Konvision

KRM-404U

4×4.1 INCH 12G-SDI RACKMOUNT MONITOR

INTRODUCTION

KRM-404U adopts a 4×4.1-inch 1280x720 high-definition IPS LCD panel with 19'' 2RU EIA rackmount, adaptive HDR, and is equipped with 12G/6G/3G/HD/SD-SDI and HDMI2.0 video interfaces for each screen, allowing up to three 4K signal inputs at the same time. In addition, the quad rackmount monitor supports Single-Screen waveform Display, delivering accurate scope views, effectively meeting the high-end needs of broadcast, OB Vans, EFP, and other scenarios with high requirements.

HIGHLIGHTS

- 170°H/V wide viewing angle IPS LCD panel, 1280×720 HD Resolution
- 19inch, 2RU, EIA rackmount, 4.1inch quad screen display
- Each screen supports 2x12G/6G/3G/HD/SD-SDI with 1CH loopout
- Each screen supports 1xHDMI input, support up to 4096×2160P60Hz
- Each screen supports 3CH 4K signals max, fast switching between signals
- 3D LUT color calibration, support ColourSpace/Calman
- Color spaces: Rec.709/EBU/DCIP3/DCIP3 D65/Rec.2020
- HDR support: HLG(1.03/1.11/1.16/1.20/1.27/1.33), ST2084 PQ/(softroll)
- Gamma options: Gamma2.0/2.2/2.4/2.6
- VPID reading & Payload ID recognition, automatic Color Space &EOTF
- Optional color temperature: 9300K/6500K/5600K, supports custom temperature adjustment
- USB/network ports for loading custom 3D LUT files and firmware upgrades
- Support HDR area analysis
- Single-Screen waveform Display: one screen signal, waveform on another
- Waveform/vector scope/histogram/audio meter/audio phase
- Mirror/rotation/zoom/freeeze/full scan/over scan/HV delay
- False color/Zebra/Focus Assist/Blue only/Mono
- Aspect ratio/center marker/safe area, markers with BOX control
- Each SDI support 16ch embedded audio meters & 2channel output
- Simulated stereo input, 3.5mm headphone jack output
- VITC1/2, LTC timecode,static/dynamic UMD/IMD
- Ethernet port/GPI for remote control
- F function keys for fast auxiliary tool call
- Supports 608/708 Closed Caption
- Aluminum alloy case, tricolor Tally

SPECIFICATION

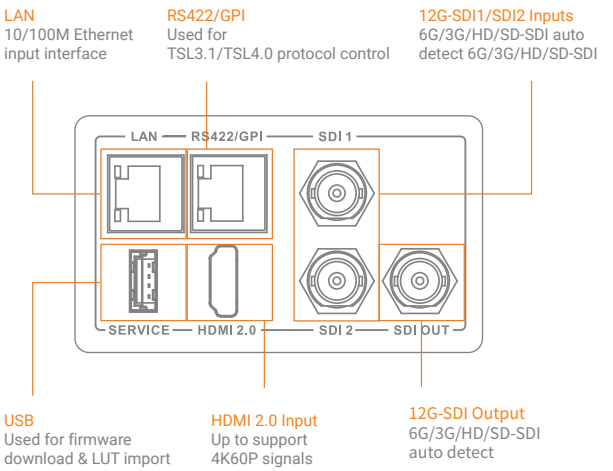
Panel	
Model No.	KRM-404U
Backlight	LED
Size	4.1" (one screen)
Resolution	1280×720
Aspect Ratio	16:9
Viewing Angle	170°(H) / 170°(V)
Brightness	450cd/m^2
Contrast Ratio	1000:1
Color Depth	8bit
Input(one screen)	
2×BNC	12G/6G/3G/HD/SD-SDI (×2)
1×HDMI	HDMI 2.0 (×1)
Output(one screen)	
1×BNC	12G/6G/3G/HD/SD-SDI (×1)
Remote Interface	
1×RJ45	10/100M Ethernet Input Interface
1×RJ45	GPI/RS422Input Interface, Used for TSL3.1/TSL4.0 protocol control
Audio In & Out	
Audio In	16-Channels SDI & 2-Channel outputs
Audio Out	3.5mm Headset Jack, 1×1.2W Speakers
Audio Meter	Transparent/Opaque Display
General	
Input Voltage	DC 12V
Power	≤42W
Installation	19" EIA Rack 2RU
Net Weight	≈3.5kg
Accessory	Power Cord

*Specifications may be changed without prior notice.

FEATURES

▪ 3 links of 4K Signal Inputs per Screen

Each screen is equipped with 2 x 12G SDI inputs, 1 x 12G SDI output, and 1 x HDMI input, up to 3 links of 4K signals, realizing fast signal switching between SDI1, SDI2, and HDMI for each screen. In addition, each screen can input different signals to take more signals into account.



▪ HD resolution, IPS LCD panel

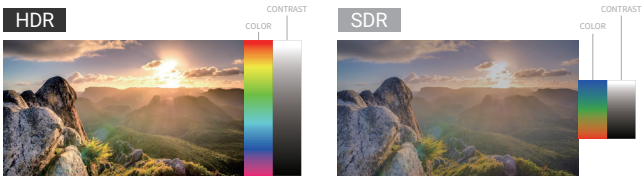
Adopts 4×4.1 inch IPS LCD panel, 1280×720 HD resolution, 170° H/V wide viewing angle, presenting vivid images.

▪ 3D LUT Calibration & LUT Files Import

Each Konvision monitor is well calibrated with 3D LUT color calibration technology before leaving the factory to ensure accurate colors. User can load and store custom 3D LUT tables through the USB port/Ethernet port, effectively simplifying the color grading process for DIT and post-production work.

▪ High Dynamic Range(HDR)

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



· HDR EOTF：HLG (1.03/1.11/1.16/1.20/1.27/1.33)、ST2084 PQ/(softroll)

▪ Standard Color Spaces

Supports various color spaces such as HD (Rec.709), UHD (BT.2020), and digital cinema (DCI-P3) specified by the ITU standard.

· Color spaces：Rec.709/EBU/DCI-P3/DCI-P3 D65/Rec.2020
· Gamma：2.0/2.2/2.4/2.6

▪ Single-Screen waveform Display

Two adjacent screens form a group, one screen monitors the picture in real time, and the other screen displays the waveform in full screen, providing a larger and clearer waveform view. The function is enabled based on internal signal association, without the need for additional wiring, and the operation is simple.

Full-screen waveform display: One screen displays the image, and the other displays the waveform in full-screen mode

Five Optional Waveform：

▪ Customizable 3D LUT Import & Output

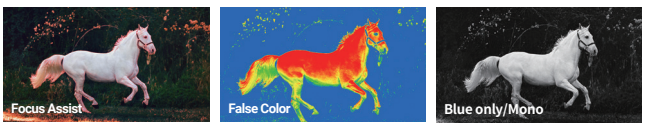
Users can load and save 8 custom 3D LUTs via USB port/network port. Custom LUTs can also be set to output with the video display, effectively simplifying the color grading process for DIT and post-production work.

▪ HDR Area Display

Calculate and displays the percentage of HDR reference white (＞203 nits) and HDR-mapped white (＞260 nits) in the overall image. If exceeding the reference values, a warning will be issued.

*The "4K UHD/HDTV Compatible Production & Channel Synchronous Broadcasting Implementation Guide (2024 Edition)" states: In post-production, adjust video signal brightness via HDR white-level mapping to ensure consistency in brightness between different shots and programs. The HDR reference white level is 203nits, with the HDR highlight portion not exceeding 25% of the entire picture.

▪ Professional Image Analysis Tools



Outlines the focus area using a peak focus algorithm

Applies brightness coloring to regions of the image based on various standards

Helps check hue and image noise.

Use zebra to mark areas where exposure exceeds the preset value

Offers various standard markers for size and safety area selections

Allows custom adjustment of box brame size and position

▪ Audio Auxiliary Tool

Each screen supports 16channel SDI and 8channel HDMI audio meter display (VU & PPM), and any 2 channels can be output through the 3.5mm headphone jack or speaker and support mute settings; supports audio meters, audio phase diagrams, and realtime display of audio signals.