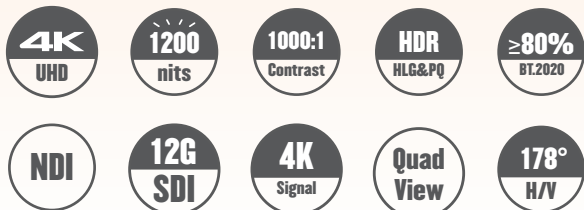


# KUM-24I0H-NDI

## 24 INCH 4K HDR NDI MONITOR



### INTRODUCTION

KUM-24I0H-NDI features a 24-inch 4K IPS LCD panel with 3840×2160 resolution, 1200nits brightness, ≥80%BT.2020 color gamut, and 178 ° (H/V) viewing angle. It enables high-bandwidth 4K NDI input monitoring and NDI-to-12G-SDI decoding output. Equipped with dual 12G-SDI and dual 3G-SDI input/loop-out interfaces, it connects with professional-grade equipment for applications in studios, TV/online live streaming, virtual production, high-end conferencing, medical, and education sectors.

### HIGHLIGHTS

- 178°(H/V) full viewing angle IPS LCD panel with 3840×2160 4K resolution
- 12-bit video processing with zero-latency display
- Full NDI & NDI/HX support (NDI 6.0 compatible)
- 1× high-bandwidth 4K NDI input/ 1× NDI-to-12G-SDI decoded output (SDI1)
- 2×12G-SDI & 2×3G-SDI input/loop-out, supporting 4K single/quad-link
- 4×3G-SDI quad-link (SQD/2SI) up to 4K60p
- 1×HDMI 2.0 input/loop-out with SDI/NDI conversion output
- 3D LUT calibration compatible with ColourSpace and Calman software
- 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 reading & Payload ID recognition for auto color space/EOTF matching
- Multiple camera color space/EOTF conversions to standard color space
- USB/Ethernet for custom 3D LUT loading and firmware updates
- Quad-view mode for mixed SDI/HDMI signals with variable resolutions/-frame rates
- 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.	KUM-24I0H-NDI
Backlight	LED
Size	24"
Resolution	3840×2160
Aspect Ratio	16:9
Viewing Angle	178°(H) / 178°(V)
Brightness	1200cd/m <sup>2</sup>
Contrast Ratio	1000:1
Color Depth	10bit
Input	
1×RJ45	High Bitrate 4K NDI IP data stream input interface
4×BNC	12G/6G/3G/HD/SD-SDI (×2, SDI1/SDI2) 3G/HD/SD-SDI (×2, SDI3/SDI4)
1×HDMI	HDMI 2.0
Output	
4×BNC	12G/6G/3G/HD/SD-SDI (S×2, DI1/SDI2) 3G/HD/SD-SDI (×2, 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	≤117W
Installation	VESA MIS-D (100×100mm)
Net Weight	≈9.1kg
Accessory	Power Cord /Desktop Stand

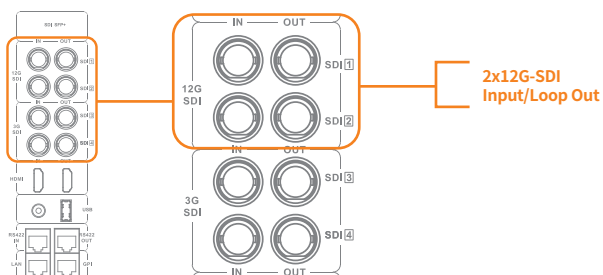
\*Specifications may be changed without prior notice.

## ▪ IPS LCD Panel, UHD/4K Resolution

Equipped with a 24-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.

## ▪ 4K Monitoring & NDI Decoding

1× high-bandwidth 4K NDI network input, 2×12G-SDI + 2×3G-SDI input/loop-out, 1×HDMI 2.0 input/output, Supports 4×3G-SDI quad-link input (SQD/2SI formats), NDI-to-12G-SDI decoding output.



## ▪ Intelligent NDI Source Selection

It supports FULL NDI & NDI|HX (NDI 6.0 compliant), automatically detects and rapidly switches NDI sources, including cross-subnet discovery.

## ▪ 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 Log Color Pipeline

Built-in various mainstream Camera Log Color Pipeline enable the conversion of camera color space and EOTF to standard color space and EOTF.

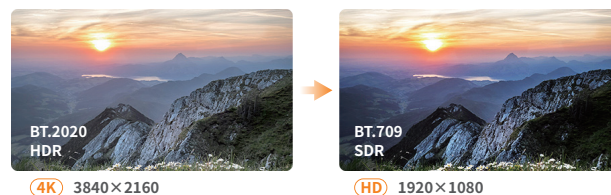


### Camera Log:

- 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.

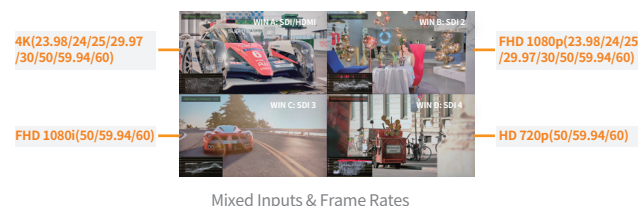


## ▪ Customizable 3D LUT Import & Output

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. 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

