Konvision

KUM-6510W

65 INCH
12G-SDI 4K HDR MONITOR

INTRODUCTION

KUM-6510W features a 65-inch 3840×2160 4K/UHD IPS LCD panel,UHD Resolution(3840×2160) with front-positioned buttons for convenient operation after embedded installation and narrow bezel design. It supports 10-bit color with a 178° H/V viewing angle. HDR supports HLG & PQ. 2x12G-SDI input/output channels, it also includes 3G-SDI, HDMI 2.0, and SFP+ optical module interfaces, accommodating SD/HD/4K input. Built-in waveform and vector graphical analysis tools cater to applications in OB vans, studio walls, security monitoring, and high-end video conferencing.

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 SQD & 2SI formats support 4K60P signals
- 1xSFP+ optical module interface, supporting SDI conversion input
- 1xHDMI 2.0 input, up to support 4096×2160P60Hz
- 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

SPECIFICATION

Panel	
Model No.	KUM-6510W
Backlight	LED
Size	65″
Resolution	3840×2160
Aspect Ratio	16:9
Viewing Angle	178°(H) / 178°(V)
Brightness	500cd/m^2
Contrast Ratio	1200:1
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）
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	AC 100-240V 50/60Hz
Power	≤300W
Installation	VESA MIS-D（400×400mm)/(400×600mm)
Net Weight	≈48kg
Accessory	Power Cord

*Specifications may be changed without prior notice.

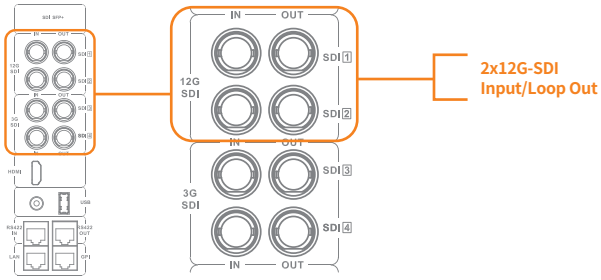
FEATURES

▪ 4K/UHD Narrow Bezel Screen

The product features a 65-inch IPS LCD screen with a 178 ° H/V full viewing angle and a 3840×2160 4K/UHD resolution. The front buttons combined with the narrow bezel design, making it suitable for embedded installation, reducing space occupation, and allowing for more convenient operation.

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

Equipped with 2x12G-SDI, 2x3G-SDI, 1xHDMI, and 1xSFP+ fiber optic interfaces. It supports 4×3G-SDI quad-link or 1×12G-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:

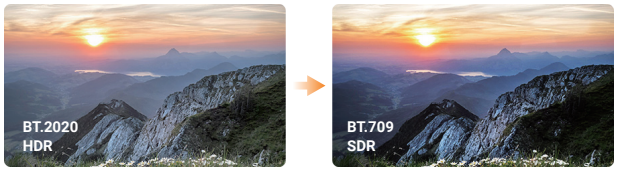
- Arri Wide Gamut 3/LogC3
- Arri Wide Gamut 4/LogC4
- Canon Cinema Gamut/Canon Log2/3
- DJI D-Gamut/D-Log
- Panasonic V-Gamut/V-Log
- Sony S-Gamut/S-Log2
- Sony S-Gamut3/S-Gamut3.Cine/S-Log3

▪ 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.



4K 3840×2160 HD 1920×1080

▪ 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

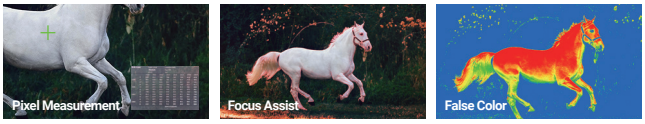
The Quad view mode supports the simultaneous input of four different signal sources, allowing for mixed resolution and frame rate signals to be displayed together via SDI/HDMI/SFP+. Each split window can independently set Color Space and EOTF, as well as display HDR waveforms separately. This enables 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.

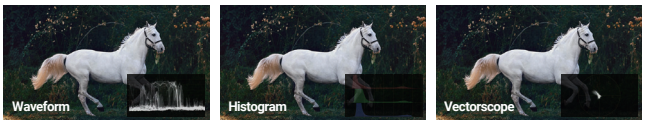
▪ Professional Image Analysis Tools



Measures the color information of 32 pixels

Outlines the focus area using a peak focus algorithm

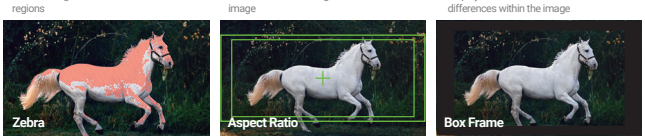
Applies brightness coloring to regions of the image based on various standards



Provides brightness information at different regions

Reflects the overall brightness levels of the image

Displays detailed color distribution and differences within the image



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