

31" 4K HDR Monitor

LUM-310R



The LUM-310R is a 4K HDR Reference Master production monitor with a 31-inch wide Super-IPS 4K LCD (4096 × 2160) and a local-dimming backlight array designed to reproduce reference HDR content at a maximum luminance of 2,000 nits with a simultaneous deep black minimum of 0.002 nits. This makes possible a simultaneous contrast ratio nearing 1 million to 1.

The LUM-310R supports various HDR standards such as SMPTE 2084 PQ, Hybrid-Log Gamma (HLG), and others. It also supports multiple color gamuts including Rec.709, DCI, and Rec.2020. Signal I/O includes 3G/6G/12G-SDI input via one, two, or four SDI connections as well as HDMI (ver.2.0).

FRONT



- HDMI
- Single
- 2Si
- Quad
- Function (F1~F5)
- Scan
- Aspect
- Marker
- B. Light
- Video Range
- Info.
- Menu/Exit
- Down
- Up
- Enter
- Power

REAR : 4K Video Interface

- 4 x 3G-SDI In & Out : SDI-A / B / C / D
- 2 x 12G-SDI In & Out : SDI-A / B
- 1 x HDMI In : HDMI 2.0



Size	31.1"
Resolution	4096 x 2160(17:9)
Pixel Pitch	0.1704mm
Color Depth	1.07B
Viewing Angle (Typ.)	178°(H)/178°(V)
Luminance	HDR 2,000cd/m ² (Typ. 900cd/m ²)
Contrast Ratio	HDR 1,000,000:1
Display Area	698(H)×368(V)mm

FEATURES

- 31.1", True 4K Resolution (4096×2160)
- Local Dimming w/ 2,000+ direct LEDs
- Peak Luminance up to 2,000cd/m²
- Peak Contrast Ratio of 1,000,000:1
- Various Color Gamut up to DCI-P3
- 1.07 Billion Colors (True 10bit)
- Wide Viewing Angle w/ IPS tech.
- Matte Finish Panel (Anti-glare)
- 1:1 Pixel Mapping Modes for HD
- 4K / UHD Interface
 - Single 12G, Quad 3G-SDI
 - Single HDMI 2.0
- 3D LUT for Precise Color Reproduction
- Blue Only
- H/V Delay
- TVLogic Color Calibration Tool
- Mono
- Marker

Main Body Dimensions

- Main Body : 759.8 x 448.5 x 146.3 (mm)
29.91 x 17.66 x 5.76 (inch)
- With stand : 759.8 x 501.5 x 146.3 (mm)
29.91 x 19.74 x 5.76 (inch)

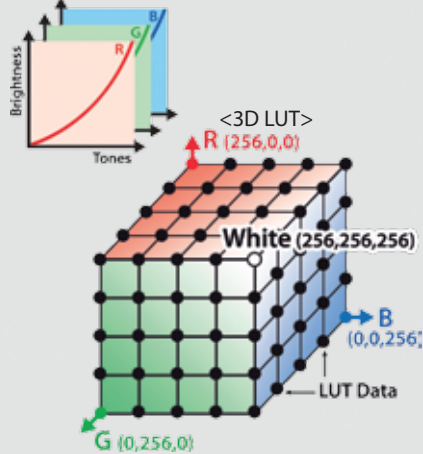
Support HDMI 2.0
for 4K/60p

HDMI
2.0 is Here!



3D LUT
3D LUT for Accurate Color Reproduction

<Standard LUT>



4K Mode (3G-SDI Quad Link)



4K Mode (3G-SDI 2 Sample Interleave Link)



4K Mode (12G-SDI Single Link)



4K Mode (HDMI 2.0 Single Link)



* It supports 4K signals up to 2160/60p

HDR based on LCD w/ Local Dimming Backlight system

SDR Monitor



0.1 ~ 100 (cd/m²)

HDR Monitor



0.002 ~ 2000 (cd/m²)

Supported 4K/UHD Interface

Interface		LUM-310A	LUM-310R
3G-SDI	Quad Link (~2160/60p)	O	O
6G-SDI	Single Link (~2160/30p)	O	O
12G-SDI	Single Link (~2160/60p)	X	O
HDMI 1.4	Quad Link (~2160/60p)	O	X
HDMI 2.0	Single Link (~2160/60p)	X	O

Specifications

LUM-310R	
Input	
4 x BNC	12G-SDI A/B Channel Input, 3G-SDI C/D Channel Input
1 x HDMI	HDMI Input
Output	
4 x BNC	12G-SDI A/B, 3G-SDI C/D Channel (Active Through Out)
Input Signal	
12G-SDI	12Gb/s
6G-SDI	6Gb/s
3G-SDI	2.970Gb/s
HD-SDI	1.485Gb/s
HDMI (2.0)	2160p/1080p/720p/480p
SDI Input Signal Formats	
SMPT E ST2082	3840×2160 60/50/30/25/24p
SMPT E ST2081	3840×2160 30/25/24p
SMPT E ST2048-1:2011	2048X1080 30/29.97/25/24/23.98p/psF, 60/59.94/50/48/47.95p
SMPT E ST2036-1:2009	3840×2160 60/59.94/59/30/29.97/25/24/23.98p
SMPT E ST425M-A/B	1080p(50/59.94/60)
SMPT E ST274	1080p(30/29.97/25/24/23.98p/psF)
SMPT E ST296	720p(60/59.94/50)
Audio IN	Embedded Audio / Analog stereo (Phone Jack)
Audio OUT	Analog stereo (Phone Jack)
Power	AC 100~240V(50~60Hz)
Power Consumption (Approx.)	TBD
Operating Temperature	0°C to 45°C(32°F to 113°F)
Storage Temperature	-20°C to 60°C(-4°F to 140°F)
Accessory	AC Power Cord / Stand

* Specifications may be changed without notice.