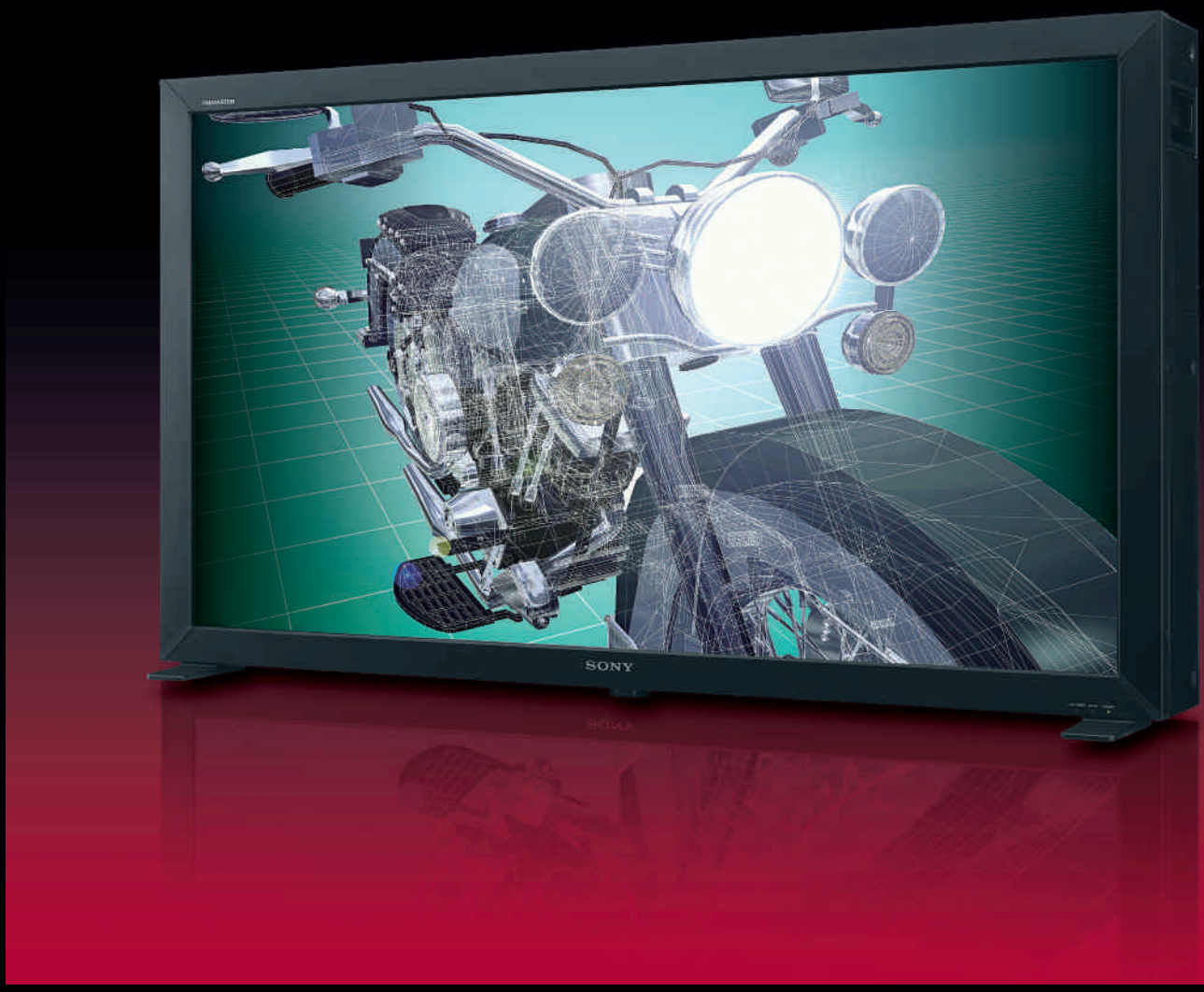
SONY
make.believe



SRM-L560

QFHD LCD Professional Monitor

TRIMASTER

Sony's SRM-L560
A New Dawn Beyond HD

LED Backlight

Professional Display Engine

If you need impressive size, uncompromising picture quality and resolution beyond HD, the Sony SRM-L560 is the perfect choice. Resolution is a staggering 3840 x 2160 pixels. Called QFHD (Quad Full HD), this is four times the pixel count of Full HD and far, far beyond WXGA. Size is a formidable 56 inches diagonal.[1] And the picture takes full advantage of Sony TRIMASTER™ technology, which excels in critical evaluation for cinematographers, colorists, shaders and other demanding image professionals. The SRM-L560 is also the very first QFHD professional monitor with a high-purity LED backlight.

The SRM-L560 is destined to become a benchmark in applications as diverse as advanced visualization in science and research laboratories, industrial design, GIS (Geographic Information System), air/marine traffic control, computer graphics (CG), simulation, printing preview, HD post-production, and digital cinema post-production.

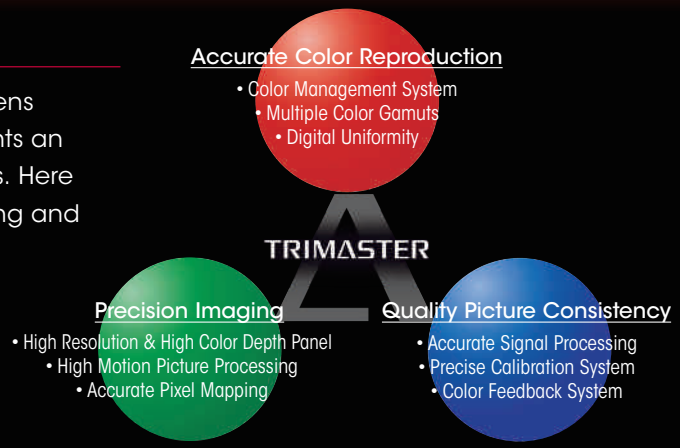
Display modes include 4K[2]/QFHD, Quad View (four independent full HD images), and 2K[3]/HD Zoom to the full screen size. HDMI™ and DVI-D inputs are standard, while eight slots accommodate 3G-SDI and HD-SDI input adaptors.[4] For asynchronous 4K/QFHD input signals, there's even a sync-lock function to minimize distortion.

For size, quality and resolution beyond HD, the SRM-L560 is the dawn of a whole new era.

1. Approx. 55.98 inches (1,422 mm) viewable area, measured diagonally.
2. 4K (4096 x 2160) images can be displayed.
3. 2048 x 1080 pixel resolution can be displayed.
4. The BKM-250TG, BKM-244CC, and BKM-243HS.

TRIMASTER Technology

Honored by multiple awards, the subject of dozens of patents, Sony TRIMASTER technology represents an exacting benchmark in LCD evaluation monitors. Here are superlative color accuracy, precision imaging and rock-solid consistency.



Main Features

High-performance QFHD LCD Panel

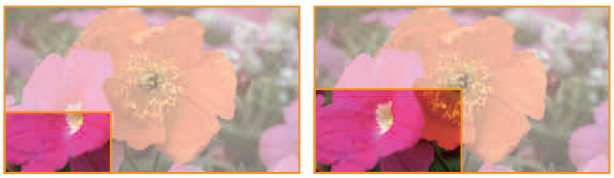
The SRM-L560 amazes viewers with a 56-inch[1] LCD panel of extraordinary resolution: 3840 x 2160. This is QFHD (Quad Full HD)—exactly four times the pixels of Full HD

8-bit gradation 10-bit gradation

(1920 x 1080) and over eight times the pixels of WXGA (1280 x 768). It's a huge canvas on which to display far larger, more complex images. This expansive view also minimizes tedious PC scrolling and zooming. In addition, the 10-bit panel driver delivers highly accurate color gradation..

1. Approx. 55.98 inches (1,422 mm) viewable area, measured diagonally.

QFHD (3840 x 2160 pixels)

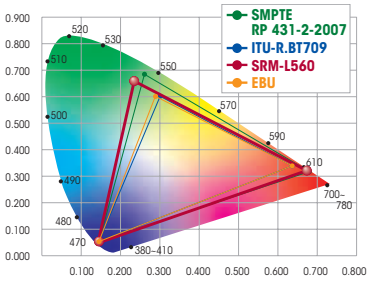


WXGA Full HD

Multiple Color Gamuts

While a CRT monitor provides only one color gamut, the SRM-L560 supports many. Sony's Nonlinear Cubic Conversion (NCC) and a unique 3-D look-up table (LUT) achieve high accuracy with the EBU, SMPTE-C, and ITU BT.709 (sRGB) gamuts, while also supporting D-Cine[1] and xvYCC[2] color gamuts.

1. The chromaticity of SMPTE RP 431-2-2007 is not completely displayed.
2. Also known as x.v.Color™ in consumer products.

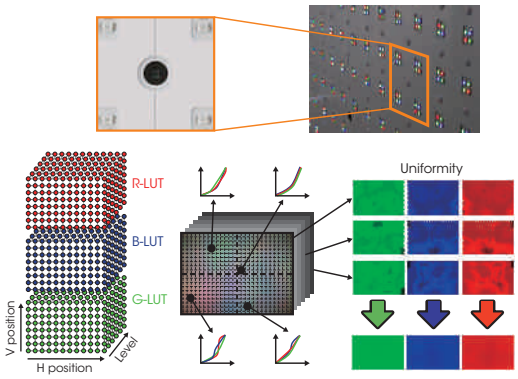


High-purity LED Backlight

The backlight consists of clusters of Sony-designed Red, Green and Blue LEDs for the widest color gamut ever in a Sony professional monitor. Built-in RGB sensors enable advanced stability control. You'll see deep, subtle color—ideal for color-critical design applications.

Uniformity Correction

This SRM-L560 achieves brightness uniformity beyond the reach of any previous QFHD monitor. An RGB look-up table (LUT), a color feedback system driven by a grid of RGB sensors, and precise adjustment of Sony's Red, Green and Blue backlight LEDs establish ultra-consistent brightness across the face of the screen.



12-bit Display Engine

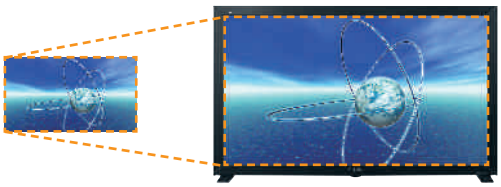
The signal processing engine of the SRM-L560 delivers exceptional 12-bit output accuracy for each color process. Other features include a high-quality interlace-to-progressive (I/P) conversion algorithm, high-precision scaling, and a highly accurate color management system.

Multiple Display Modes

The SRM-L560 provides three ways to take advantage of the 3480 x 2160 QFHD resolution.

- **4K/QFHD mode** displays 4096 x 2160 or 3840 x 2160 signal inputs.
- **Quad View mode** simultaneously displays four Full HD (1920 x 1080) signal inputs. So you can confirm and compare four simultaneous pictures on the same screen.
- **2K/HD Zoom mode** accepts 2048 x 1080 or 1920 x 1080 signal inputs and scales them to the full screen by doubling the size horizontally and vertically.

4K/QFHD Mode Quad View Mode



2K/HD Zoom Mode

Versatile Inputs

The monitor supports various input signal formats including 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. Standard inputs include HDMI™ interface and DVI-D input with HDCP support. Eight slots accommodate optional input adaptor cards for 3G-SDI, HD-SDI, and Dual-link HD-SDI signals.

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

Number of Signal Inputs in Single Screen Mode:

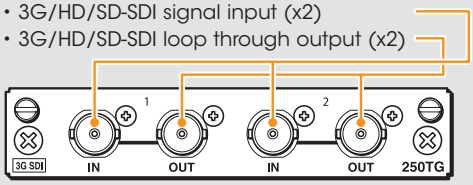
Input signal	Input adaptor	Required number of adaptors	Number of inputs		
			4K/QFHD	Quad View	2K/HD Zoom
3G-SDI	BKM-250TG	4	1 to 2	1 to 8	1 to 2
		8	1 to 4	1 to 16	1 to 4
Dual-link HD-SDI	BKM-250TG	4	1	1 to 4	1
		8	2	1 to 8	2
	BKM-243HS[a] BKM-244CC[a]	8	1 to 2	1 to 8	1 to 4
HD-SDI	BKM-250TG	4	1 to 2	1 to 8	1 to 2
		8	1 to 4	1 to 16	1 to 4
	BKM-243HS BKM-244CC	4	1 to 2	1 to 8	1 to 4
		8	1 to 4	1 to 16	1 to 8
DVI	–	–	1	1 to 4	–
HDMI	–	–	1	1 to 4	–

– : Not available
a) Use the same model of the adaptor.

Signal-interface Options

BKM-250TG, 3G/HD/SD-SDI Input Adaptor*

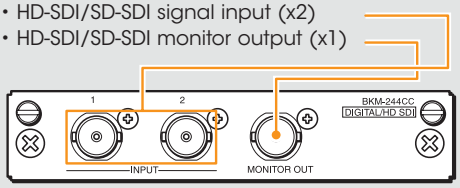
- 3G/HD/SD-SDI signal input (x2)
- 3G/HD/SD-SDI loop through output (x2)



* 3G-SDI, HD-SDI and SD-SDI signals are detected automatically

BKM-244CC, HD/SD-SDI Closed Caption Adaptor*

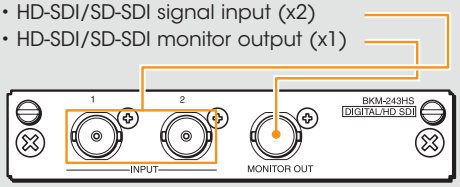
- HD-SDI/SD-SDI signal input (x2)
- HD-SDI/SD-SDI monitor output (x1)



* HD-SDI and SD-SDI signals are detected automatically
* Closed-caption decoders (EIA 708) are equipped

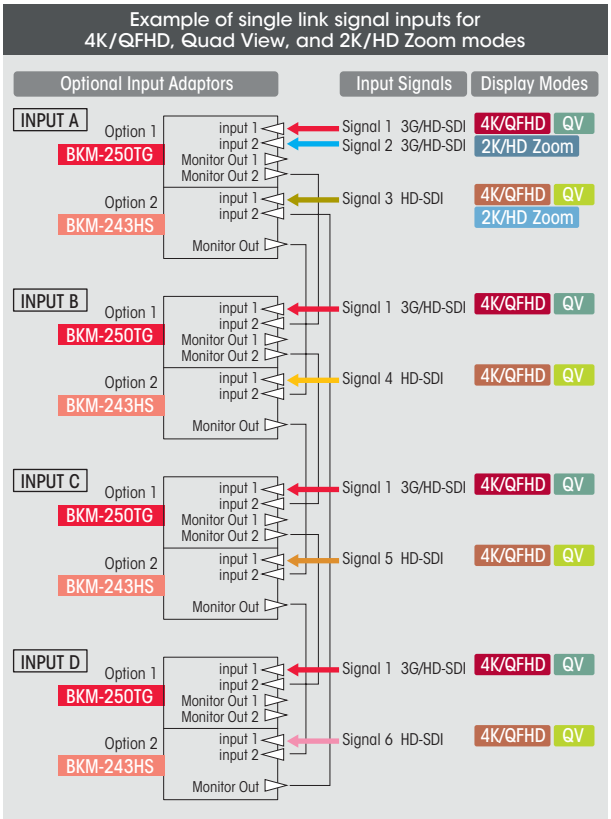
BKM-243HS, HD-SDI/SD-SDI Input Adaptor*

- HD-SDI/SD-SDI signal input (x2)
- HD-SDI/SD-SDI monitor output (x1)



* HD-SDI and SD-SDI signals are detected automatically

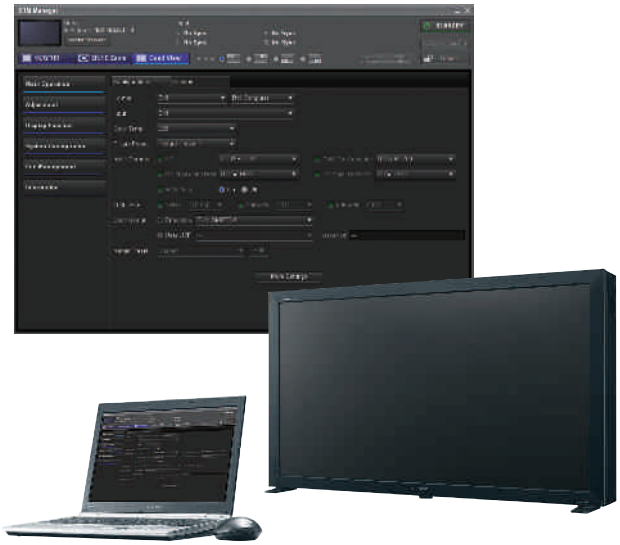
Example of 3G/HD-SDI Inputs and Display Modes:



Convenient PC Control

It's easy to configure up to 32 SRM-L560 monitors using SRM Manager software[1] installed on a personal computer (with an Ethernet connection[2] between the monitor and PC). An intuitive GUI makes setup and operation far more efficient and less time consuming.

1. Included with the monitor. 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.
2. Up to 32 monitors can be connected via Ethernet.



Aspect Ratio Conversion

You can display anamorphic images with the corrected aspect ratio. Select from 16:9, 1.896:1 and 2.39:1 aspect ratios. *

* When converting from 16:9 to 2.39:1, vertical resolution is degraded.

Gamut Error Display

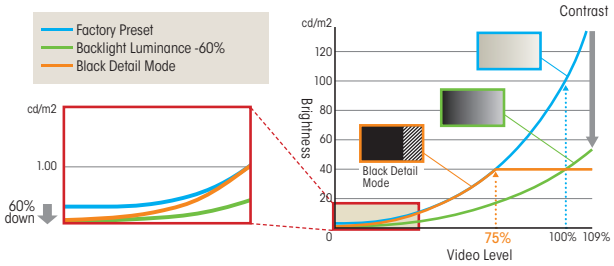
Traditionally, it took a waveform monitor to alert you to "illegal" or out-of-gamut colors. Now the SRM-L560 has Gamut Error Display, which indicates out-of-gamut color with a zebra pattern over the relevant area of the picture.

Picture Calibration

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

Black Detail Mode

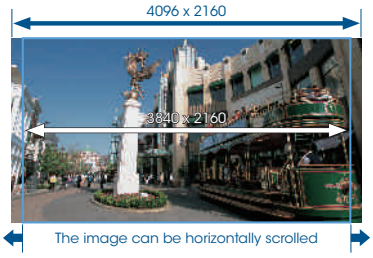
LCD panels can reduce but not eliminate backlight leakage into dark areas of the screen. When the average picture level (APL) is low, you may prefer to use Sony's Black Detail mode. This reduces black level to 40% of normal (100 cd/m2 at 100% signal) while it maintains gamma for correct color and gradients. In Black Detail mode, high-luminance areas (above 75 IRE) are clipped due to dynamic range of the monitor. You can indicate this clipping by selectable zebra patterns.



Normal Mode | Black Detail Mode

4096 Image Slide

Digital cinema 4K material can occupy up to 4096 x 2160 pixels, slightly exceeding QFHD (3840 x 2160). With 4096 Image Slide, you can shift the image to display the left or right edges while enjoying the unadulterated quality of full, pixel-to-pixel mapping.



Other Features

- Color temperature setting:[1] D65/D93/D61/D56/D-Cine/User
- Built-in test patterns:[2] 100% white, 20% gray, 0% black, PLUGE, Color Bar, 5-step gray scale, and Ramp signals
- Audio level meter/Time code display (requires optional BKM-250TG input adaptor)
- Scan selection and Native Scan mode:[3] Under (-3%), Normal (0%), and Over (5% blanking)
- Auto White Balance[1]
- Film Cadence[4]
- Blue only
- Chroma Up (+12dB)
- H Delay / V Delay[3]

1. Some limitations in Quad View mode.
2. Some limitations in 4K/QFHD and 2K/HD Zoom modes.
3. Quad View mode only.
4. Quad View and 2K/HD Zoom mode only.

Interface Chart by Input Boards

Input Signal \ Board	System Nomenclature	Signal Format	BKM-243HS*3	BKM-244CC*3	BKM-250TG*3
HD-SDI	1080/24PsF*2	10bit 4:2:2 Y/Cb/Cr	●	●	●
	1080/25PsF		●	●	●
	1080/30PsF*2		●	●	●
	1080/50i		●	●	●
	1080/60i*2		●	●	●
	1280 x 720/60P*2		●	●	●
	1280 x 720/50P		●	●	●
Dual-Link HD-SDI	1080/24PsF*2	10bit 4:4:4 Y/Cb/Cr, RGB	●*1	●*1	●*1
	1080/24P*2	12bit 4:4:4 RGB	●*1	●*1	●*1
	1080/25PsF	10bit 4:4:4 Y/Cb/Cr, RGB	●*1	●*1	●*1
	1080/25P	12bit 4:4:4 RGB	●*1	●*1	●*1
	1080/30PsF*2	10bit 4:4:4 Y/Cb/Cr, RGB 12bit 4:4:4 RGB	●*1	●*1	●*1
	1080/30P*2	12bit 4:4:4 RGB	●*1	●*1	●*1
	1080/50i	10bit 4:4:4 Y/Cb/Cr, RGB	●*1	●*1	●*1
	1080/60i*2	12bit 4:4:4 RGB	●*1	●*1	●*1
	1080/50P	10bit 4:2:2 Y/Cb/Cr	●*1	●*1	●*1
	1080/60P*2	10bit 4:2:2 Y/Cb/Cr	●*1	●*1	●*1
	2048 x 1080/24PsF*2	12bit 4:4:4 XYZ	●*1	●*1	●*1
	2048 x 1080/24P*2	10bit/12bit 4:4:4 RGB	●*1	●*1	●*1
3G-SDI	1080/24PsF*2 *3	10bit 4:4:4 Y/Cb/Cr, RGB			●
	1080/25PsF*3	12bit 4:4:4 Y/Cb/Cr, RGB			●
	1080/30PsF*2 *3				●
	1080/24P*2 *3				●
	1080/25P*3				●
	1080/30P*2 *3				●
	1080/50i*3				●
	1080/60i*3				●
	1080/50P	10bit 4:2:2 Y/Cb/Cr			●
	1080/60P*2				●
	1280 x 720/24P*2 *3	10bit 4:4:4 Y/Cb/Cr, RGB			●
	1280 x 720/25P*3				●
	1280 x 720/30P*2 *3				●
	1280 x 720/50P*3				●
	1280 x 720/60P*2 *3				●
	2048 x 1080/24PsF*2 *3	10bit 4:4:4 RGB			●
	2048 x 1080/24P*2 *3	12bit 4:4:4 RGB, XYZ			●

*1 Two BKM-243HS or BKM-244CC, or one BKM-250TG optional boards are used. *2 Also compatible with 1/1.001 frame rates. *3 Untested

HDMI/DVI-D Input Signal Formats

System	Interface sampling freq (MHz)	Aspect Ratio	Standard	HDMI RGB 4:4:4 8/10/12 bit YCbCr 4:4:4 8/10/12 bit YCbCr 4:2:2 12 bit	DVI-D Single Link RGB 4:4:4 8 bit
Viedo Signals					
640 x 480/60P*	25.200*	4:3	CEA-861	○	○
720 x 480/60P*	27.027*	4:3/16:9		○	○
1280 x 720/60P*	74.250*	16:9		○	○
1920 x 1080/60i*	74.250*	16:9	CEA-861	○	○
		2.39:1			
720 (1440) x 480/60i*	27.027*	4:3/16:9	CEA-861	○	○
720 x 576/50P	27.000*	4:3/16:9		○	○
1280 x 720/50P	74.250	16:9		○	○
1920 x 1080/50i	74.250	16:9	CEA-861	○	○
		2.39:1			
720 (1440) x 576/50i	27.000	4:3/16:9	CEA-861	○	○
1920 x 1080/60P*	148.500*	16:9	CEA-861	○	○
		2.39:1			
1920 x 1080/50P	148.500	16:9	CEA-861	○	○
		2.39:1			
1920 x 1080/24P*	74.250*	16:9	CEA-861	○	○
		2.39:1			
1920 x 1080/25P	74.250	16:9	CEA-861	○	○
		2.39:1			
1920 x 1080/30P*	74.250*	16:9	CEA-861	○	○
		2.39:1			
Computer Signals					
800 x 600/60P	40.000	4:3	VESA	○	
1024 x 768/60P	65.000	4:3		○	
1280 x 960/60P	108.000	4:3		○	
1280 x 1024/60P	108.000	5:4		○	
1400 x 1050/60P	121.750	4:3		○	
fH:28-75 kHz, fV:48-85 Hz Max. res.: 1920 x 1080/60P	25.000-162.000				○

* Also compatible with 1/1.001 frame rates.

Specifications

SRM-L560		
PICTURE PERFORMANCE		
Type		a-Si TFT Active Matrix LCD
Picture Size (Viewable Area)	(H x V)	49 x 27 1/2 inches (1244.16 x 699.84 mm)
	(Diagonal)	56 inches (1422.4 mm)
Aspect		16:9
Resolution (H x V)		3840 x 2160 pixels (QFHD)
Pixel Efficiency		99.99 %
Backlight		High-purity LEDs
Preset Brightness		100 cd/m² (D-Cine: 48 cd/m²) (when 100 % white signal is input)
Panel drive		RGB 10 bit
Panel frame rate		48/50/60 Hz
Viewing angle		176°/176° (typical) (horizontal/vertical, contrast 30:1)
INPUT/OUTPUT		
Video Input/Output		Eight (8) slots
PC input		DVI-D x 4 (HDCP correspondence)
HDMI		HDMI x 4 (HDCP correspondence, Deep Color correspondence)
Control	LAN	Ethernet (10BASE-T/100BASE-TX), RJ-45 (x1)
	Option A	Mini DIN 8-pin (female) (x1)
	Option B	USB (Type A) (x1)
	Option C	D-sub 9-pin (female) (x4)
GENERAL		
Power Requirements		100 V to 240 V AC, 6.7 A to 3.2 A, 50/60 Hz
Power consumption		Approx. 660 W (at maximum load, the luminance compensation due to the aged deterioration of the LED is included.) Approx. 360 W (default status)
Operating Temperature		32 °F to 95 °F (0 °C to 35 °C) (Recommended operation temperature 68 °F to 86 °F (° 20 C to 30 °C))
Operating Humidity		0 % to 90 % (no condensation)
Operating Pressure		700 hPa to 1060 hPa
Storage and Trans. Temperature		-4 °F to +140 °F (-20 °C to +60 °C)
Storage and Trans. Humidity		0 % to 90 %
Storage and Trans. Pressure		700 hPa to 1060 hPa
Dimensions (W x H x D)		53 1/4 x 32 1/2 x 17 1/8 inches (1352.3 x 824.3 x 434.8 mm) (incl. monitor stand depth)
Weight		Approx. 160 lb 15 oz (73 kg)
Supplied Accessories		AC power cord (1), AC plug holder (1), Hooks (2), Connection cable for color temperature adjustment (1), Operating Instructions (Japanese, English, each 1), CD-ROM (1), Using the CD-ROM Manual (1)

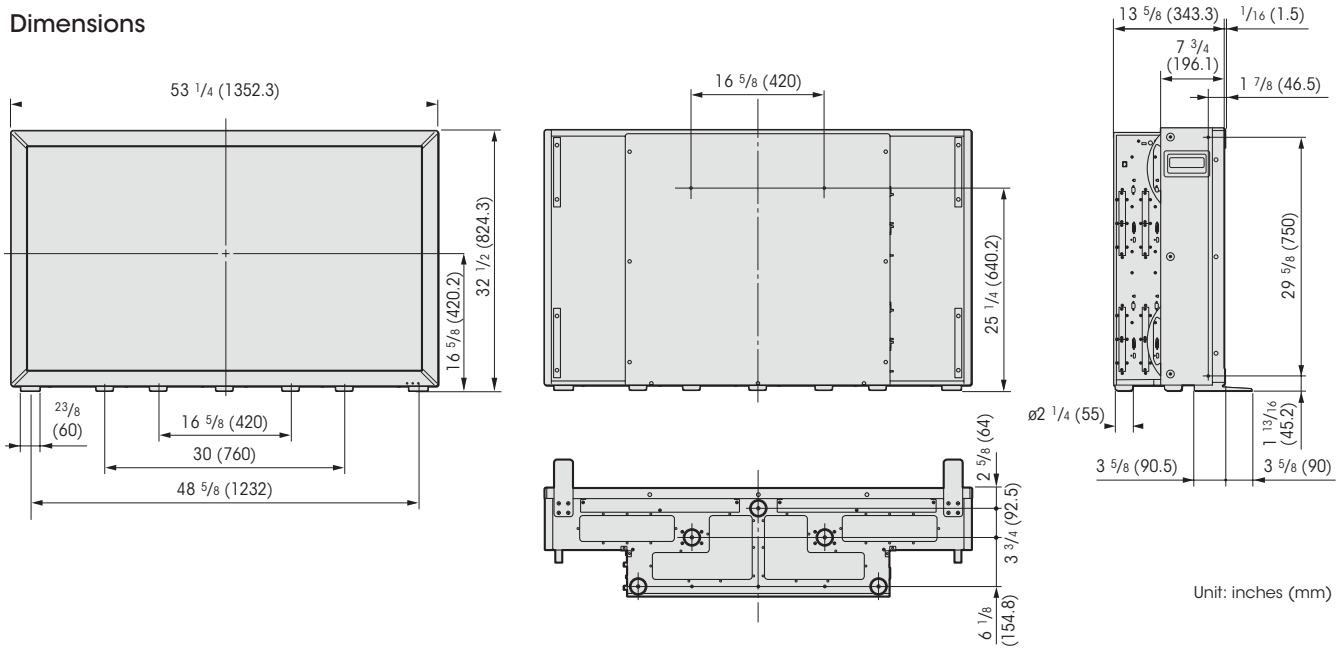
Optional Accessories

BKM-250TG
3G/HD/SD-SDI Input Adaptor

BKM-244CC
HD/SD-SDI Closed Caption Adaptor

BKM-243HS
HD-SDI/SD-SDI Input Adaptor

Dimensions



Unit: inches (mm)

Printed in USA (5/10)