


**Konvision**

UNPARALLELED COLOR REPRODUCTION  OLED

# 4K/8K HDR OLED MONITOR



**4K**  
HDR

**8K**  
HDR

**0.0005 Nits**  
True Black

**1,000,000:1**  
High Contrast

**HDR**  
PQ & HLG

# KUM SERIES 12G-SDI MONITORS



32 Inch 4K/8K HDR OLED  
Critical Reference Monitor



## KUM-3120S

1,000,000:1

High Contrast Ratio

0.0005 Nits

Pure Black

HDR/BT.2020

Wider Gamut Coverage

32 Inch 4K/8K HDR  
1000Nits Brightness Monitor



## KUM-3120H

12G-SDI

4 x BNC

1000 Nits

High Brightness

8192x4320

Ups to 8K Signal

Quad-Split

Mixed Rates



27 Inch 4K/8K HDR P3  
Reference Monitor



## KUM-2720QD

1000 Nits

High Brightness

98% P3

Wide Gamut

Quad-Split

Mixed Rates

12G-SDI

4 x BNC

27 Inch 4K/8K HDR OLED  
Critical Reference Monitor



# KUM-2720S

|   |                                  |   |
|---|----------------------------------|---|
| <b>1,000,000:1</b><br>High Contrast Ratio | <b>0.0005 Nits</b><br>Pure Black | <b>HDR/BT.2020</b><br>Wide Gamut Coverage |
|---|----------------------------------|---|



24 Inch 12G-SDI 4K/8K HDR  
Broadcast Monitor



# KUM-2420Q

|                                  |                                     |                               |                      |
|----------------------------------|-------------------------------------|-------------------------------|----------------------|
| <b>Quad-Split</b><br>Mixed Rates | <b>8192x4320</b><br>Up to 8K Signal | <b>4K/8K</b><br>Multi-Formats | <b>HDR</b><br>PQ&HLG |
|----------------------------------|-------------------------------------|-------------------------------|----------------------|

17 Inch 12G-SDI 4K/8K  
Broadcast Monitor



# KUM-1720Q

|                               |                                  |                      |                                       |
|-------------------------------|----------------------------------|----------------------|---------------------------------------|
| <b>4K/8K</b><br>Multi-Formats | <b>Quad-Split</b><br>Mixed Rates | <b>HDR</b><br>PQ&HLG | <b>Rack Mount</b><br>19 Inch EIA Rack |
|-------------------------------|----------------------------------|----------------------|---------------------------------------|



# OLED Monitor Unique features

## Product Descriptions

27inch and 32inch 4K/8K HDR OLED Reference monitors are equipped with 4x 12G-SDI inputs and outputs, supporting a flexible quad view of different SDI and HDMI formats mixed inputs with different frequency rate. 12G SDI quad-link supports upto 8K signal.

Uncomparable 1,000,000:1 ultra-high contrast ratio and 0.0005 Nit, truer and deeper black, which helps to reproduce incredible black details and can be used for up to 30,000 hours. It is a good choice for professional and high-quality 4K/8K color grading, post-production etc.

## Unparalleled black level

Featuring a 1,000,000:1 contrast ratio with an absolute black of 0.0005 nit, OLED panel reproduces extreme black details, and brings a stunning experience.



## Anti-Burn-In Technology

Using technology that helps protect against burn-in to the panel, it greatly reduces the burn-in-image issue after long hours stay in the same image of the OLED monitors.



## Specifications

|                       | KUM-2720S   | KUM-3120S                 |
|-----------------------|---|---------------------------|
| Panel                 | OLED,99% P3   | OLED,99% P3               |
| Display Size          | 27"   | 31.5"                     |
| Resolution            | 3840×2160   |                           |
| Aspect Ratio          | 16:9  |                           |
| Viewing Angle         | 178° (H) / 178° (V)   |                           |
| Color Depth           | 1,07B   |                           |
| Brightness            | 540cd/m <sup>2</sup> (Peak Brightness)  |                           |
| Contrast Ratio        | 1,000,000:1   |                           |
| Input                 | 4 x BNC   12G-SDI 1/2/3/4 signal inputs<br>Auto-detected and compatible to 6G/3G/HD/SD-SDI<br><br>1 x SDI SFP+ module optical input cage<br><br>1 x HDMI 2.0 signal input |                           |
| Output                | 4 x BNC   12G-SDI 1/2/3/4 signal outputs<br>Auto-detected and compatible to 6G/3G/HD/SD-SDI   |                           |
| SDI Audio In          | 16 Channels SDI/2 Channels HDMI embedded audio  |                           |
| Audio Meter Display   | Vertical/Horizontal audio level meter display   |                           |
| Audio Headset Output  | 3.5mm headset jack  |                           |
| Built-in Speaker      | 2.5W×2  |                           |
| Operating Temperature | -10° -50°   |                           |
| Power Consumption     | 90 W  | 100 W                     |
| VESA Installation     | VESA MIS-D (100×100mm)  | VESA MIS-D (200×200mm)    |
| Accessory             | Power Cord /Desktop stand   | Power Cord /Desktop stand |

\* Specifications may be changed without prior notice.

**4K/8K** 4K/8K UHD Processor

Native 4K/8K resolution, Wider gamut, 10Bit LCO panel

**12G SDI** 4K/8K 50ps

Upto 8192 x 4320 8K signal, 12G-SDI supports 25i and 30D

**HDR** HDR Display High Dynamic Range

PQ/ST/2094, HLG with REC 2020 color gamut

**Quad Split** Flexible

Mixed SDI/HDMI female inputs with different frequency rate

**Tetrahedral 3D LUT Calibration**

2nm bandwidth high-precision spectrometer

**EOTF Curve Conversion**

S Log, C Log, Log C, V Log apply to various cameras

**Darkness Check** Enhance Shadow Details

Show more shadow details to avoid any missing information

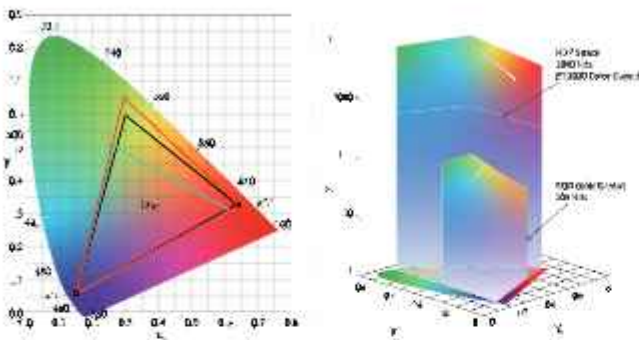
**BOX Control** Flexible Adjustment

Flexibly set the marker frame's height and width

## Color Calibration

### Precise Color Reproduction

Konvison monitors support the color space of HD (Rec.709) and UHD (BT.2020) comply with the ITU standard and support the DCI-P3 color gamut of digital cinema to ensure accurate color reproduction and color calibration.



### Professional Calibration Management

By Independent R&D of the world's leading tetrahedral interpolation algorithm 3D LUT color correction technology, all Konvison monitors undergo strict color temperature before leaving the factory for optimum brightness, gamma and color temperature.

Compatible with Colourspace and Calman calibration software, Konvison applies high-precision color calibration instruments CR-300 spectral analyzer (bandwidth reaches an astonishing 2nm level, with wavelength resolution as high as 0.8 nm/pixel) and K10-A probe(color correction accuracy is 100 times than that of the i1 Display Pro) to do the color calibration of each monitor.

#### - Calibration Softwares

Both Calman and Light Illusion provides customised Konvison versions.



#### - Calibration Instruments



## Signal Processing

### 8K&4K Signal

Native 4K resolution, supporting upto 8192x4320 8K signal, including 4320p 23.98, 24, 25, 29.97, 30, 50, 59.94 and 60p. With advanced image processing technology, 8K HDR monitor restores a real world for users.



### 2SI and SQD 4K signal



4K 2 Sample Interleave (2SI) : Pixel based segmentation



4K Square Division (SQD) : Quadrant based segmentation

### 12 Bit Video Processing

Motion-adaptive interlace to Progressive. Realizing quick response of the fast moving image, avoids dizzy, saw tooth and other problems, ensures clearer and smoother image, well-satisfied high-end demanding workflows such as live sports, camera shaking and rolling subtitles etc.



## HDR and EOTF

### High Dynamic Range(HDR)

Adjustable HDR modes include PQ(ST2084), HLG with Rec 2020 color gamut. It reproduces a greater dynamic range of luminosity and provides extremely high level picture quality.



## 4K HDR Waveform (Alarm), Vectors

4K HDR Waveform, SDI and HDMI support Waveform, Vectorscope, Histogram. When luminance reaches or exceeds the preset value, the over exposure areas will be red marked (Waveform Alarm).



## EOTF Curve Conversions

Konvision KUM 4K, 8K and KVM-6X series supports a variety of EOTF curve conversion applicable to the broadcast industry and digital film standard. A preset of lots of camera logs and gamma curve selections, so as to realize the perfect combination with the camera system.



## 3D LUT files import

With the LUT loading function, users can load 2 different 3D LUT files with different color types according to their own needs, which makes DIT, post production and grading work simpler and more intuitive, optimizing the work flow and improving work efficiency.



## Unique Significant Features

### 4K/HD/SD Quad Split

User can input upto 4 x 12G/6G/3G/HD/SD-SDI signals, also 3 x SDI signals and 1 x HDMI signal to quad view. Konvision Free-View Mode supports a flexible combination of different SDI and HDMI inputs formats with different frequency. Applicable to environment of simultaneous production and broadcasting of 4K, UHD and HD signals.



## Darkness Check

Increasing the brightness and contrast ratio in the dark areas, Darkness Check function can show more shadow details of the input signal. Darkness Check can be used for double checking the shadow detail of the dark areas to avoid any missing information.



## 4K BOX Control

The BOX Control function can flexibly set the height and width of the marker frame on the monitor, and can be adjusted up, down, left and right. Users can flexibly adjust according to the frame ratio, which brings great convenience to program production.



## Other Main Features

### Zebra

Display the overexposed areas (too bright) of the image with zebra stripes, aids the camera operator to control the luminance, in order to avoid overexposure. This feature is very effective for proper exposure.



### Focus Assist

Focus assist aids the camera operator in obtaining the sharpest possible picture, it will mark with red color where the sharp edges appear on the screen.



## KUM SERIES 4K&8K HDR REFERENCE MONITOR / SPECIFICATIONS

| Model No.             | KUM-27205                               | KUM-31205                               | KUM-27200D                | KUM-3120H                 |
|-----------------------|---|---|---------------------------|---------------------------|
| Panel                 | OLED                                    | OLED                                    | LCD,98% P3                | LCD                       |
| Display Size          | 27"                                     | 31.5"                                   | 27"                       | 31.5"                     |
| Resolution            | 3840 x 2160                             | 3840 x 2160                             | 3840 x 2160               | 3840 x 2160               |
| Aspect Ratio          | 16:9                                    | 16:9                                    | 16:9                      | 16:9                      |
| Viewing Angle         | 178° (H) / 178° (V)                     | 178° (H) / 178° (V)                     | 178° (H) / 178° (V)       | 178° (H) / 178° (V)       |
| Color Depth           | 1.07B                                   | 1.07B                                   | 1.07B                     | 1.07B                     |
| Brightness            | 540 cd/m <sup>2</sup> (Peak Brightness) | 540 cd/m <sup>2</sup> (Peak Brightness) | 1000 cd/m <sup>2</sup>    | 1000 cd/m <sup>2</sup>    |
| Contrast Ratio        | 1,000,000:1                             | 1,000,000:1                             | 1400:1                    | 1000:1                    |
| Input Voltage         | AC 100-240V 50/60Hz                     | AC 100-240V 50/60Hz                     | AC 100-240V 50/60Hz       | AC 100-240V 50/60Hz       |
| Operating Temperature | -10° – 50°                              | -10° – 50°                              | -10° – 50°                | -10° – 50°                |
| Power Consumption     | 90W                                     | 100W                                    | 120W                      | 140W                      |
| VESA Installation     | VESA MIS-D(100 X 100mm)                 | VESA MIS-D(200 X 200mm)                 | VESA MIS-D(100 X 100mm)   | VESA MIS-D(200 X 200mm)   |
| Accessory             | Power Cord /Desktop stand               | Power Cord /Desktop stand               | Power Cord /Desktop stand | Power Cord /Desktop stand |

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## KUM SERIES 4K&8K HDR MONITOR / SPECIFICATIONS

| Model No.             | KUM-1720Q                        | KUM-2420Q                        | KUM-2720Q                   | KUM-3120Q                   | KUM-4320Q                   | KUM-5520Q                   | KUM-6520Q                   |
|-----------------------|----------------------------------|----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Panel                 | LCD                              | LCD                              | LCD                         | LCD                         | LCD                         | LCD                         | LCD                         |
| Display Size          | 17.3"                            | 24"                              | 27"                         | 31.5"                       | 43"                         | 55"                         | 65"                         |
| Resolution            | 3840 x 2160                      | 3840 x 2160                      | 3840 x 2160                 | 3840 x 2160                 | 3840 x 2160                 | 3840 x 2160                 | 3840 x 2160                 |
| Aspect Ratio          | 16:9                             | 16:9                             | 16:9                        | 16:9                        | 16:9                        | 16:9                        | 16:9                        |
| Viewing Angle         | 178° (H)<br>178° (V)             | 178° (H)<br>178° (V)             | 178° (H)<br>178° (V)        | 178° (H)<br>178° (V)        | 178° (H)<br>178° (V)        | 178° (H)<br>178° (V)        | 178° (H)<br>178° (V)        |
| Color Depth           | 16.7M                            | 1.07B                            | 1.07B                       | 1.07B                       | 1.06B                       | 1.07B                       | 1.07B                       |
| Brightness            | 400 cd/m <sup>2</sup>            | 540 cd/m <sup>2</sup>            | 350 cd/m <sup>2</sup>       | 350 cd/m <sup>2</sup>       | 350 cd/m <sup>2</sup>       | 500 cd/m <sup>2</sup>       | 400 cd/m <sup>2</sup>       |
| Contrast Ratio        | 1000:1                           | 1000:1                           | 1000:1                      | 1000:1                      | 1000:1                      | 1100:1                      | 1400:1                      |
| Input Voltage         | DC 12V<br>AC 100-240V<br>50/60Hz | DC 12V<br>AC 100-240V<br>50/60Hz | AC 100-240V<br>50/60Hz      | AC 100-240V<br>50/60Hz      | AC 100-240V<br>50/60Hz      | AC 100-240V<br>50/60Hz      | AC 100-240V<br>50/60Hz      |
| Operating Temperature | -10° – 50°                       | -10° – 50°                       | -10° – 50°                  | -10° – 50°                  | -10° – 50°                  | -10° – 50°                  | -10° – 50°                  |
| Power Consumption     | 50W                              | 70W                              | 63W                         | 90W                         | 100W                        | 170W                        | 180W                        |
| VESA Installation     | VESA MIS-D<br>(100 X 100mm)      | VESA MIS-D<br>(100 X 100mm)      | VESA MIS-D<br>(100 X 100mm) | VESA MIS-D<br>(200 X 200mm) | VESA MIS-D<br>(200 X 200mm) | VESA MIS-D<br>(200 X 200mm) | VESA MIS-D<br>(200 X 200mm) |
| Accessory             | Power Cord<br>Desktop stand      | Power Cord<br>Desktop stand      | Power Cord<br>Desktop stand | Power Cord<br>Desktop stand | Power Cord                  | Power Cord                  | Power Cord                  |

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**Konvision**

Broadcast and Professional Monitors

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