

SRM-L560

56-inch Quad Full HD Reference
LCD monitor



Overview

The SRM-L560's Quad Full HD resolution and exceptional picture quality make it ideal for a wide variety of applications such as digital cinema post-production, industrial design, computer graphics (CG), simulation, high-quality print preview, air/marine traffic control, science and research laboratories, GIS (Geographic Information System) applications and HD Post production.

Its 56-inch* QFHD (Quad Full HD) screen delivers a staggering 3840 x 2160 resolution - four times that of Full HD (1920 x 1080). Picture quality is assured by the same TRIMASTER™ technology employed in the award-winning BVM-L Master Series monitors, with accurate colour reproduction, precise images and unsurpassed picture quality. The SRM-L560 also incorporates a 12-bit output accuracy signal processing engine, a Nonlinear Cubic Conversion (NCC) colour management system, and a sophisticated high-purity LED backlight system.

The SRM-L560 has multiple display modes including 4K/QFHD, Quad View with four Full HD signal inputs on a single screen, and Zoom which scales 2K/HD images to fill the screen. Inputs are similarly versatile with eight option slots for input adaptors including 3G-SDI and HD-SDI, while HDMI™ and DVI-D inputs are standard.

Features

High-performance 56-inch QFHD LCD Panel

The SRM-L560's 56-inch QFHD (3840 x 2160 resolution) LCD panel displays more than eight times WXGA (1280 x 768) resolution and four times Full HD resolution in a single screen with superb definition and high-accuracy colour gradation.

Ultra-high Precision Uniformity Correction

Superb brightness uniformity at every point of the SRM-L560's screen is achieved by aligning the LED backlight located behind the LCD panel. The precision backlight system also incorporates a uniformity control function using an RGB look-up table (LUT) and real-time colour feedback system.

Multi-colour Space

A Nonlinear Cubic Conversion (NCC) colour management system, with a unique 3-D look-up table (LUT), combined with a high-purity LED backlight system, enables the SRM-L560 to precisely reproduce an extremely wide colour gamut. It can accurately display industry standard gamuts such as EBU, SMPTE-C, and ITU BT.709 (sRGB). Furthermore, D-Cine* and xvYCC (x.v.Color) colour gamuts are also supported.

* The chromaticity of SMPTE RP 431-2-2007 is not completely displayed.

High-Purity LED Backlight System

By using a high-purity LED backlight system and advanced stability control, wide colour gamut and deep colour depth display can be realised. Consequently, the SRM-L560 is ideal for applications such as colour design, where critical and delicate colour reproduction is essential.

12-bit Precision Display Engine for Professional Use

The SRM-L560 is equipped with a unique signal processing engine developed for precision imaging. This Sony engine

incorporates 12-bit output accuracy for each colour process, and includes a high-quality I/P conversion algorithm, scaling processing, and a highly accurate colour management system.

Multiple Display Modes

The SRM-L560 provides three basic display modes: 4K/QFHD, Quad View, and 2K/HD Zoom. 4K/QFHD mode is used for displaying 4096 x 2160 or 3840 x 2160 signal inputs. Quad View mode is used for displaying simultaneously four Full HD (1920 x 1080) signal inputs to confirm and compare four pictures at once on the same single screen. 2K/HD Zoom mode is for zooming and displaying 2048 x 1080 or 1920 x 1080 signal inputs scaled to the 3.8K screen by doubling the size horizontally and vertically.

Versatile Input Signal Interfaces

The monitor supports various input signal formats such as those used in digital cinema (D-Cine) 4096 x 2160/24P*, 3840 x 2160/24P*, 2048 x 1080/24P, and variable computer signals up to 1920 x 1080/60P. DVI-D (HDCP correspondence) and HDMI inputs are provided as standard. Eight option slots are also provided as the interface for serial digital inputs. Various combinations of optional input adaptors enable input of 3G-SDI, HD-SDI, and Dual-link HD-SDI signals.

* The input signal is divided into four separate streams for transmission.

Operational Convenience

The SRM-L560 is supplied with user-friendly SRM Manager software for fast, efficient set-up and operation. Please note this software supports MS Windows 7 Professional (32-bit / 64-bit), Ultimate (32-bit / 64-bit), Windows Vista Ultimate SP1, Business SP1, and Windows XP Professional SP3. Note that MS Net Framework 3.5 SP1 must be downloaded and installed. Connection between PC and SRM-L560 must be via Ethernet connection (up to 32 monitors can be connected).

Aspect Ratio Conversion

An anamorphic image can be displayed with the corrected aspect ratio. Aspect ratios of 16:9, 1.896:1, and 2.39:1 can be selected.

Gamut Error Display

The SRM-L560 indicates out of gamut signals with a zebra pattern over the relevant area of the picture. This convenient function instantly alerts viewers without need for a waveform monitor.

Picture Calibration

White balance can be automatically adjusted using a commercially available probe (Konica Minolta CA-210, DK-Technologies PM 5639/06, or X-Rite Eye-One (i1) Pro).

Black Detail Mode

Due to the technology of LCD panels, backlight leaking from the panel surface is unavoidable. Black Detail mode compensates for this to provide more accurate monitoring of black details in dark, low-APL (average picture level) images.

4096 Image Slide

This function allows 4K (4096 x 2160) resolution images to be mapped, pixel-to-pixel, on the QFHD (3840 x 2160) panel without picture degradation. When the left or right edge of the picture frame needs to be viewed, the user can shift the image horizontally.

Specifications

Picture Performance

Panel	a-Si TFT Active Matrix LCD
Picture Size (Diagonal)	1422.4 mm 56 inches

Effective Picture Size (H x V)	1244.2 x 699.8 mm 49 x 27 1/2 inches
Resolution (H x V)	3840 x 2160 pixels (QFHD)
Aspect	16:9
Pixel Efficiency	0.9999
Backlight	High-purity LEDs
Panel Drive	RGB 10-bit
Panel Frame Rate	48 Hz, 50 Hz, 60 Hz
Viewing Angle (Panel Specification)	89°/89°/89°/89° (typical) (up/down/left/right contrast 10:1)
Normal Scan	0% scan
Native Scan	Mapping the pixels of the signal to the panel to one-to-one mode
Under Scan	3% under scan
Over Scan	Mask of 5% over scan portion in the normal scan
Color Temperature	D55, D61, D65, D93, D-Cine *1 , User
Standard Luminance	100 cd/m2 (Preset1 to Preset5) 48 cd/m2 (Preset (D-Cine)) (100% white signal input)

Color Space (Color Gamut)	ITU-R BT.709, EBU, SMPTE-C, D-Cine *2 , L560 Native *3 , S-GAMUT *4
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Warm-up Time	Approx. 30 minutes
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Input

HDMI Input	HDMI (x4) (HDCP correspondence, Deep Color correspondence)
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DVI-D Input	DVI-D (x4) (HDCP correspondence)
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Option Port	Eight (8) ports
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Serial Remote (LAN)	RJ-45 (x1) (Ethernet, 10BASE-T/100BASE-TX)
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Option A Input	Mini-DIN 8-pin (female) (x1)
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Option B Input	USB (Type A) (x1) (used for future expansion)
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Option C Input	D-sub 9-pin (female) (x4)
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General

Power Requirements	100 V to 240 V AC, 6.7 A to 3.2 A, 50/60 Hz
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Approx. 660 W (max.)

Approx. 360 W (average)

Power Consumption	power consumption in the default status)
Inrush Current	(1) Power ON, current probe method: 22 A (100 V), 26 A (240V) (2) Hot switching inrush current, measured in accordance with European standard EN55103-1: 17 A (230 V)
Operating Temperature	0°C to 35°C (Recommended: 20°C to 30°C) 32°F to 95°F (Recommended: 68°F to 86°F)
Operating Humidity	0% to 90% (no condensation)
Storage/Transport Temperature	-20°C to +60°C -4°F to +140°F
Storage/Transport Humidity	0% to 90%
Operating/Storage/Transport Pressure	700 hPa to 1060 hPa

Dimensions (W x H x D) *5	1352.3 x 824.3 x 434.8 mm 53 1/4 x 32 1/2 x 17 1/8 inches
Mass	Approx. 73.0 kg Approx. 160 lb 15 oz
Supplied Accessories	AC power cord (1) AC plug holder (1) Hooks (2) Operation Manual (Japanese, English, each 1) CD-ROM (1) Using the CD-ROM Manual (1)
Optional Accessories	BKM-243HS HD/D1-SDI Input Adaptor (with serial number 2108355 or higher) BKM-244CC HD/SD-SDI Closed Caption Adaptor BKM-250TG 3G/HD/SD-SDI Input Adaptor

Notes

*1 D-Cine: x = 0.314, y = 0.351
*2 Chromaticity point of SMPTE RP 431-2 is not covered in full.

Note

*3 The SRM-L560 individual chromaticity points. The widest color space setting of the signal is reproduced by the SRM-560. R ($x=0.663, y=0.313$)/G ($x=0.233, y=0.654$)/B ($x=0.150, y=0.060$) (typical)

*4 For displaying the color gamut of the wide color space mode S-GAMUT, which is available for the F23 or F35 Digital Cinematography Camera.

*5 The values for dimensions are approximate.

Gallery



