

KUM-2434H

24-inch 8K HDR Landscape/Portrait Multi-View Monitor



INTRODUCTION

KUM-2434H features a 23.8-inch 4K UHD (3840x2160) IPS panel with 10bit (8bit + FRC) color, a 178°H/V viewing angle, and support for HDR (HLG/PQ). Equipped with 4x12G-SDI inputs & loop-outs, plus 3G-SDI, HDMI 2.0 and SFP+ interfaces, it supports SD, HD and 4K UHD signals, as well as 4K HDR to HD SDR down-conversion. Built-in professional monitoring tools including waveform, vector scope and more make it ideal for live broadcast, EFP, film production and master control applications.

SPECIFICATION

Panel	
Model No.	KUM-2434H
Backlight	LED
Size	23.8"
Resolution	3840×2160
Aspect Ratio	16:9
Viewing Angle	178°(H) / 178°(V)
Brightness	1200cd/m ²
Contrast Ratio	1,000:1
Color Depth	10bit (8bit+FRC)1.07B
Input	
4×BNC	12G/6G/3G/HD/SD-SDI(×4)
1×HDMI	HDMI 2.0 (×1)
1×SFP+	12G/6G/3G/HD/SD-SDI (×1) SFP+
Output	
4×BNC	12G/6G/3G/HD/SD-SDI(×4)
1×HDMI	HDMI 2.0 (×1)
Remote Interface	
1×RJ45	10/100M Ethernet Input Interface
1×RJ45	GPI Input Interface
2×RJ45	RS422 Input and Loop Out Interface
Audio In & Out	
Audio In	16-ch embedded audio via SDI, 8-ch via HDMI
Audio Out	3.5mm Headphone Jack, 2×3.0W Speakers
Audio Meter Display	Vertical/ transparent/opaque display
General	
Input Voltage	DC 12-16.8V/AC 100-240V 50/60Hz
Power	≤110W
Installation	VESA MIS-D (100×100mm)
Net Weight	≈11.8kg
Accessory	Power Cord

*Specifications may vary due to technical improvements. Refer to the actual delivered unit.

HIGHLIGHTS

>>> Advanced Display & Color Management

- Color spaces: Rec.709/EBU/DCI-P3/DCI-P3 D65/Rec.2020/Bypass
- Data level: Auto/Limited (64–940) / Extended (64–1019)/Full (0–1023)/ SMPTE Full(4–1019)
- EOTF options: Bypass/2.0/2.2/2.4/2.6/2.4(HDR)
- HDR standards: ST2084PQ/ST2084 PQ(softroll), HLG(1.03/1.11/ 1.16/1.20/1.27/1.33)
- VPID(Video Payload ID)recognition for color space/EOTF auto matching
- Multiple camera color space and OETF convert to standard color space and EOTF display
- Auto-adaptive 4K/HD signal display

>>> Input & Output

- Supports 4:4:4 12-bit video signal processing
- 4x12G-SDI inputs & loop-outs, supports quad-link 8K, single-link 4K, and quad-link 4K
- 4x12G-SDI quad-link (SQD/2SI) supports 4K/8K 60p
- 1xSFP+ fiber interface for SDI conversion input
- 12G-SDI single-link supports signals up to 4096x2160 60p
- 1xHDMI 2.0 input/loop-out, supports conversion output via SDI / SFP+
- Supports 4K UHD to 2K HD down-conversion via SDI 2 output
- Supports HDR to SDR down-conversion output via SDI

>>> 3D LUT

- 3D LUT calibration compatible with ColourSpace/Calman
- Supports multiple custom 3D LUTs loading and output via SDI

>>> Multi-View Monitoring

- Flexible Multi-View Modes: Single View/PIP/PBP/Triple View/Quad View
- Each window supports: H Flip/V Flip, vertical rotation, aspect ratio cropping, full-screen scaling, portrait & landscape simultaneous display
- Multi-View mode supports simultaneous display of SDI, HDMI and SFP+ sources with different resolutions and frame rates
- In Multi-View mode, each window features independent color space and EOTF settings
- In Multi-View mode, any window can be instantly switched to full-screen view

>>> Monitoring Tools

- HDR area display, HDR/SDR ratio graph and pixel measurement
- Adjustable opacity and waveform position
- Supports horizontal mirror and freeze frame
- HDR Waveform, Vector, Histogram
- False Color, Zebra, Focus Assist
- Aspect ratio, Center Marker, Safe Area

>>> Audio Processing & Broadcast Ancillary Features

- Audio Level Meter, Audio Phase, 5.1/7.1 Surround Phase
- 16-ch embedded audio via SDI, 8-ch via HDMI
- Fast audio source switching in quad-view mode
- Supports 4.1-channel audio
- VITC1/2, LTC timecode; static/dynamic UMD/IMD
- Supports 608/708 Closed Captioning (CC)
- GPI remote control for Tally/assist functions/scene preset

>>> Mechanical Design & Operation

- Multiple scene presets; user-defined presets import/export via USB
- Key lock function; 3 LED indicator modes (Off / Preset Scene Active / Dual-Color)
- Aluminum alloy chassis, built-in speakers, headphone jack, volume control, and mute settings
- USB/Ethernet for 3D LUT loading and firmware updates

FEATURES

Wide-view, UHD IPS Panel - 4K Resolution

Featuring a 23.8-inch IPS panel with 3840x2160 4K UHD resolution (4xFHD), KUM-2434H offers 178°H/V viewing angle, 10 bit (8bit+FRC) deep color, and rapid response, delivering exceptional image clarity and fine detail.

Aspect Ratio Crop

Supports native rotation and aspect ratio cropping. Allows cropping any area of the 4K image at a specific aspect ratio and comparing the results on the same screen, providing an intuitive preview of the framing area to be retained for different content distribution platforms.

Landscape/Portrait Rotation Production:



Quad View

Each signal can be independently rotated / flipped

Simultaneous Landscape/Portrait Production:

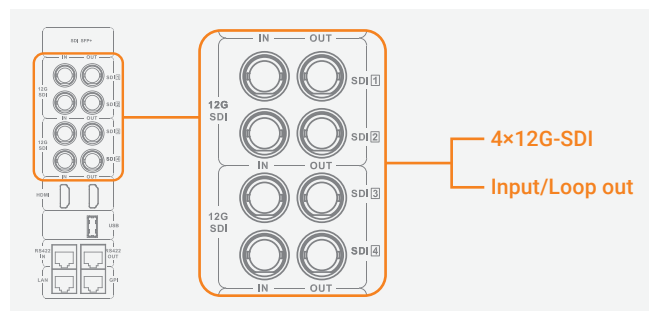


9:16 Aspect Ratio

Short video platforms and short drama apps

4x12G-SDI Input/Loop Out, 8K UHD Monitoring

Equipped with 4x12G-SDI, HDMI, and SFP+ fiber ports. Supports 8K input via 4x12G-SDI quad-link, and 4K input via 4x 3G-SDI quad-link or 1x12G-SDI single-link. Quad-link input supports SQD and 2SI formats. Auto-adaptive 4K/HD signal display

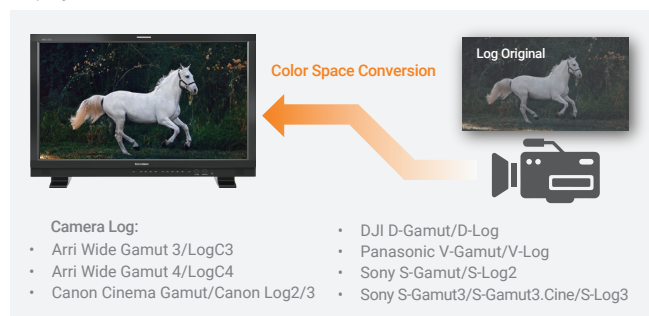


Multiple HDR/Color Spaces Available

Supports high dynamic range (HDR) monitoring, providing standard HDR EOTF (Electro-Optical Transfer Function) with built-in various standard color spaces and EOTFs. It also supports VPID reading display and Payload ID recognition, automatically matching color space and EOTF.

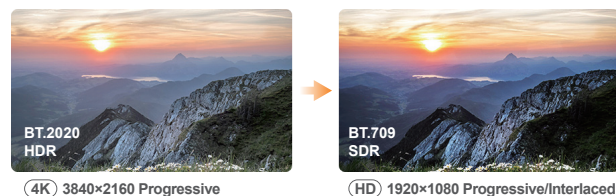
Camera Gammas to Standard Gamuts Conversion

Built-in various mainstream camera gamma curves enable the conversion of camera color space and OETF to standard color space and EOTF display.



4K HDR-HD SDR Down-Conversion

Single-link SDI can realize 4K-HD down-conversion and HDR-SDR conversion. Support NBCU LUTs, CMG LUTs production standards, to meet the 4K HDR and HD SDR high-quality production needs.



Custom Layout Presets

Equipped with 5 customizable shortcut keys. Besides quickly accessing monitoring tools, they can also bind different signal input sources for quick switching, or directly bind configured multi-view layouts for one-click layout changes.



16:9 Quad Layout



Portrait Quad Layout

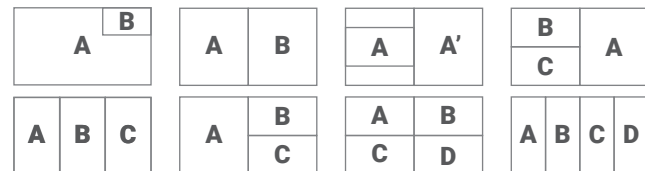


+/- Monitoring Layout Settings

Multiple Screen Layouts

Supports single view, PIP/PBP, triple-view, and quad-view simultaneous display. Each signal can be rotated, allowing monitoring of multiple landscape/portrait feeds without physically tilting the screen.

Multiple Screen Layouts:



Applications:



Professional Image Analysis Tools

