MENU

RECORDING

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

Sensor Mode [4.6K 3:2 Open Gate, 4.6K 16:9, 4K 16:9, 4K 2:1, 3.8K 16:9, 3.8K 2.39:1, 3.3K 6:5, 2.7K 8:9, 2K 16:9 S16]

Recording Resolution [4K (4096x2304), UHD (3840x2160)
depends on Codec   2K (2048x1152), HD (1920x1080)
and Sensor Mode   3.3K (3328x2790), 4K 2.39:1 Ana 2x
3K (3072x3072), 3.8K 2:1 Ana 2x,
UHD 16:9 Ana 2x, 2K (2048x1152)]

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 [1-300s | 5s]

AUDIO RECORDING
Audio Recording [On, Off]
Gain Levels...
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]
VF Headphones Routing for Channel 1-4 [Off, L, L+R, R]
VF Headphones Volume [0-30 | 20]
Reference 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]
Magnification [100% - 200% | 100%]

SETTINGS
EVF Brightness [120, 200 and 300]
EVF Lifted Black [On, Off]
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]
Depth of Field [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 1/2 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]
Peaking [On, Off]
Hide Messages [On, Off]

MONITORING cont.

SDI 1/2 Image [Clean, Processed, Clone SDI 1 (SDI 2 only)]
SDI 1/2 Format [422 1.5G HD, 422 3G HD, 444 3G HD, 422 6G UHD, 422 12G UHD, 444 12G UHD]
SDI 1/2 Frame Rate [23.976p, 24p, 25p, 29.97p, 30p, 48p, 50p, 59.94p, 60p, 23.976psf, 24psf, 25psf, 29.97psf, 30psf]
SDI 1/2 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]

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]

IMAGE

LOOK
Look
choose/add custom/delete look | Default
Look Intensity [10%, 20%, 30%, 40%, 50%... 100%]*ACM only
VF Processing [LogC4, Look (SDR), Look (EVF:HDR, Mon:SDR)]
SDI 1/2 Processing [LogC4, LogC4 Wireless Video Optimized, Look]
SDI 1/2 Color Space [REC 709 (SDR), REC 2020 (SDR), REC 2100/PQ (HDR), REC 2100/HLG (HDR)]

TEXTURE
Texture
choose/add custom/delete 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) [+/-20833.333 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]
MVF-2 Touch [On, Off]

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
WiFi Host Channel [Automatic or 1-11 | Automatic]

WIFI NETWORK
if Mode = Client: choose network

STREAMING METADATA
Enable Streaming [On, Off]
Streaming Addressing [Unicast, Multicast]
Streaming Address [192.168.0.123]
Streaming Port [5432; 1024 - 65535]

LAN IP Mode [Static, DHCP]
LAN Static IP [192.168.0.100]
LAN Static Subnet [255.255.254.0]
LAN Static Gateway [0.0.0.0]

SYSTEM cont.

LICENSES
install/uninstall licenses

UPDATE
Update Camera...
Update LBUS Devices...
Update MVF-2...
Update Lens Mount...
Update Media...
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
Camera User Buttons (1 to 9)
MVF-2 User Buttons (VF1 & VF2)
Monitor User Buttons (M, 1, 2, 3, 4)
Hand Unit User Buttons (1 to 6)
LBUS Device User Buttons (1 to 12)
GPIO User Buttons (1 to 14)
Lens Buttons
Lens RET (1 to 4)
Lens ENG, Lens PROD, and Lens VTR

POSSIBLE FUNCTIONS
Off
VF Status info
VF Check LogC4
VF Check HDR
VF Desqueeze
VF False Color
VF Frame Lines
VF Lifted Black
VF Peaking
VF Processing
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)

USER BUTTONS cont.

SDI Color Bars
EI In-/Decrease
FPS In-/Decrease
FPS Preset
ND In-/Decrease
Shutter In-/Decrease
WB In-/Decrease
Audio CH-1/2 In-/Decrease
Audio Mute int. Mic
Audio Solo
Auto WB
Calibrate Lens Motors
Check Last Clip
EF Open/Close Iris
Flip Monitor
Frame Grab
Hand Unit Nudge
Mirror Image
Playback
Prerecording
Record Start/Stop
Return In
WiFi Power

RT1
RT2
ENG
PRD
LPM-1 Return In

LENS & ECS

LENS DATA
info on active lens
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 Lens Motors

LBUS MOTOR CONFIGURATION
Focus/Iris/Zoom Motor Torque [1-4 | 3]
Focus/Iris/Zoom Motor Direction [Left, Right]
Focus/Iris/Zoom M. 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... to World]

Focus Unit [Lens Default, Imperial, Metric]
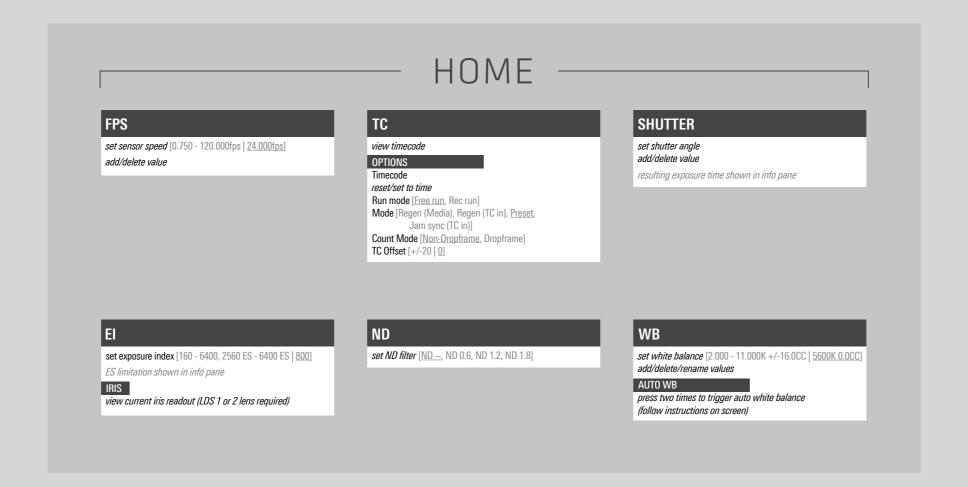
DIOPTER COMPENSATION
Diopter Type [none, Imp. V, Ensō VE, Front]
Diopter Selection [depends on above]
Diopter to Sensor Distance [0.0cm]*FRONT ONLY
Shim Thickness [0.00mm]*ALL BUT FRONT
Diopter Compensation [On, Off]
Focus Range (*info*) [shows close/far focus]*FRONT ONLY
Circle of Confusion [0.009, 0.013, 0.025, 0.035, 0.05]
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 (Media), Regen (TC in), Preset,
Jam sync (TC in)]
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 - 6400, 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.

METADATA
set metadata fields:
Production
Production Company
Director
Cinematographer
Camera Operator
Location
Scene
Take
User Info 1/2

INFO
get info on:
Version
System
False Color
PWR/BAT LED
Media
USB
Network
Lens
User Button
and export logs and info files:
Export HW Info File...
Export Logfiles...

ALERTS
view alerts and warnings

PLAYBACK

PLAY
skip rev/fwd, see clip list

OPTIONS
Play End Mode [Pause on end, Pause on start, Loop,
Play next clip, Exit playback]