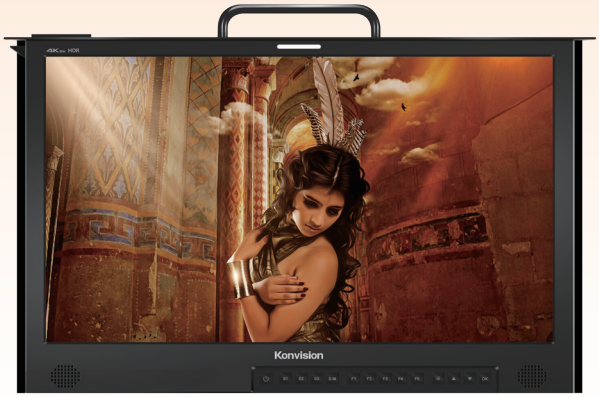
Konvision

KFM-1720U

17.3 INCH
4K/8K Drawer Monitor



INTRODUCTION

KFM-1720U is a drawer monitor with a 17.3-inch 3840×2160 4K IPS LCD panel. It can be installed in a 19-inch 1RU standard EIA rack, has a 178° H/V full viewing angle, supports HDR HLG&PQ and 4 x 12G-SDI inputs and loop outputs, and is compatible with 8K signals. It also provides 3G-SDI, HDMI 2.0, and SFP+ optical fiber module interfaces, supports SD/HD/4K input, and has built-in waveform, vector, and other image analysis tools. It can be set up in OB vans, portable mobile studios, playout rack rooms, EIA, etc., and is also the preferred product for high-quality 4K live streaming.

HIGHLIGHTS

- 178°H/V viewing angle, IPS LCD panel, 3840×2160 resolution
- Support forward and backward pushandpull, up and down positioning flip
- 12bit video signal processing with zero delay display
- 4x12G-SDI inputs and outputs, quadlink 8K, singlelink 4K&quadlink 4K
- 4x12G SQD & 2SI formats support 8K60P signals
- 1xSFP+ optical module interface, supporting SDI conversion input
- 1xHDMI 2.0 input
- 3D LUT color calibration support for ColourSpace & Calman
- Supports color spaces: Rec.709/EBU/DCIP3/DCIP3 D65/Rec.2020
- Multiple gamma options: Gamma 2.0/2.2/2.4/2.6
- HDR support: HLG (1.03/1.11/1.16/1.20/1.27/1.33), ST2084 PQ/(softroll)
- VPID reading & Payload ID recognition, automatch gamut & EOTF
- USB/network ports for custom LUT files loading & firmware upgrading
- Quad view mode for simultaneous SDI/HDMI/SFP+signals
- Independent Gamuts & EOTF settings in quad view mode
- Any window in quad view mode can quickly switch to single view mode
- Support for HDR area display and HDR/SDR ratio graph
- Support for pixel measurement
- Waveform, Vector, Histogram, CIE Chromaticity Diagram, CIE Color Volume
- Mirror, Picture Flip, Part Zoom In, Video Freeze
- False Color, Zebra, Focus Assist, Full Scan, Over Scan, H/V Delay
- Blue/Mono Only, Darkness Check, Highlight Check
- Markers: Aspect Ratio, Center Area, Safe Area, Box Frame Adjustment
- Audio Level Meter, Audio Phase, 5.1/7.1 Surround Phase
- Each SDI support 16ch embedded audio meters & 2channel output
- Supports 4.1channel audio
- Time code (VITC1, VITC2, LTC)
- UMD/IMD display, TSL3.1/4.0/5.0 protocol
- Ethernet/GPI control, support RS422 input and output
- GPI remote control for tally, auxiliary functions, signal switching,etc
- Aluminum alloy case, speaker, headphone jack, tally

SPECIFICATION

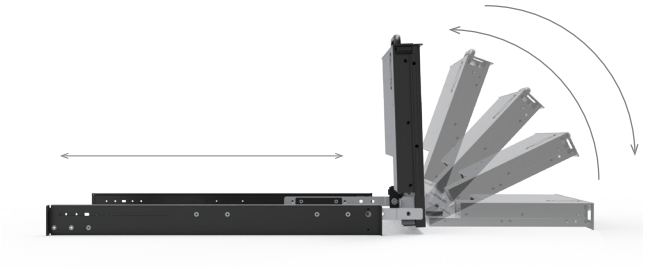
Panel	
Model No.	KFM-1720U
Backlight	LED
Size	17.3″
Resolution	3840×2160
Aspect Ratio	16:9
Viewing Angle	178°(H) / 178°(V)
Brightness	400cd/m^2
Contrast Ratio	1500:1
Color Depth	8bit
Input	
4×BNC	12G/6G/3G/HD/SD-SDI（SDI1/SDI2/SDI3/SDI4）
1×HDMI	HDMI 2.0
1×SFP+	SDI SFP+ input cage
Output	
4×BNC	12G/6G/3G/HD/SD-SDI（SDI1/SDI2/SDI3/SDI4）
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-Channels SDI & 2-Channel outputs
Audio Out	3.5mm Headset Jack, 2×2.0W Speakers Support 4.1-Channel Audio
Audio Meter Display	Vertical/horizontal, transparent/opaque display
General	
Input Voltage	DC 12V
Power	≤50W
Installation	19" EIA Rack 1RU
Net Weight	≈10.2kg
Accessory	Power Cord

*Specifications may be changed without prior notice.

FEATURES

▪ 19inch 1RU Standard Rackmount with Pushpull Design

1RU slim chassis design, 19inch standard rack mount, reduces space occupation, supports front and rear pushpull as well as vertical positioning and flipping, making mobile casemounted studios more portable and electronic field production more convenient.

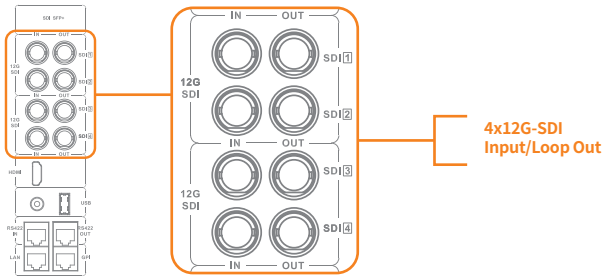


▪ IPS LCD Panel, UHD/4K Resolution

Equipped with a 17.3-inch IPS LCD panel that features a 178° H/V wide viewing angle, accurate color reproduction, and fast response speed. It supports a 4K/UHD resolution of 3840×2160, with a pixel density that is four times that of Full HD, resulting in a more detailed picture quality.

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

Equipped with 4x12G-SDI, 1xHDMI, and 1xSFP+ fiber optic interfaces. It supports 4×12G-SDI quad-link 8K input, 4×3G-SDI quad-link or 1×12G-SDI single-link 4K input. Quad-link input supports SQD and 2SI formats.



▪ 3D LUT Color Calibration

Tetrahedral 3D LUT interpolation color calibration technology. Compatible with ColourSpace and Calman calibration software, Konvision monitors apply K10-A/CR100 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.

▪ 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 Gamma. It also supports VPID reading display and Payload ID recognition, automatically matching color space and EOTF.

- Color Spaces: Rec.709/EBU/DCI-P3/DCI-P3 D65/Rec.2020
- HDR EOTF: HLG (1.03/1.11/1.16/1.20/1.27/1.33)、ST2084 PQ/(softroll)
- Gamma: 2.0/2.2/2.4/2.6

▪ 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.

▪ Quad-View：Mixed Inputs & Frame Rates

The Quad view mode supports the simultaneous input of four different signal sources, allowing for mixed resolution and frame rate 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.

Mixed Inputs & Frame Rates

▪ 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.

▪ Professional Image Analysis Tools