Series LM9000, 55" 4K Broadcast Monitor for signal monitoring in TV and Video production centres.

55" UHD Monitor for production and broadcast applications based upon a 10-bit quad processor and offers a resolution of 3840 x 2160 pixels. This monitor belongs to the LM9000 series and are also available in 24" and 31".

High performing monitor that support the reproduction of 4K video signals in Single and Quad-Link, both in "Square division" and "2-sample interleave" formats.

HDR technology, incorporated in these monitors, makes them able to display every part of the image, either dark or bright areas, with high brightness and clarity, enhancing image contrast and realism perception.

Monitor color calibration by connection to a color probe and Lightillusion control software version specifically designed for Kroma. This calibration generates a 3D look-up-table which is exclusive for each monitor, in order to correct non-linearity produced during the manufacturing process of each screen.

FEATURES

- 2xBNC 12G-SDI with their respective loops for Single-Link UHD and 4K signals display.
- 4xBNC 3G-SDI for 4K and UHD signals display with Quad-Link.
- 4K image processing in "Square Division" and "2-Sample Interleave" formats.
- ⌷ DCI 2.0 inputs (not compatible with HDCP) allowing for resolutions up to 2160p60.
- Monitor remote control through Ethernet port using IP protocol.
- Color space selection (3-D LUT) EBU, NTSC, SMPTE-C, REC709 and D-CINEMA.
- Color temperature selection: 3200K, 5500K, 6500K and 9300 K.
- Firmware upgrade via USB port. Remote control through GPI port (RJ45 connector).
- WaveForm and vectorscope.

- Audio level meter for up to 16 channels.
- HDR (high dynamic range) display function with several ST2048 and HLG curves. Demo mode for HDR / SDR comparison.
- Peaking filter and False Color.
- LTC and DVITC timecode display.
- Closed Caption according to 608 ANC, Transcoded 608 and CC708.
- Blue Only / Mono .
- Several marker formats with adjustable transparency and color: 4:3, 16:9, 14:9,13:9, 2.35:1, and 1.85:1.
- Safe Area: 80%, 85%, 88%, 90%, 93%, 95%, EBU Graphic, Action.
- Center Marker with three selectable sizes.
- H / V Flip function.
- Aspect ratios: 4:3,16:9, 15:9, 14:9, 13:9, 1.85:1, 2.35:1, 1:1, native.
- External power supply.

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Rear panel elements

- 4 SDI, input/output pairs with signal presence LED. They may operate as:
    - 2 12G-SDI switchable inputs, each one featuring its own follower output.
    - 4 3G-SDI inputs for 4K Quad-Link inputs, with its corresponding Quad-Link follower output.
- One DCI ⬜ (Digital Components Input) connector supporting resolutions up to 2160p60.
- One RS 232C serial port.
- One USB connector for firmware upgrade.
- One RJ45 connector for GPI (general purpose input).
- One RJ45 connector for Ethernet control.
- A pair of RS 422 input and follower connectors for UMD/IMDI.

- 24 V DC power supply connector.

Front panel controls and features

- Power switch.
- 14 control and quick-access keys.
- Navigation encoder.
- Front tri-color Tally .
- Headphone connector.
- 2 speakers.

SPECIFICATIONS	LM 9055
Active Area (Diagonal)	54.64"/ 1387.8mm
MODES	
Video Modes	3840x2160(23.98/24/25/29.97/30/50/59.94/60p)
	2048x1080p(23.98/24)
	1920x1080p(50/60/30psf/25psf/24psf/30/25/24)
	1920x1035i(60/59.94)
	1920x1080i(50/59.94/60)
	1280x720p(24/25/30/50/59.94/60)
	DCI ⬜ 720p / 1080p / 2160p
INPUTS	
Digital Video Inputs(SDI)	12G / 3G HD SDI
	SMPTE ST 2082-10/SMPTE424&425/SMPTE 292M/296M. (It does not support dual link)
Digital Video Inputs DCI	Up to 2160p DCI ⬜ (Not Supported 4:2:0 Color Format /only 3840x2160_4096x2160 4:2:0 Color Format Supported)
PICTURE	
Aspect Ratios	Pantalla completa, 16:9, 4:3, 14:9, 13:9, 1.85:1, 2.85:1, Pixel a Pixel.
Pixel (RGB Trio) Arrangement	3840 H x 2160 V Pixels (8,294,400 Pixels, 16:9)
Pixel (RGB Trio) Pitch, Depth	0.315 mm x 0.315 mm 1.07 Billion de colors 10bit
Brightness, typical	500 cd/m2
Contrast Ratio	1100:1
Color Processor	10 bit color Processor
Viewing Angle, contrast>10:1	R/L 178(Typ.), U/D 178(Typ.)
Panel Response Time	8 ms (G to G)
CONTROLS	
User Controls	ST-BY, SDI1, SDI2, 2SI, QUAD, HDMI, F1 ~5, MENU, SEL/INPUT, UP, DOWN, ADJUST
Remote Controls	IR, TCP/IP, RS-422, RS-232
LIGHT	
Light Source (standard)	Light Emitting Diode Backlight system
LED Life	50,000 hrs (Min)
CONNECTORS	
SDI Video Connectors	BNC x 8: 2x HD-3G-12G Single-Link input / 2x output, 4x 12G Quad-Link / 4x output
DCI Connectors	1 x input, format ⬜
DISPLAY	
Window (Display Area)	47.62 x 26.78" /1209.6 x 680.4 mm
POWER, DIMENSIONS & MISCELLANEOUS	
DC Power	24 VDC ±10%,
DC Connector	XLR-5M (pin 1,2=Gnd, pin 4,5=+Volts)
AC Power (detached power supply included)	100-240 VAC, 50/60 Hz
AC Power Connector:	IEC 320-C14 3 pin Male
Cabinet Dimensions	1241.4 mm x 734.0mm x 79.0mm
Weight	25 Kg
Operating (full spec)	0 / +50°C, no condensation, 0 - 10.000 feet (3.048m)
Storage	- 20 / +60°C, no condensation, 0 - 40,000 feet (12.192m)

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