Konvision

1000 Nits Super High Brightness

KUM-2410H-NDI

24 Inch 4K HDR NDI Monitor

KUM-2410H-NDI is a 24" 4K HDR NDI monitor that supports high-speed bandwidth of 4K NDI input signal. It supports NDI Discovery Service to select sources on different networks, automatically discovering and quickly configuring NDI signals and converts SDI signal to NDI and NDI|HX signal and vice versa. It gives user the freedom to work with a range of IP systems and 4K UHD media for a seamless end-to-end production and signal transformation workflow.
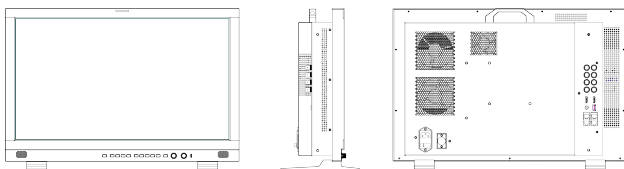
NDI Standards & Support

- Supports UHD video signal codec of NDI and NDI|HX(including NDI|HX2 and NDI|HX3)
- Supports bidirectional conversion between SDI and NDI(NDI|HX), up to 4KP60 high resolution and frame rate, compatible to lower video formats
- Supports 4K YCbCr 4:2:2 10bit quality in NDI|HX encoding stream
- Supports 12G-SDI inputs and loop-outs as well as NDI decoding loop-outs
- Encoding mode converts 12G-SDI signal to NDI or NDI|HX stream, flexible options to enable/unable the high bandwidth NDI stream
- Decoding mode provides automatic options to identify NDI or NDI|HX and converts to 12G-SDI signal, with lower than 80ms of PTP latency
- Supports NDI Discovery Service to select sources on different networks
- Automatic discovery, fast accesses NDI source
- High bandwidth 4K NDI input monitoring
- Supports quad-split screens in NDI/SDI/HDMI monitoring and mixed inputs & frequency rates

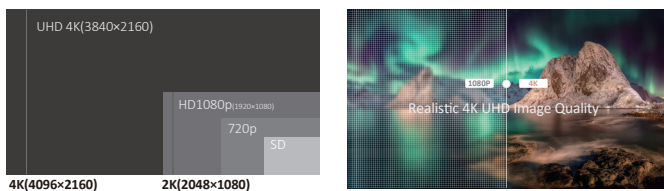## Main Body

Specifications

- 3840 x 2160 4K UHD resolution, full aspect, 10-bit panel, 1200 nits super high brightness
- 2 x 12G-SDI inputs and outputs (6G/3G/HD/SD-SDI auto detected)
- 2 x 3G-SDI inputs and outputs (HD/SD-SDI auto detected)
- 1 x high bandwidth 4K NDI network ports input, 1 x NDI to 12G-SDI conversion output
- 4K 12G-SDI single link signal, up to 4096 x 2160 60p
- 4K signal, 2 Sample Interleave (2SI), Square Division (SQD)
- 1 x HDMI 2.0 input
- Payload ID display
- 4K Mode, Quad-Split Mode, FHD single picture mode
- Independent Color Spaces and EOTF Curves options in each quad-split screens
- Color Space & EOTF Curves Auto Setting, matching(REC709/REC2020)
- Color Space (REC709/EBU/DCI-P3 D65/DCI-P3/REC2020/Bypass)
- HDR: PQ (ST2084), HLG (1.03/1.11/1.16/1.20/1.27/1.33）
- 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)
- Gamma (2.0, 2.2, 2.4, 2.6), HDR Area Display
- 4K HDR Waveform, Vector Scope, Marker/Box Control Function
- 3rd-party 3D LUT files import(USER1~6)
- Dynamic and Static UMD Display (TSL3.1/4.0/5.0)
- 608/708 CC Closed Caption, Key Lock, Video Freeze
- Picture Flip, Focus Assist, False Color, Zebra
- SDR and HDR comparison, Darkness Check
- Scan, Blue/Mono Only
- Firmware upgrade/LUT file import via USB/Ethernet
- GPI (selectable/markable windows)
- Aluminum Alloy Casing, Built-in Speaker
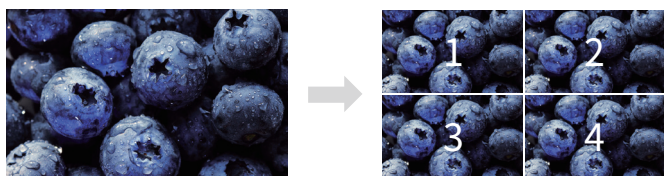- DC 12V and 220V dual power supply

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.
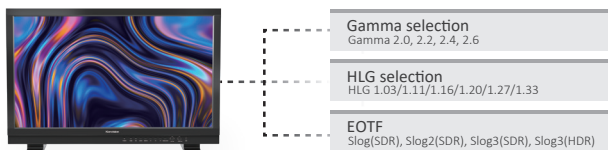

2SI and SQD 4K signal

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

4K Square Division (SQD) : Quadrant based segmentation

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.

Gamma selection
Gamma 2.0, 2.2, 2.4, 2.6

HLG selection
HLG 1.03/1.11/1.16/1.20/1.27/1.33

EOTF
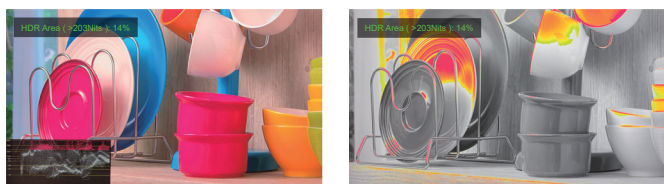Slog(SDR), Slog2(SDR), Slog3(SDR), Slog3(HDR)

Quad View Mode

Quad View Mode support mixed inputs & frequency rates. Each window can change to single picture mode with shortcut button or GPI. Each window can select different color space and HDR waveform.

HDR Waveform, HDR Area Display

HDR reference white is 203nits. The part that exceeds the reference white level (203nits) considered as the HDR highlight part, and the HDR highlight ratio should not exceed 20% of the entire image. HDR waveform, HDR area display can make the HDR info more intuitively displayed, which is more convenient for users.
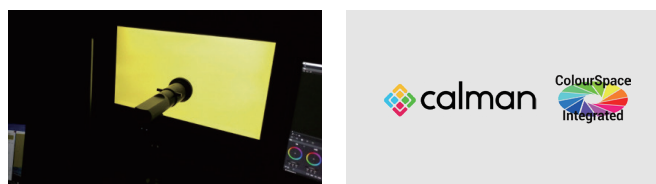

4K HDR Waveform (Alarm), Vectors

4K HDR Waveform. SDI and HDMI support Waveform, Vectorscope, Histogram. When luminance reaches or exceeds the preset value, the over exposure areas will be red marked (Waveform Alarm).

3D LUT Color Calibration

Compatible with ColourSpace 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.With the LUT loading function, users can load 2 different 3D LUT files with different color types according to their own needs

Panel	
Model No.	KUM-2410H-NDI
Backlight	LED
Size	24"
Resolution	3840 × 2160
Aspect Ratio	16 : 9
Viewing Angle	178°(H) / 178°(V)
Color Depth	1.07B
Brightness	1000cd/m²
Contrast Ratio	1000:1
Input	
1 x RJ45	High Bitrate 4K NDI IP data stream input interface
2 x BNC	3G-SDI signal inputs (Auto-detected and compatible to HD/SD-SDI)
2 x BNC	12G-SDI signal inputs （Auto-detected and compatible to 6G/3G/HD/SD-SDI）
1 × HDMI 2.0	HDMI 2.0 input (supporting up to 4096×2160P 60Hz)
Output	
2 x BNC	3G-SDI ignal outputs (Auto-detected and compatible to HD/SD-SDI)
1 x BNC	12G-SDI signal output (Auto-detected and compatible to 6G/3G/HD/SD-SDI)
1 x BNC	NDI to 12G-SDI/12G-SDI signal output (Auto-detected and compatible to 6G/3G/HD/SD-SDI)
Audio In & Out	
SDI/HDMI Audio In	32 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	DC 12V & AC 100-240V 50/60Hz
Power Consumption	117 W
VESA Installation	VESA MIS-D (100×100mm)
Accessory	Power Cord /Desktop stand

¤ Specifications may be changed without prior notice.