OLED OLED panel   ◑ 1,000,000:1 Contrast ratio

KUM-3110S

4K Native 4K Resolution   **HDR** High Dynamic Range   **P3** P3 Gamut 99% Coverage   **BT.2020** BT.2020 Gamut 80% Coverage   **OLED** OLED Panel
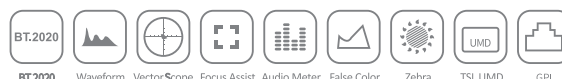
31" 4K HDR P3 OLED MONITOR

KUM-3110S is a 31 inch OLED 4K HDR reference monitor with 2x12G-SDI & 2x3G-SDI inputs/outputs. Its color gamut can reach more than 99% of DCI-P3 and 80% of BT2020. With 1,000,000:1 ultra-high contrast ratio and 0.0005 nit truer, deeper black, it can reproduce incredible black details and can be used for up to 30,000 hours. It is a good choice for professional and high-quality 4K color grading, post-production etc.

BT.2020 BT.2020   Waveform   Vector Scope   Focus Assist   Audio Meter   False Color   Zebra   TSL UMD   GPI

Main Body

Specifications

- 3840x2160 4K resolution, 10Bit LCD panel
- Wider Gamut Coverage: 99% DCI-P3, over 80% ITU-R BT.2020
- 12 Bit Video Processing, Anti-Burn-In Technology
- 2 x 12G-SDI inputs and outputs (6G/3G/HD/SD-SDI auto detect)
- 4K 12G-SDI single link signal, upto 4096 x 2160 60P
- 4K signal: 2 Sample Interleave (2SI), Square Division (SQD)
- 1 x HDMI 2.0 input, 1 x SDI SFP+ module optical input cage
- 4K Mode, Quad-Split Mode, FHD single picture mode
- 4 x SDI/HDMI Quad-View: mixed inputs&frequency rates
- Free Quad-View(boarder control/window adjustment)
- SDR and HDR comparison, HDR Auto Setting
- S1- S8 Eight Selectable Scene Settings
- Firmware upgrade/LUT file import via USB/Ethernet
- Payload ID, Dynamic and Static UMD/IMD Display
- GPI (selectable/markable windows)
- 3D LUT Color calibration with LightSpace & CalMAN
- Color Gamut (REC709/EBU/DCI-P3 D65/DCI-P3/REC2020/Bypass)
- HDR: PQ (ST2084) , HLG(1.0, 1.1, 1.2, 1.3, 1.4, 1.5)
- Sony Camera Log Curves: Slog, Slog2, Slog3
- Canon Camera Log Curves: Clog, Clog2, Clog3
- ARRI Camera Log Curves: LogC
- Panasonic Camera Log Curves: Vlog, Vlog(softroll)
- 3rd-party 3D LUT files import (USER1/USER2)， Gamma (2.0, 2.2, 2.4, 2.6)
- 4K HDR Waveform, Vector Scope, Black Lift
- Picture Flip, Focus Assist, False Color, Zebra
- Marker/Outside Box Control Adjustment
- Scan, Blue/Mono Only
- 16ch Embedded Audio Level Meters
- 608/708 CC Closed Caption
- Key Lock, Video Freeze
- 30,000 hours life span

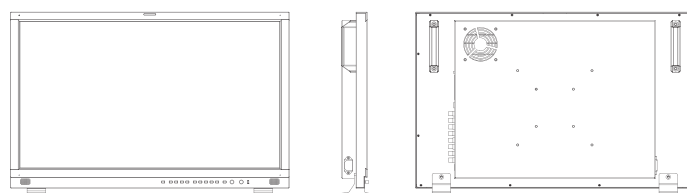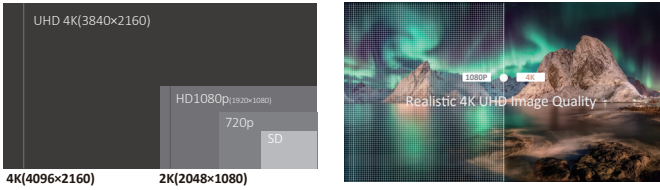| Panel	
Model No.	KUM-3110S
Display Type	OLED, 99% P3
Size	31.5"
Resolution	3840× 2160
Aspect Ratio	16 : 9
Viewing Angle	178°(H) / 178°(V)
Color Depth	1.07B
Brightness	540 cd/m²（Peak Brightness）
Contrast Ratio	1,000,000:1
Input	
1 x SDI SFP+	SDI SFP+ input cage
1 × HDMI 2.0	HDMI 2.0 Signal
2 x BNC	12G-SDI 1/2 signal inputs *(Auto-detected and compatible to 6G/3G/HD/SD-SDI)*
2 x BNC	3G-SDI 3/4 signal inputs （3G/HD/SD-SDI auto detected）
Output	
2 x BNC	12G-SDI 1/2 signal outputs *(Auto-detected and compatible to 6G/3G/HD/SD-SDI)*
2 x BNC	3G-SDI 3/4 signal outputs （3G/HD/SD-SDI auto detected）
Audio In & Out	
SDI/HDMI Audio In	16 Channels SDI 2 Channels HDMI embedded audio
Audio Meter Display	Vertical Horizontal audio level meter display
Audio Headset Output	3.5mm headset jack
Built-in Speaker	2.5W×2
General	
Input Voltage	AC 100-240V 50/60Hz
Power Consumption	100 W
VESA Installation	VESA MIS-D (200×200mm)
Accessory	Power Cord /Desktop stand

¤ Specifications may be changed without prior notice.

4K Signal, Native 4K Resolution

Native 4K resolution, 4K 12G-SDI single link supports utmost 4096 x 2160 60p format, 2 x 12G-SDI signal inputs and outputs (auto detected 6G/3G/HD/SD-SDI), 1xHDMI2.0 input, 1xSDI SFP+ module input cage.

UHD 4K(3840×2160)
HD1080p(1920x1080)
720p
SD
4K(4096×2160)   2K(2048×1080)

Realistic 4K UHD Image Quality
1080P   4K

Unparalleled black level

Featuring a 1,000,000:1 contrast ratio with an absolute black of 0.0005 nit, OLED panel reproduces extreme black details, and brings a stunning experience.
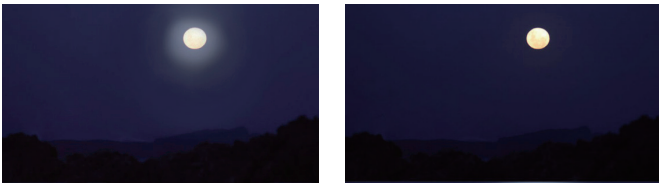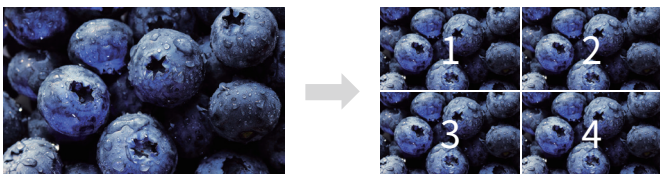

Quad View Mode

You can input 4x independent SDI sources or 3x independent SDI sources and 1x HDMI source to quadview, support different SDI or HDMI format mixed inputs with different frequency rate.

SDI or HDMI
4K(4096x2160)
UHD(3840x2160)
FHD(1920x1080, 2160x1080)
HD(1280x720)
SD(NTSC 720x486, PAL 720x576)

SDI 3
FHD(1920x1080, 2160x1080)
HD(1280x720)
SD(NTSC 720x486, PAL 720x576)

SDI 2
4K(4096x2160)
UHD(3840x2160)
FHD(1920x1080, 2160x1080)
HD(1280x720)
SD(NTSC 720x486, PAL 720x576)

SDI 4
FHD(1920x1080, 2160x1080)
HD(1280x720)
SD(NTSC 720x486, PAL 720x576)

2SI and SQD 4K signal

4K 2 Sample Interleave (2SI) : Pixel based segmentation

4K Square Division (SQD) : Quadrant based segmentation

4K BOX Control

The BOX Control function can flexibly set the height and width of the marker frame on the monitor, and can be adjusted up, down, left and right. Users can flexibly adjust according to the frame ratio, which brings great convenience to program production.

False Color

Check exposure of the image.Blue, cyan, green, yellow, orange and red color be displayed in turn to show the luminance or brightness values of the image from darkest to brightest, enables an achievement of proper exposure without applying external test equipment.


Original Signal   False Color

3D LUT Color Calibration

Compatible with Lightspace and Calman calibration software, Konvision monitors apply K10-A probe(professional level) to achieve a precise color. Monitor's also workable with universal colorimeters including CA210, CA310, CS200, CR100, CR250, X-Rite i1 Display.

Calibration Softwares:

calman

LIGHT ILLUSION

3D LUT files import

With the LUT loading function, users can load 2 different 3D LUT files with different color types according to their own needs, making DIT, post production and grading work simpler and more intuitive, optimizing the work flow and improving work efficiency.
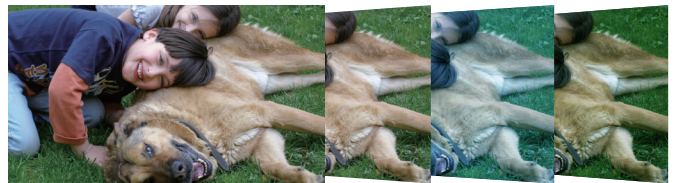

EOTF Curve Conversions

Konvision KUM 4K, 8K and KVM-6X series supports a variety of EOTF curve conversion applicable to the broadcast industry and digital film standard. A preset of lots of camera logs and gamma curve selections, so as to realize the perfect combination with the camera system.

SONY Camera
Input Signal
S-Log1, S-Log2, S-Log3

ARRI Camera
Input Signal
Log-C

Canon Camera
Input Signal
C-Log1, C-Log2, C-Log3

Panasonic Camera
Input Signal
V-log/log(softroll)

High Dynamic Range(HDR)

Konvision KUM 4K, 8K and KVM-6X series support HDR display. Adjustable HDR modes include PQ(ST2084), HLG with Rec 2020 color gamut. It reproduces a greater dynamic range of luminosity and provides extremely high level picture quality.

HDR   CONTRAST   COLOR
SDR   CONTRAST   COLOR
WHAT THE VIEWER SEES   WHAT THE VIEWER SEES
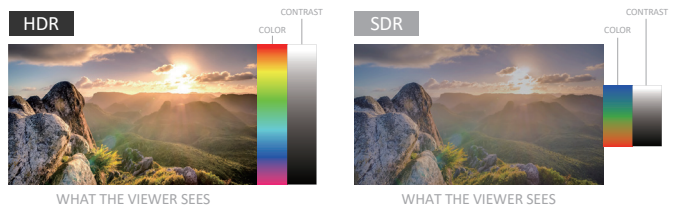
4K HDR Waveform (Alarm), Vectors

4K HDR Waveform. Both SDI and HDMI support Waveform, Vectorscope, Histogram and manage to be displayed on screen at the same time. When luminance reaches or exceeds the preset value, the over exposure areas will be red marked (Waveform Alarm).

Waveform   Vectors

Anti-Burn-In Technology

Using technology that helps protect against burn-in to the panel, it greatly reduces the burn-in-image issue after long hours stay in the same image of the OLED monitors.

Burn-In Issue
Next frame

Anti-Burn-In Technology
Next frame