

MENU

RECORDING

Recording Codec [Apple ProRes 422 HQ, 4444, 4444 XQ or ARRIRAW]

Sensor Mode [4.6K 3:2 Open Gate
4.6K 16:9
4K 16:9
4K 2:1
3.3K 6:5
3K 1:1]

Recording Resolution [4K (4096x2304)
depends on Codec UHD (3840x2160)
and Sensor Mode 2K (2048x1152)
HD (1920x1080)
3.3K (3328x2790)
4K 2.39:1 Ana 2x
3K (3072x3072)
3.8K 2:1 Ana 2x]

PROJECT SETTINGS

Project Rate [23.976p, 24p, 25p, 29.97p, 30p, 48p, 50p, 59.94p and 60p]
Next Reel Count [1 - 9999]
Camera Index [A_ - ZZ]
Camera Index Color [Red, Green, Blue, Cyan, Magenta, Yellow, Black, White]
Lens Squeeze Factor [1.00, 1.25, 1.30, 1.33, 1.50, 1.65, 1.80, 1.85 and 2.00]

REC BEEPER/TALLY

Rec Start Beeper [On, Off]
Rec Stop Beeper [On, Off]
Media Full Beeper [On, Off]
Tally MVF-2 [On, Off]

PRERECORDING MAX. DURATION

Prerec Duration [1-20s | 5s]

AUDIO RECORDING

Audio Recording [On, Off]
Channel 1/2/3/4 Source [None, Line In L/R, AEM-1 L/R, Internal Mic L/R]
Channel 1/2/3/4 Control [if Source = Line In L/R: Manual Gain, Manual Gain + Lim, Auto Gain]
Channel 1/2 Control [Manual, Manual + L, Auto]
VF Headphone Routing for Channel 1-4 [Off, L, L+R, R]
VF Headphone Volume [0-30 | 20]
Test Tone [Off, -9dBFS, -18dBFS, -20dBFS]

MEDIA

Erase Media...
erases files on Compact Drive
Prepare USB Medium...
creates necessary folders on USB drive

MONITORING

VF

Surround View [On, Off]
EVF Surround Mask [Black Line, Colored Line, 25% Mask, 50% Mask, 75% Mask and 100% Mask]
Monitor Surround Mask [Black Line, Colored Line, 25% Mask, 50% Mask, 75% Mask and 100% Mask]

MONITORING cont.

Magnification [100% - 200% | 100%]

SETTINGS

EVF Brightness [120, 200 and 300]
EVF Power [Auto, Off, On]
EVF Eyepiece Heating [On, Off]
EVF Image Rotation 180° [On, Off]
Monitor Brightness [1 - 10 | 6]
Monitor Flip Mode [Auto, Normal, Flipped]

EVF OVERLAYS

Frame Lines [On, Off]
Center Mark [Off, Dot, Small Dot, Cross, Samll Cross]
Status Info [Off, Overlay and Safe]

STATUS COMPONENTS

Electronic Horizon [On, Off]
Show Numeric Values [On, Off]
Lens Data [On, Off]
Lens Focus Distance [On, Off]
Distance Measure [On, Off]
Master Grips/OCU-1 Control [On, Off]
Info Left/Right/Top/Bottom [On, Off]
Audio [On, Off]
Timecode [On, Off]

Overlay Brightness [1 - 4]

MONITOR OVERLAYS

Frame Lines [On, Off]
Center Mark [Off, Dot, Small Dot, Cross, Small Cross]
Electronic Horizon [On, Off]
Show Numeric Values [On, Off]

SDI

SDI 1 PROCESSING

Surround View [On, Off]
Surround Mask [Black Line, Colored Line, 25% Mask, 50% Mask, 75% Mask and 100% Mask]
Magnification [100% - 200% | 100%]

OVERLAYS

Frame Lines [On, Off]
Center Mark [Off, Dot, Small Dot, Cross, Small Cross]
Status Info [Off, Overlay and Safe]

STATUS COMPONENTS

Camera Index Letter [On, Off]
Electronic Horizon [On, Off]
Show Numeric Values [On, Off]
Lens Data [On, Off]
Lens Focus Distance [On, Off]

Distance Measure [On, Off]
Master Grips/OCU-1 Control [On, Off]
Info Left/Right/Top/Bottom [On, Off]
Audio [On, Off]
Timecode [On, Off]
Overlay Brightness [1 - 4]

False Color [On, Off]
Peaking [On, Off]
Hide Messages [On, Off]

SDI 1 Image [Clean, Processed]

SDI 1 format [422 1.5G HD, 422 3G HD, 444 3G HD, 422 6G UHD, 422 12G UHD, 444 12G UHD]

SDI 1 frame rate [23.976p, 24p, 25p, 29.97p, 30p, 48p, 50p, 59.94p, 60p, 23.976psf, 24psf, 25psf, 29.97psf, 30psf]

SDI 1 3G level [Level A, Level B] A only for 444

MONITORING cont.

SDI 2 PROCESSING

Surround View [On, Off]
Surround Mask [Black Line, Colored Line, 25% Mask, 50% Mask, 75% Mask and 100% Mask]
Magnification [100% - 200% | 100%]

OVERLAYS

Frame Lines [On, Off]
Center Mark [Off, Dot, Small Dot, Cross, Small Cross]
Status Info [Off, Overlay and Safe]

STATUS COMPONENTS

Camera Index Letter [On, Off]
Electronic Horizon [On, Off]
Show Numeric Values [On, Off]
Lens Data [On, Off]
Lens Focus Distance [On, Off]
Distance Measure [On, Off]
Master Grips/OCU-1 Control [On, Off]
Info Left/Right/Top/Bottom [On, Off]
Audio [On, Off]
Timecode [On, Off]
Overlay Brightness [1 - 4]

False Color [On, Off]
Hide Messages [On, Off]

SDI 2 Image [Clean, Processed]

SDI 2 format [422 1.5G HD, 422 3G HD, 444 3G HD, 422 6G UHD, 422 12G UHD, 444 12G UHD]

SDI 2 frame rate [23.976p, 24p, 25p, 29.97p, 30p, 48p, 50p, 59.94p, 60p, 23.976psf, 24psf, 25psf, 29.97psf, 30psf]

SDI 2 3G level [Level A, Level B] A only for 444

Master Magnification [100% - 200% | 100%]

FRAME LINES

Frame Line [none]
choose/add custom/delete frame lines

FRAME LINE DISPLAY

Frame Line A/B/C [On, Off]
Frame Line Color [Red, Green, Blue, Cyan, Magenta, Yellow, Black, White]
Frame line Opacity [1-4 | 3]

OUTSIDE SHADING

EVF Outs. Shad. [Off, 25%, 50%, 75%, 100%]
Monitor Outs. Shad. [Off, 25%, 50%, 75%, 100%]
SDI 1 Outs. Shad. [Off, 25%, 50%, 75%, 100%]
SDI 2 Outs. Shad. [Off, 25%, 50%, 75%, 100%]

USER RECTANGLES

User rectangles [Off, Rect 1, Rect 2, Rect 1+2]
User rectangle 1/2 Width [0-999]
User rectangle 1/2 Height [0-999]
User rectangle 1/2 Offset Top [0-999]
User rectangle 1/2 Offset Left [0-999]
User rectangle 1/2 Reset all

PEAKING

VF Peaking Mode [Aperture, Color]
VF Peaking Level [1 - 20 | 5]
VF Peaking Offset Shift [-5 - +5 | 0]
VF Peaking Color [Red, Green, Blue, Cyan, Mag, Yellow, White]
SDI 1 Peaking Mode [Aperture, Color]
SDI 1 Peaking Level [1 - 20 | 5]
SDI 1 Peaking Offset Shift [-5 - +5 | 0]
SDI 1 Peaking Color [Red, Green, Blue, Cyan, Mag, Yellow, White]

MONITORING cont.

RETURN IN

Use SDI 2 as Return In [On, Off]
Show Return In on VF [On, Off]
Show Return In on SDI 1 [On, Off]
SDI Color Bars [On, Off]

LOOK

Look
choose/add custom/delete look | Default
Look Intensity [10%, 20%, 30%, 40%, 50%... 100%]
VF Processing [LogC4, Look (SDR), Look (EVF:HDR, Mon:SDR)]
SDI 1/2 Processing [LogC4, Look]
SDI 1/2 Color Space [REC 709 (SDR), REC 2020 (SDR), REC 2100/PQ (HDR), REC 2100/HLG (HDR)]
Texture
choose a texture | K445 Default
Mirror Image [Off, V, H, V+H]

SYSTEM

SENSOR

Genlock [Off, SYNC IN or TC IN]
Sync Shift (0.000 µs) [+/-6189500 µs | 0 µs]
User Pixel Masking
Install User Pixel Mask
Export User Pixel Mask
Delete User Pixel Mask
Grab Raw Image
Fan Mode [Rec Low, Low Noise]
Shutter Unit [Exposure Time, Shutter Angle]

POWER

Priority [Power In (PWR), Onboard Bat. (BAT), Highest Voltage]
Power In (PWR) Warning (%) [0-99% | 10%]
Power In (PWR) Warning (V) [19.0-35.0V | 22.0V]
Onboard Battery (BAT) Warning (%) [0-99% | 10%]
Onboard Battery (BAT) Warning (V) [19.0-35.0V | 22.0V]
BAT Unit Preference [Percent, Volt]
Enable PWR/BAT LEDs [On, Off]
BAT Auto Boot Up [On, Off]

SYSTEM TIME + DATE

set Year, Month, Day, Hour, Minute

Buttons + Display
Display style [Day, Night]
Button + LED brightness [0-3 | 1]

CAMERA ACCESS PROTOCOL (CAP)

Enable CAP Server [On, Off]
CAP Server Password...
set password
CAP Client List...
view connected devices

NETWORK/WIFI

WiFi power [On, Off]
WiFi Mode [Host, Client]
WiFi Host Password...
set password

SYSTEM cont.

WiFi Host Channel [1-11 | 1]

WIFI NETWORK

if Mode = Client: choose network
LAN IP Mode [Static, DHCP]
LAN Static IP [192.168.0.100]
LAN Static Subnet [255.255.255.0]

LICENSES

install/uninstall licenses

UPDATE

Update Camera...
Update LBUS Devices...
Update MVF-2...
Update Lens Mount...
Update PDM-1...

RESET ELECTRIC HORIZON

recalibrate roll & tilt
Language [English, 中文]

SETUP

User Setups Installed...
save/load/delete/export User Setups
User Setups On USB...
save/load/import User Setups from USB drive
Factory Reset...
load factory default settings

USER BUTTONS

define User Button functions for
Button VF 1 and VF 2
Camera User Buttons 1 to 9
Hand Unit User Buttons 1 to 6
LBUS Device User Buttons 1 to 12
GPIO User Buttons 1 to 14
Lens RET

POSSIBLE FUNCTIONS

Off
VF Status info
VF Check LogC4
VF False Color
VF Frame Lines
VF Peaking
VF Surround View
VF Zoom
VF Zoom Position
SDI 1/2 Status info
SDI 1/2 Check LogC4
SDI 1/2 False Color
SDI 1/2 Frame Lines
SDI 1/2 Peaking
SDI 1/2 Surround View
SDI 1/2 Zoom
SDI 1/2 Zoom Position
SDI 1/2 Zoom (Smart)
EI In-/Decrease
FPS In-/Decrease
ND In-/Decrease

SYSTEM cont.

Shutter In-/Decrease
WB In-/Decrease
Audio CH-1 In-/Decrease
Audio CH1+2 In-/Decrease
Audio Solo
Auto WB
Check Last Clip
Flip Monitor
Frame Grab
Mirror Image
Playback
Prerecording
Record Start/Stop
Return In

METADATA

set metadata fields:

Production
Production Company
Director
Cinematographer
Camera Operator
Location
Scene
Take
User Info 1/2

Lens & ECS

LENS DATA

Lens Tables Installed...
see/add/delete/export Lens Tables
Lens Table Favorites...
see/add/delete/export Lens Tables
Add to Favorites
Clear Lens Table
clears active Lens Tables

Calibrate All Motors

LBUS LENS MOTOR CONFIGURATION

Focus/Iris/Zoom Motor Torque [1-4 | 3]
Focus/Iris/Zoom Motor Direction [Left, Right]
Focus/Iris/Zoom Motor Teeth Count [Auto, 40t, 50t, 60t]

RADIO

Power [On, Off]
Channel [0-13 | 4]
Status [info] [Off, Initializing, Ready]
Connected devices [info]
see number of connected devices
Wireless Region Setting [Australia, Canada, China, Egypt, Europe, Hong Kong, India, Israel, Japan, New Zealand, Philippines, Singapore, South Africa, South Korea, Taiwan, Thailand, UAE, USA, World]
Focus Unit [Lens default, Imperial, Metric]
Enable lens mount [On, Off]

HOME

FPS

set sensor speed [0.750 - 120.000fps | 24.000fps]
add/delete value

TC

view timecode

OPTIONS

Timecode
reset/set to time
Run mode [Free run, Rec run]
Mode [Regen, Preset, Jam sync]
Regen source [LTC in, Media] *set by menu*
Count mode [Non-Dropframe, Dropframe]
TC Offset [+/-20 | 0]

SHUTTER

set shutter angle
add/delete value

resulting exposure time shown in info pane

EI

set exposure index [160 - 3600,
2560 ES - 6400 ES | 800]

ES limitation shown in info pane

IRIS

view current iris readout (LDS 1 or 2 lens required)

ND

set ND filter [ND -, ND 0.6, ND 1.2, ND 1.8]

WB

set white balance [2.000 - 11.000K +/-16.0CC | 5600K 0.0CC]
add/delete/rename values

AUTO WB

press two times to trigger auto white balance
(follow instructions on screen)

MENU CONT.

INFO

get info on:

Version
System
False Color
PWR/BAT LED
Media
USB
Network
Lens
User Button

export log and info files:

Export HW Info File...
Export Log Files...