 flash / second → 25 flashes / second                                                                                                                                                        |
| 42                                                                                          | 0 – 255                                                                          | 0 – 100                                                                 | <b>No function</b>                                                                                                                                                                                                                     |

## 2.39 Ultimate DMX - Parameters

### 2.39.1 Color Mode Parameters

| Effect Parameter                     | Parameter | Value 8 bit | Value 16 bit    | Percent  | Function                                                       |
|--------------------------------------|-----------|-------------|-----------------|----------|----------------------------------------------------------------|
| <b>CCT &amp; Green-Magenta Point</b> | <b>1</b>  | 0 – 255     | 0 – 65.535      | 0 – 100  | <b>CCT Range</b><br>2.800 → 10.000 K                           |
|                                      | <b>2</b>  | 0 – 10      | 0 – 4.587       | 0 – 4    | <b>Green-Magenta Point</b><br>neutral / no effect              |
|                                      |           | 11 – 20     | 4.588 – 9.931   | 5 – 8    | full minus green                                               |
|                                      |           | 21 – 119    | 9.932 – 30.044  | 9 – 47   | –99% → –1%                                                     |
|                                      |           | 120 – 145   | 30.045 – 40.077 | 48 – 57  | neutral / no effect                                            |
|                                      |           | 146 – 244   | 40.078 – 60.190 | 58 – 96  | 1% → 99%                                                       |
|                                      |           | 245 – 255   | 60.191 – 65.535 | 97 - 100 | full plus green                                                |
|                                      |           |             |                 |          |                                                                |
| <b>HSI</b>                           | <b>1</b>  | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Hue</b><br>0° → 360°                                        |
|                                      | <b>2</b>  | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Saturation</b><br>No saturation (white) → full saturation   |
| <b>RGBW</b>                          | <b>1</b>  | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Intensity red</b><br>0% → 100%                              |
|                                      | <b>2</b>  | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Intensity green</b><br>0% → 100%                            |
|                                      | <b>3</b>  | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Intensity blue</b><br>0% → 100%                             |
|                                      | <b>4</b>  | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>Intensity white</b><br>0% → 100%                            |
|                                      | <b>5</b>  | 0 - 255     | 0 – 65.535      | 0 - 100  | <b>White Point CCT</b><br>2.800 → 10.000 K                     |
|                                      | <b>6</b>  | 0 – 10      | 0 – 4.587       | 0 – 4    | <b>White Point -Green-Magenta Point</b><br>neutral / no effect |
|                                      |           | 11 – 20     | 4.588 – 9.931   | 5 – 8    | full minus green                                               |
|                                      |           | 21 – 119    | 9.932 – 30.044  | 9 – 47   | –99% → –1%                                                     |
|                                      |           | 120 – 145   | 30.045 – 40.077 | 48 – 57  | neutral / no effect                                            |
|                                      |           | 146 – 244   | 40.078 – 60.190 | 58 – 96  | 1% → 99%                                                       |
|                                      |           | 245 – 255   | 60.191 – 65.535 | 97 - 100 | full plus green                                                |
|                                      |           |             |                 |          |                                                                |

| Effect Parameter | Parameter | Value 8 bit          | Value 16 bit                                                                                                                | Percent            | Function                                                                                                                                                        |
|------------------|-----------|----------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gel Selection    | 1         | 0 – 127              | Notice:<br>No 16 bit GEL mode available in Ultimate DMX Mode.<br><br>Uses only “HI” channels, LO channels default value = 0 | 0 – 50             | <b>Gel, CCT Selection</b><br>3,200 K                                                                                                                            |
|                  |           | 128 - 255            |                                                                                                                             | 51 - 100           | 5,600 K                                                                                                                                                         |
|                  | 2         | 0 – 84               |                                                                                                                             | 0 – 33             | <b>Gel, Color Matching Selection</b><br>Best Color<br><i>Note: Color quality optimized</i>                                                                      |
|                  |           | 85 – 170             |                                                                                                                             | 34 – 67            | Brightest<br><i>Note: Color brightness optimized</i>                                                                                                            |
|                  |           | 171 - 255            |                                                                                                                             | 68 - 100           | No Color Gel                                                                                                                                                    |
|                  | 3         | 0 – 127<br>128 - 255 |                                                                                                                             | 0 – 50<br>51 - 100 | <b>Gel, Brand</b><br>Rosco<br>LEE filters                                                                                                                       |
|                  | 4         | 0 – 50               |                                                                                                                             | 0 – 20             | <b>Gel, Category</b><br><i>Choose Gel manufacturer on parameter 3</i><br>Category 1, Rosco, Color Correction [▶ 28]<br>Category 1, LEE, Color Correction [▶ 33] |
|                  |           | 51 – 101             |                                                                                                                             | 21 – 39            | Category 2, Rosco, CalColor [▶ 29]<br>Category 2, LEE, Color Filters [▶ 34]                                                                                     |
|                  |           | 102 – 152            |                                                                                                                             | 40 – 60            | Category 3, Rosco, Storaro Selection [▶ 30]<br>Category 3, LEE, 600 Series [▶ 37]                                                                               |
|                  |           | 153 – 203            |                                                                                                                             | 61 – 80            | Category 4, Rosco, Cinelux [▶ 31]<br>Category 4, LEE, Cosmetic Filters [▶ 37]                                                                                   |
|                  |           | 204 - 255            |                                                                                                                             | 81 - 100           | Category 5, LEE, 700 Series [▶ 38]                                                                                                                              |
|                  | 5         | 0 - 255              |                                                                                                                             | 0 - 100            | <b>Gel</b><br>See Modes 16 and 17:<br>Gel V2 8 bit / 16 bit. Gel selection channel [▶ 28]                                                                       |

| Effect Parameter       | Parameter | Value 8 bit                                               | Value 16 bit                                                                                                                                 | Percent                                             | Function                                                                                   |
|------------------------|-----------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Source Matching</b> | <b>1</b>  | 0 – 50<br>51 – 101<br>102 – 152<br>153 – 203<br>204 – 255 | <i>Notice:<br/>No 16 bit Source matching mode available in Ultimate DMX Mode.<br/>Uses only “HI” channels, LO channels default value = 0</i> | 0 – 20<br>21 – 39<br>40 – 59<br>60 – 79<br>80 – 100 | <b>Category</b><br>Incandescent<br>Fluorescent<br>Discharge<br>Other<br><b>No function</b> |
|                        | <b>2</b>  | 0 - 255                                                   |                                                                                                                                              | 0 - 100                                             | <b>Source</b><br>Source Matching Sources [► 43]                                            |
| <b>XY Coordinates</b>  | <b>1</b>  | 0 - 255                                                   | 0 – 65.535                                                                                                                                   | 0 - 100                                             | <b>X Coordinate</b><br>0.0 – 0.8                                                           |
|                        | <b>2</b>  | 0 - 255                                                   | 0 – 65.535                                                                                                                                   | 0 - 100                                             | <b>Y Coordinate</b><br>0.0 – 0.8                                                           |
| <b>Effects</b>         | <b>1</b>  | 0 – 9                                                     | 0 – 2304                                                                                                                                     | 0 – 4                                               | <b>Effect Selection</b><br>No Effect                                                       |
|                        |           | 10 – 19                                                   | 2305 – 4864                                                                                                                                  | 5 – 7                                               | Party Effect                                                                               |
|                        |           | 20 – 29                                                   | 4865 – 7424                                                                                                                                  | 8 – 11                                              | Candle                                                                                     |
|                        |           | 30 – 39                                                   | 7425 – 9984                                                                                                                                  | 12 – 15                                             | Clouds Passing                                                                             |
|                        |           | 40 – 49                                                   | 9985 – 12544                                                                                                                                 | 16 – 19                                             | Club Lights                                                                                |
|                        |           | 50 – 59                                                   | 12545 – 15104                                                                                                                                | 20 – 23                                             | Color Chase                                                                                |
|                        |           | 60 – 69                                                   | 15105 – 17664                                                                                                                                | 24 – 27                                             | Cop Car                                                                                    |
|                        |           | 70 – 79                                                   | 17665 – 20224                                                                                                                                | 28 – 31                                             | Fire                                                                                       |
|                        |           | 80 – 89                                                   | 20225 – 22784                                                                                                                                | 32 – 35                                             | Fireworks                                                                                  |
|                        |           | 90 – 99                                                   | 22785 – 25344                                                                                                                                | 36 – 39                                             | Light Strobe                                                                               |
|                        |           | 100 – 109                                                 | 25345 – 27904                                                                                                                                | 40 – 43                                             | Lightning                                                                                  |
|                        |           | 110 – 119                                                 | 27905 – 30464                                                                                                                                | 44 – 47                                             | Paparazzi                                                                                  |
|                        |           | 120 – 129                                                 | 30465 – 33024                                                                                                                                | 48 – 51                                             | Pulsing                                                                                    |
|                        |           | 130 – 139                                                 | 33025 – 35584                                                                                                                                | 52 – 55                                             | Television                                                                                 |
|                        |           | 140 – 149                                                 | 35585 – 38144                                                                                                                                | 56 – 58                                             | Explosion                                                                                  |
|                        |           | 150 – 159                                                 | 38145 – 40704                                                                                                                                | 59 – 62                                             | Fluorescent Flicker                                                                        |
|                        |           | 160 – 169                                                 | 40705 – 43264                                                                                                                                | 63 – 66                                             | Process Effect                                                                             |
|                        |           | 170 – 179                                                 | 43265 – 45824                                                                                                                                | 67 – 70                                             | Welding                                                                                    |
|                        |           | 180 – 255                                                 | 45825 – 65535                                                                                                                                | 71 – 100                                            | <b>No function</b>                                                                         |
|                        | <b>2</b>  | See Lighting Effects - Parameters [► 49]                  |                                                                                                                                              |                                                     | <b>Effect Parameter 1</b>                                                                  |
|                        | <b>3</b>  |                                                           |                                                                                                                                              |                                                     | <b>Effect Parameter 2</b>                                                                  |
|                        | <b>4</b>  |                                                           |                                                                                                                                              |                                                     | <b>Effect Parameter 3</b>                                                                  |
|                        | <b>5</b>  |                                                           |                                                                                                                                              |                                                     | <b>Effect Parameter 4</b>                                                                  |
|                        | <b>6</b>  |                                                           |                                                                                                                                              |                                                     | <b>Effect Parameter 5</b>                                                                  |
|                        | <b>7</b>  |                                                           |                                                                                                                                              |                                                     | <b>Effect Parameter 6</b>                                                                  |
|                        | <b>8</b>  |                                                           |                                                                                                                                              |                                                     | <b>Effect Parameter 7</b>                                                                  |

### 3 Equations for CCT Conversion

#### 8 bit resolution

*Calculation of DMX value for a certain CCT value*

$$\text{DMX} = \frac{\text{CCT} - 2800}{28.235}$$

*Calculation of CCT value for a certain DMX value*

$$\text{CCT} = (\text{DMX} \times 28.235) + 2800$$

The results must be mathematically rounded up or down to a whole number.

#### 16 bit resolution

*Calculation of DMX value for a certain CCT value*

$$\text{DMX} = \frac{\text{CCT} - 2800}{0.109865}$$

*Calculation of CCT value for a certain DMX value*

$$\text{CCT} = (\text{DMX} \times 0.109865) + 2800$$

The results must be mathematically rounded up or down to a whole number.

| Quick References 8 bit     | Quick References 16 bit      |
|----------------------------|------------------------------|
| 2800 K – DMX value of 0    | 2800 K – DMX value of 0      |
| 3200 K – DMX value of 14   | 3200 K – DMX value of 3640   |
| 4300 K – DMX value of 53   | 4300 K – DMX value of 13653  |
| 5600 K – DMX value of 99   | 5600 K – DMX value of 25485  |
| 6500 K – DMX value of 131  | 6500 K – DMX value of 33678  |
| 10000 K – DMX value of 255 | 10000 K – DMX value of 65535 |

Notes





**ARRI** 