

KUM-2720H

27 INCH

12G-SDI 8K HDR MONITOR



INTRODUCTION

KUM-2720H features a 27-inch 4K UHD (3840×2160) IPS panel, ≥98% DCI-P3 color gamut, with 10bit (8bit+FRC) color depth, 1,000nits high brightness, and supports for HDR (HLG/PQ). Equipped with 4×12G-SDI inputs & loop-outs and 8K signal compatibility, plus 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-2720H
Panel	LED
Size	27"
Resolution	3840×2160
Aspect Ratio	16:9
Viewing Angle	178°(H) / 178°(V)
Brightness	1,000cd/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×SFP+	12G/6G/3G/HD/SD-SDI SFP+
Output	
4×BNC	12G/6G/3G/HD/SD-SDI (×4)
1×HDMI	HDMI 2.0
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	≤120W
Installation	VESA MIS-D (100×100mm)
Net Weight	≈11.7kg
Accessory	Power Cord

*Specifications may be changed without prior notice.

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
- Dynamic contrast with adaptive backlight control for enhanced brightness gradation

Input & Output

- Supports 4:4:4 12-bit video signal processing
- 4×12G-SDI inputs & loop-outs, supports quad-link 8K, single-link 4K, and quad-link 4K
- 4×12G-SDI quad-link (SQD/2SI) supports 4K/8K 60p
- 1×SFP+ fiber interface for SDI conversion input
- 12G-SDI single-link supports signals up to 4096x2160 60p
- 1×HDMI 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

- Supports various display modes: 4K / Quad-View / HD Single-View
- Quad view mode for simultaneous SDI/HDMI/SFP+ signals
- Independent gamuts/EOTF settings per window in quad-view mode
- Instant single-view switch from any window in quad-view mode

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, CIE Chromaticity Diagram, CIE Color Volume, RGB 3D Cube Graph
- False Color, Zebra, Focus Assist, Darkness & Highlight Check
- Aspect ratio, Center Marker, Safe Area, Markers with BOX control

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/scenes 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

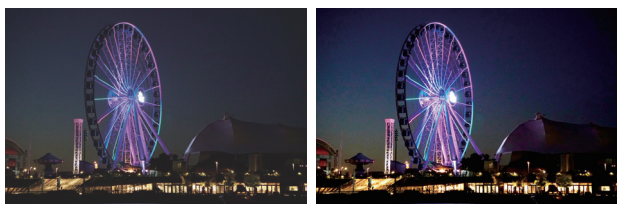
FEATURES

Wide-view, UHD IPS Panel - 4K Resolution

Featuring a 27-inch IPS panel with 3840×2160 4K UHD resolution (4× FHD), KUM-2720H offers 178°H/V viewing angle, 10bit (8bit+FRC) color depth, and rapid response, delivering exceptional image clarity and fine detail.

Dynamic Contrast for Enhanced Image Quality

Powered by precision algorithms, Konvision monitors intelligently adjust backlight intensity in real time according to the image content. This enables precise control of luminance across bright and dark areas, delivering higher contrast, crisp highlights, deeper blacks, and enhanced shadow detail for a more accurate and refined image.

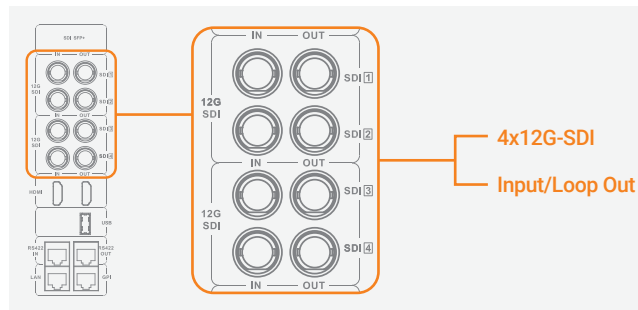


Dynamic Contrast Off

Dynamic Contrast On

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.



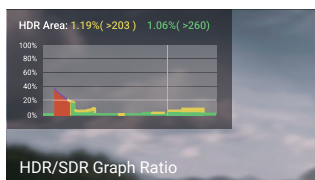
Camera Gammas to Standard Gamuts Conversion

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



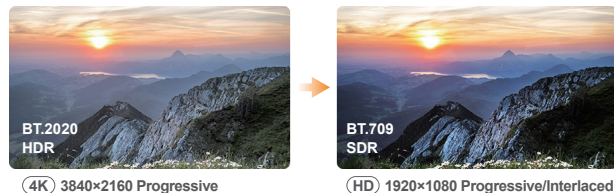
HDR Ratio Analysis – Compliant with HDR Production Standards

Automatically analyzes and displays the proportion of HDR Reference White (>203 nits) and HDR Mapping White (>260 nits) across the image. Exceeding recommended thresholds triggers an on-screen alert, ensuring full compliance with HDR video production specifications.



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.



Multiple HDR/Color Spaces Available

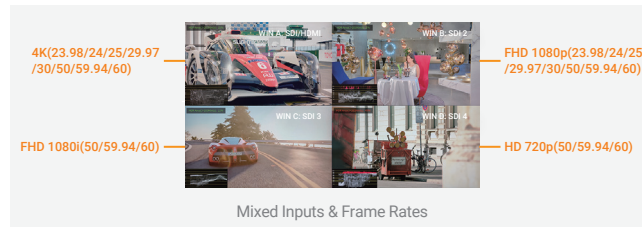
Supports high dynamic range (HDR) monitoring, providing standard HDR EOTF (Electro-Optical Transfer Function) with built-in various standard color spaces and EOTFs. It also supports VPID reading display and Payload ID recognition, automatically matching color space and EOTF.

3D LUT Color Calibration

Every Konvision monitor is factory-calibrated using our proprietary tetrahedral interpolation 3D-LUT technology. Fully compatible with Calman and ColourSpace, and calibrated with professional-grade instruments including the K-10A colorimeter and CR-300 spectroradiometer, each monitor delivers industry-leading color accuracy.

Quad-View: Mixed Inputs & Frame Rates

The Quad view mode supports the simultaneous input of four different signal sources, allowing for mixed resolutions and frame rates signals to be displayed together via SDI/HDMI/SFP+. Each split window can independently set Color Space and EOTF, as well as display HDR waveforms separately. This enables centralized monitoring of the entire system in a limited space, with the ability to quickly switch to a single view from any window.



Professional Image Analysis Tools

