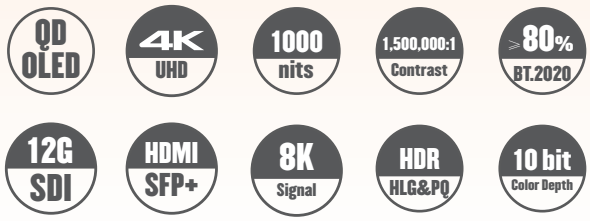
Konvision

# KXM-3220S

## 32 INCH 4K/8K HDR
## QD-OLED MASTERING MONITOR





## INTRODUCTION

The KXM-3220S is a 31.5-inch 4K/8K HDR mastering monitor featuring industry-leading QD-OLED display technology with quantum dots. It delivers 1000nits peak brightness, 1,500,000:1 contrast percentage, ≥ 80% BT.2020 color gamut, and 3840×2160 4K resolution with HDR HLG/PQ support. Equipped with 4×12G-SDI input/loop-out, it supports 4K&8K signal processing and 4K HDR to HD SDR down-conversion, making it ideal for HDR mastering, UHD/HD live production, filming, and post-production applications.

## HIGHLIGHTS

- QD-OLED panel with 178°viewing angle and 3840×2160 4K resolution
- 1000nits peak brightness, 1,500,000:1 contrast, ≥80% BT.2020 coverage
- 12-bit video processing with zero-latency display
- 4×12G-SDI input/loop-out (8K quad-link, 4K single/quad-link)
- 4×12G-SDI quad-link (SQD/2SI) up to 8K60p
- 1×SFP+ fiber interface for SDI conversion input
- 1×HDMI 2.0 input/loop-out with SDI/SFP+ conversion output
- 3D LUT calibration compatible with ColourSpace/Calman
- Color spaces: Rec.709/EBU/DCI-P3/DCI-P3 D65/Rec.2020
- Gamma options: 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/Payload ID auto-recognition for color space/EOTF matching
- Multiple camera color space/EOTF conversions to standard color space
- USB/Ethernet for 3D LUT loading and firmware updates
- Quad view mode for simultaneous SDI/HDMI/SFP+signals
- Independent color space/EOTF settings per window in quad-view mode
- Instant single-view switch from any window in quad-view mode
- 4K HDR to 2K SDR down-conversion with 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 timecode; static/dynamic UMD/IMD; tri-color Tally
- 5 scene presets, 5 customizable shortcut keys
- GPI remote control for Tally/assist functions/scene preset
- Aluminum alloy casing, dual power inputs with speakers/headphone jack

## SPECIFICATION

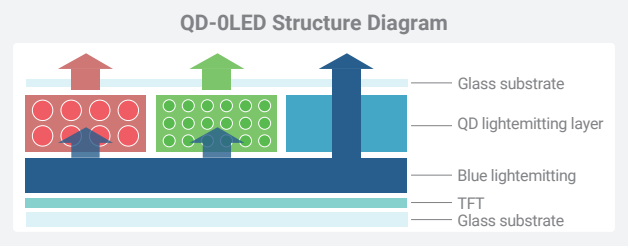
| | |
|---|---|
| **Panel** | |
| Model No. | KXM-3220S |
| Backlight | QD-OLED |
| Size | 31.5″ |
| Resolution | 3840×2160 |
| Aspect Ratio | 16:9 |
| Viewing Angle | 178°(H) / 178°(V) |
| Brightness | 1000cd/m² （peak brightness） |
| Contrast Ratio | 1,500,000:1 |
| Color Depth | 10bit |
| **Input** | |
| 4×BNC | 12G/6G/3G/HD/SD-SDI （SDI1/SDI2/SDI3/SDI4） |
| 1×HDMI | HDMI 2.0 |
| 1×SFP+ | 12G/6G/3G/HD/SD-SDI SFP+ |
| **Output** | |
| 4×BNC | 12G/6G/3G/HD/SD-SDI （SDI1/SDI2/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 | AC 100-240V 50/60Hz |
| Power | ≤160W |
| Installation | VESA MIS-D (100×100mm)/(200×200mm) |
| Net Weight | ≈12.1kg |
| Accessory | Power Cord /Desktop Stand |

*Specifications may be changed without prior notice.

## FEATURES

### ▪ 4K Resolution QD-OLED Panel

Featuring QD-OLED display technology with quantum dots that precisely controls each sub-pixel's color percentage, delivering accurate color reproduction across all brightness levels. Achieves ≥80% BT.2020 color gamut, 1,500,000:1 contrast percentage, and 1000nits peak brightness for exceptional shadow details.

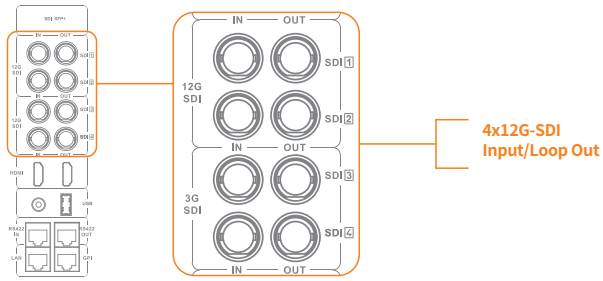



### ▪ 0.1ms Ultra-Fast Response to Eliminates Halo Effect

Konvision's QD-OLED master monitor achieves 0.1ms response time - significantly faster than LCD - effectively eliminating motion blur and judder in fast-moving content.

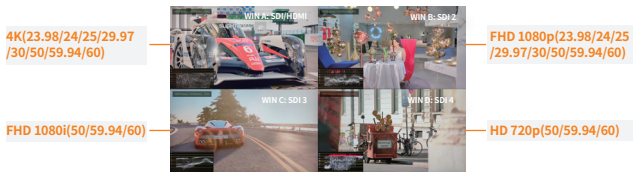
### ▪ 4x12G-SDI Input/Loop Out, 4K/UHD Monitoring

Equipped with 4x12G-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.




### ▪ 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

### ▪ 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.

### ▪ 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

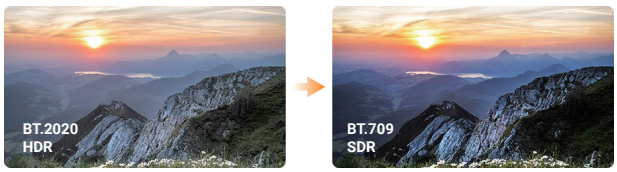
Built-in various mainstream camera gamma curves enable the conversion of camera color space and EOTF to standard color space and EOTF.


**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

### ▪ 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

### ▪ Professional Image Analysis Tools