

KUM-1810D

18.4 INCH

12G-SDI 4K HDR MONITOR



INTRODUCTION

KUM-1810D features an 18.4-inch 3840×2160 4K/UHD IPS LCD panel, UHD Resolution (3840×2160), with a color gamut of ≥98% DCI-P3 and a brightness of 1000nits. It supports HDR formats HLG & PQ. 2x12G-SDI input/output, along with 3G-SDI, HDMI2.0, and SFP+ fiber optic module interfaces. It supports SD/HD/4K input and offers 4K HDR to HD SDR conversion. Built-in image analysis tools such as waveform and vector scopes make it suitable for film shooting, program production, live broadcasting, and broadcast control center.

HIGHLIGHTS

- 178°H/V viewing angle, IPS LCD panel, 3840×2160 resolution
- 12-bit video signal processing with zero delay display
- 2x12G-SDI & 2x3G-SDI inputs and outputs, 4K single-link & quad-link
- 4x3G S/QD & 2SI formats support 4K60P signals
- 1xSFP+ optical module interface, supporting SDI conversion input
- 1xHDMI 2.0 input & loop-out, supporting SDI/SFP+ conversion output
- 3D LUT color calibration support for ColourSpace & Calman
- Supports color spaces: Rec.709/EBU/DCI-P3/DCI-P3 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/(soft roll)
- VPID reading & Payload ID recognition, auto-match gamut & EOTF
- Camera Gammas & EOTF to Standard Gamuts Conversion
- 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
- 4K HDR to 2K SDR down-conversion, custom 3D LUT output
- HDR area display, HDR/SDR ratio graph and pixel measurement
- Waveform, Vector, Histogram, CIE Chromaticity Diagram, CIE Color Volume
- Mirror, Rotation, Zoom, Freeze, Full Scan, Overscan, H/V delay
- False Color, Zebra, Focus Assist, Blue/Mono Only
- Darkness Check, Highlight Check
- Aspect ratio, Center Marker, Safe Area, Markers with BOX control
- Audio Level Meter, Audio Phase, 5.1/7.1 Surround Phase
- Each SDI support 16ch Embedded Audio Meters & 2-channel outputs
- Supports 4.1-channel audio
- VITC1/2, LTC Time Code, Static/Dynamic UMD/IMD display, Tally lights
- 5 Scene Presets, S1-S5 Shortcut keys, supporting custom settings
- GPI remote control for Tally, Auxiliary functions, and scene presets
- Supports 608/708 Closed Caption
- Aluminum alloy, Build-In Speakers
- 3.5mm Headphone Jack, Volume adjustment
- 12V DC & 220V AC power supply

SPECIFICATION

Panel	
Model No.	KUM-1810D
Backlight	LED
Size	18.4"
Resolution	3840×2160
Aspect Ratio	16:9
Viewing Angle	178°(H) / 178°(V)
Brightness	1000cd/m ²
Contrast Ratio	1000:1
Color Depth	10bit
Input	
4×BNC	12G/6G/3G/HD/SD-SDI (SDI1/SDI2) 3G/HD/SD-SDI (SDI3/SDI4)
1×HDMI	HDMI 2.0
1×SFP+	SDI SFP+ input cage
Output	
4×BNC	12G/6G/3G/HD/SD-SDI (SDI1/SDI2) 3G/HD/SD-SDI (SDI3/SDI4)
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-Channels SDI & 2-Channel outputs
Audio Out	3.5mm Headset Jack, 2×3.0W Speakers Support 4.1-Channel Audio
Audio Meter Display	Vertical/horizontal, transparent/opaque display
General	
Input Voltage	DC 12V & AC 100-240V 50/60Hz
Power	≤90W
Installation	VESA MIS-D (100×100mm)
Net Weight	≈8.3kg
Accessory	Power Cord /Desktop Stand

*Specifications may be changed without prior notice.

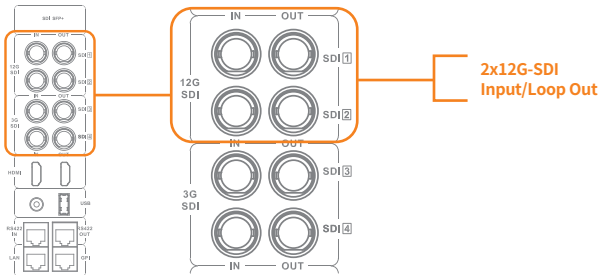
FEATURES

▪ IPS LCD Panel, UHD/4K Resolution

Equipped with a 18.4-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.

▪ 2x12G-SDI Input/Loop Out, 4K/UHD Monitoring

Equipped with 2x12G-SDI, 2x3G-SDI, 1xHDMI, and 1xSFP+ fiber optic interfaces. It supports 4x3G-SDI quad-link or 1x12G-SDI single-link 4K input. Quad-link input supports SQD and 2SI formats.



▪ 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

▪ Camera Gammas to Standard Gamuts Conversion

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



Camera Log:

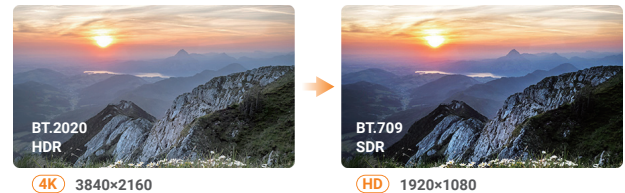
- Arri Wide Gamut 3/LogC3
- Arri Wide Gamut 4/LogC4
- Canon Cinema Gamut/Canon Log2/3
- DJI D-Gamut/D-Log
- Panasonic V-Gamut/V-Log
- Sony S-Gamut/S-Log2
- Sony S-Gamut3/S-Gamut3.Cine/S-Log3

▪ 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.

▪ 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.

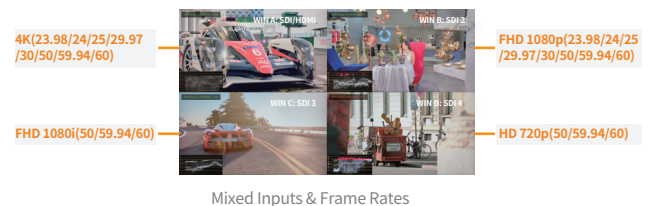


▪ Customizable 3D LUT Import & Output

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.



▪ 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

