

SONY



PVM-X2400

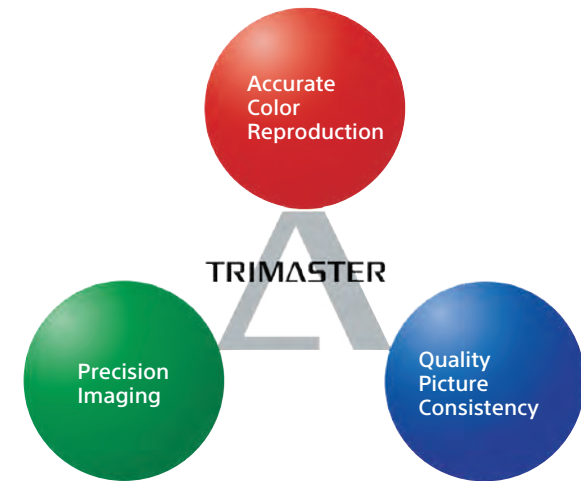
PVM-X1800

Professional Picture Monitor

TRIMASTER **4K** **HDR**

TRIMASTER 4K HDR

The new PVM-X1800 and PVM-X2400 4K HDR Picture Monitors offer high-grade picture quality and accurate color reproduction in highly portable form factors, ideal for on-set, on-location, truck, studio, and editing applications.



TRIMASTER Technology

TRIMASTER™ Technology is a design architecture used to elicit the full performance capabilities of professional flat-panel displays. It comprises the core technologies that enable the highest level of color accuracy, precision imaging, and quality picture consistency.

By design, the new PVM-X monitors share the same color gamut and brightness specifications as our flagship BVM-HX310 Master Monitor - ensuring color accuracy from production to post.

Live production

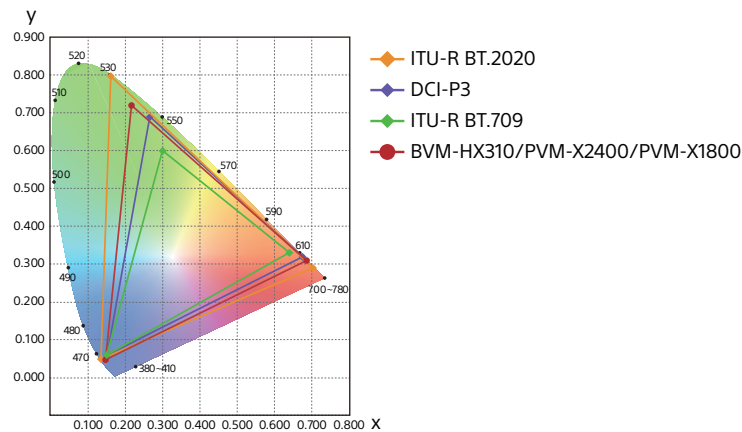
Shooting	Play-out	Lighting	Shading	Switching	Broadcasting
PVM-X	PVM-X	BVM-HX310 PVM-X	BVM-HX310	PVM-X	PVM-X

Dramas, movies, and commercials production

Shooting	CGI/VFX	Editing	Color Grading	Quality Control	Client Monitoring
PVM-X	PVM-X	PVM-X	BVM-HX310	BVM-HX310	BVM-HX310 PVM-X

4K Premium LCD Panel for true color matching with the BVM-HX310

The PVM-X Series has a 4K premium LCD panel (3840 x 2160) with a wide color gamut, high luminance, high contrast, fine grayscale, wide viewing angle, and great uniformity. Sony specified the panel to realize 1,000 cd/m² luminance and 100% color gamut coverage of the BVM-HX310, our flagship mastering monitor. This feature ensures color accuracy across the entire production chain from acquisition to finishing, benefiting a wide array of applications including live productions, sports, television series, documentaries, music videos, movies, drama, commercials, and more. All the professionals working on a project can share a common view and a common understanding of content color and tone even though they may be working at different times and different locations, facilitating smoother and more efficient communications.



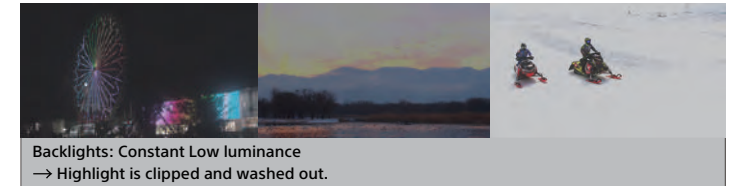
TRIMASTER Realizes accurate color reproduction, precise imaging, and quality picture consistency

TRIMASTER is a design architecture for accurate picture reproduction, precise imaging, and quality picture consistency. There are many advantages with the TRIMASTER panel control and signal processing system such as fast processing, accurate linearizing of an input signal with an Optical Electrical Transfer Function, accurate color reproduction, and more.

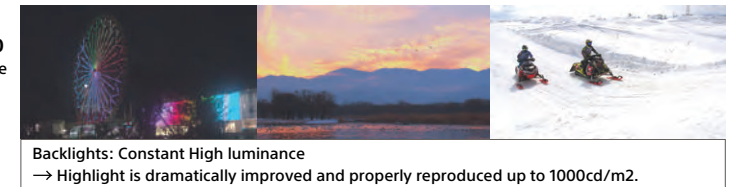
Dynamic Contrast Drive

The feature can be used to reproduce black representation in dark content, such as night scenes and provide specular highlights in bright content such as snow field and summer beach scenes. The Dynamic Contrast Drive feature provides a dynamic contrast ratio of 1,000,000:1.

Conventional LCD's
HDR display

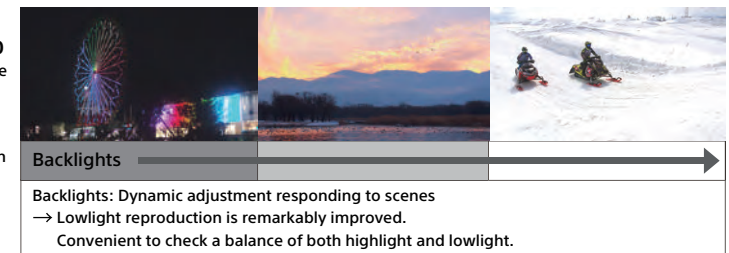


PVM-X2400/X1800
Dynamic Contrast Drive
OFF



PVM-X2400/X1800
Dynamic Contrast Drive
ON

Low High
Backlight luminance

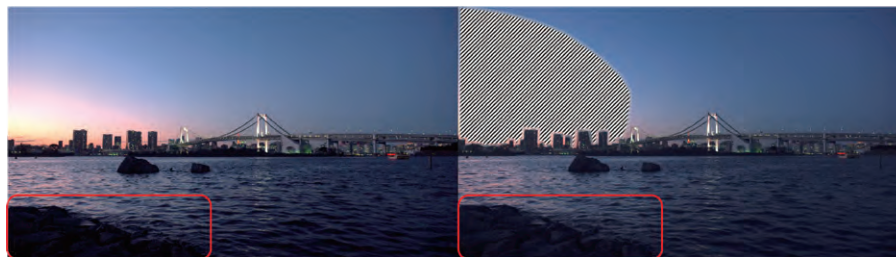
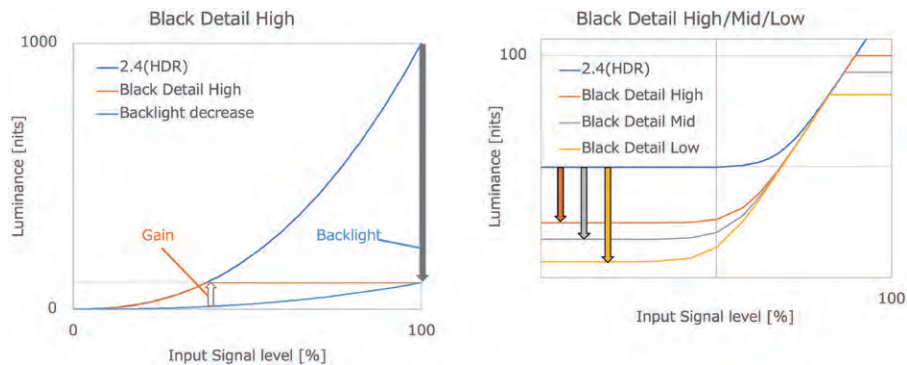


Note: The above three different scenes are a typical example.

Features

Black Detail High/Mid/Low

Due to the inherent nature of LCD panels, some backlight leakage is unavoidable. To compensate, Black Detail High/Mid/Low mode facilitates more accurate monitoring of black detail in dark, low-APL (average picture level) images. The backlight level is reduced, but gamma is maintained for correct color and grey scale. However, high luminance areas may become clipped due to the dynamic range of the monitor. Any clipped portions can be highlighted by zebra patterns or simply displayed as clipped.



(Images simulated)

User Interface

The OSD (On-Screen Display) menu structure has changed significantly from that of existing Sony monitors. A new, shallow menu structure means that settings can be displayed and changed quickly. There are 30 custom preset channels in which settings can be stored and loaded easily.

Newly introduced Channel Select buttons and function keys on the front of the panel facilitate fast setup changes and enable multiple users to save and retrieve their settings when needed. Setup data can be saved and locked with a password*. Though monitor settings can be changed, they cannot be overwritten without the password.

The process of creating setups has been greatly improved for efficiency. By pressing and holding down the function key, you can now gain direct access to the Settings menu screen. A new Function Key Preset is also available by which you can create different combinations of function keys, store them and recall them quickly when needed. Presets can now also be assigned custom names for easy identification and fast recall.

* User 3D LUT data is not password protected and can be independently added and deleted without passwords.

Shallow layered menu



F key shortcut menu



OSD keyboard for rename function



CH select menu

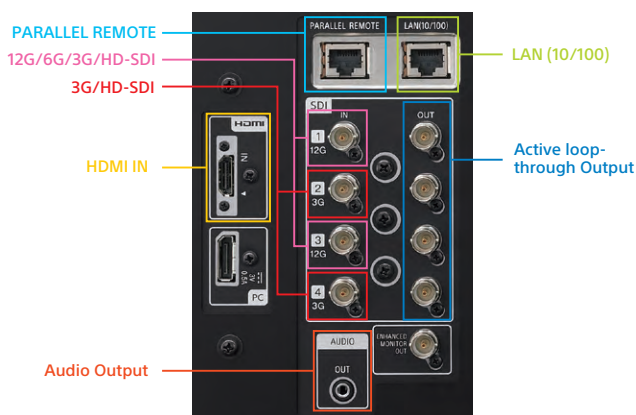
CH	CH Name	Input Select	VPD/HDMI Auto	EDID	Color Space	Color Temp.
01	4K_HLG	4K SDI Input1	On	ITU-R BT.2100(HLG)	ITU-R BT.2020	D65
02	4K_SRLive	4K SDI Input3	On	S-Log3(Live HDR)	ITU-R BT.2020	D65
03	4K_PO	HDMI	On	SMPTE ST. 2084	ITU-R BT.2020	D65
04	HD_SDR	2K SDI Input2	Off	2.4	ITU-R BT.709	User 1
05	2K_DCI	2K SDI Input4	Off	2.6	DCI-P3	User 2

Features

4K video input versatility for both new and traditional devices

The PVM-X Series monitor is equipped with built-in standard input interfaces: (12G/6G/3G/HD-SDI) BNC (x2), (3G/HD-SDI) BNC (x2), and HDMI (HDCP2.3/1.4) (x1).

- 12G simplifies wiring from the largest complex systems to the simplest field systems
- Quad-link 3G-SDI offers truly convenient system configuration with many existing traditional devices
- The HDMI interface supports rasterizers, multi-viewers, digital cameras, set-top boxes, UHD Blu-ray® players, computers, and many other devices



Various signal settings and automatic setting by Video Payload ID

Though the PVM-X series monitors support manual input signal settings, they also support Video Payload ID (VPID). This support means that the monitor can auto detect and identify incoming video signals and automatically adjust the monitor settings (EOTF, color space, RGB source information, etc.) to the input signal, reducing the risk of human error in high pressure live production environments.

User 3D LUT

User 3D LUT files can be loaded into the monitor's internal memory via a USB port on the front. Cube files with either 33 grid points or 17 grid points are supported. You can easily select different user LUTs and compare them in the Quad-View display. A total of 30 3D LUTs can be stored in the monitor for easy recall at any time.

Sony's unique Quad View Display

The PVM-X Series provides a Quad-View display for displaying four discreet HD signals fed via SDI or HDMI inputs. Each input can have discreet EOTF (SDR/HDR), color space, transfer matrix, color temperature, contrast, brightness, and 3D User LUT settings. The Quad View display can be used to compare different looks, verify camera exposures or simply save space by monitoring 4 sources on a single monitor.



4K/HD scopes with HDR/SDR scale and Audio Level Meter display

The PVM-X Series monitors are equipped with internal scopes. Both the waveform monitor and vector scope can be simultaneously displayed with scales for either HDR or SDR. The scales change automatically according to the monitor's selected EOTF setting. You can check both the input signal level and output luminance with the waveform monitor's HDR scale.

The waveform monitor has three different displays: Luminance, RGB/YCBCR Parade and RGB Overlay with the Gamut Error Display. The waveform of a specified line can also be displayed. There's also a zoom function selectable in an area of either 0 to 20%, or 0 to 30%. The Vector scope also supports a zoom function (in the central black area) for adjusting camera white balance.

In addition, an audio level meter displays 8 channels of embedded audio from the SDI or HDMI input. You can select to display either in ch1 to ch8, or ch9 to ch16.



Features

Flexible and Variable Area Markers, Aspect Marker, and Center Marker

Screen markers are becoming increasingly important in production environments creating content for varying distribution outlets. Two Flexible Area Markers or two Variable Area Markers with custom color and thickness can be utilized as frame composition guides.

Marker Variation

	Safe Area Marker		Aspect Marker*
	%	Dot (Pixel)	
Selectable Markers	80%, 88%, 90%, 93%, or variable	Flexible	16:9, 15:9, 14:9, 13:9, 4:3, 2.39:1, 2.35:1, 1.896:1, 1.85:1, or 1.66:1
Line Colors	White, Red, Green, Blue, Yellow, Cyan, or Magenta		
Line Width	1 to 5 dots (factory preset at 2 dots)		
Line Luminance Intensity	High (bright) or Low (dark)		
Blanking	—		Off: Blanking is released Black: Blanking Half: Half blanking

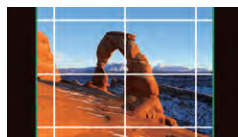
Marker Examples



Aspect Mode: 2.35:1,
Safe Area: Shape A,
Area Size: 80%



Aspect Mode: 14:9,
Safe Area: Shape B,
Area Size: 80%



Aspect Mode: 4:3,
Safe Area: Shape C,
Area Size: 80%



Marker Preset Image 1



Marker Preset Image 2



Marker Preset Image 3

Example : Shopping channels



Guide for proper framing

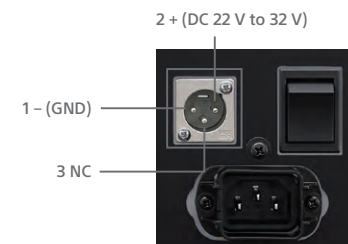


Zoom out to show a commercial product



DC operation

The PVM-X Series can be operated with DC 22V to DC 32V batteries, providing more flexibility and mobility for users looking for high brightness screens for on-set monitor applications. DC power is also ideal for field applications.



Yoke-mount and wall-mount capability

PVM-X2400 and PVM-X1800 monitors have screw holes on their side bezels for yoke mounting. This type of mounting is convenient when installing a monitor to a camera crane or monitor stand in the field. There are also wall-mount 100mm pitch holes on each monitor's rear panel.



Yoke-mount



Wall-mount

Features

Highly reliable mechanical design, optional protection panel, and 19-inch EIA standard rack-mount capability

For long-term reliability, Sony has run multiple thermal simulations and undertaken frequent heat load testing of customer installations over a long periods of time to develop the most efficient cooling system and mechanical structure, ensuring that our products pass our own exacting standards.

Optional PVMK-PX24 and PVMK-PX18* protection panels can protect the monitor from inadvertent scratches and impacts during transportation and preparation**. The panels can be easily attached and detached without tools - ideal for time-critical on-site setup. An optional PVMK-RX24 or PVMK-RX18 rack-mount bracket can be used to mount the monitor in a standard 19-inch EIA rack, with or without the protection panel in place.

*Clearance space at the top of the monitor is required to enable attachment and detachment.

** The optional protection panels are not designed to protect the monitor screen from backlight heat during operation.



PVM-X1800



PVM-X2400



PVM-X2400 (Side)

Room clearance connector panel design

The connector panel on the rear of each monitor is designed to allow sufficient cord clearance. This design protects the connectors, saves space, and enables cabling flexibility with easy identification of the connectors for system integration and maintenance.

4K (4096 x 2160) and 2K (2048 x 1080) input

The PVM-X Series monitor can display 4K and 2K inputs. The 4K/2K signal is displayed in two ways - as a full 4K/2K image scaled into a QFHD (3840 x 2160) screen or as a 4K/2K native display with side cut.

Power-on setting

Power-on setting allows you to select the required setting data when the monitor starts up; this includes last memory, user preset, and factory preset settings. This function means you can set the monitor accurately and quickly - this is particularly useful for rental equipment.

Optimized low-latency I/P conversion

With low latency, an I/P conversion system delivers automatically optimized signal processing according to input signals. This helps with editing and monitoring fast-moving images, and with synchronizing audio with lip sync.

Zoom function

The PVM-X Series can magnify the center of the screen, allowing you to check the camera focus.

Various basic functions

The monitor has various basic functions such as Contrast/Brightness/Chroma adjustments, Mono, Blue Only, RGB cut off, Internal Signal, Internal Signal Pattern, and more.

Mono



Red (G and B off)



Green (R and B off)



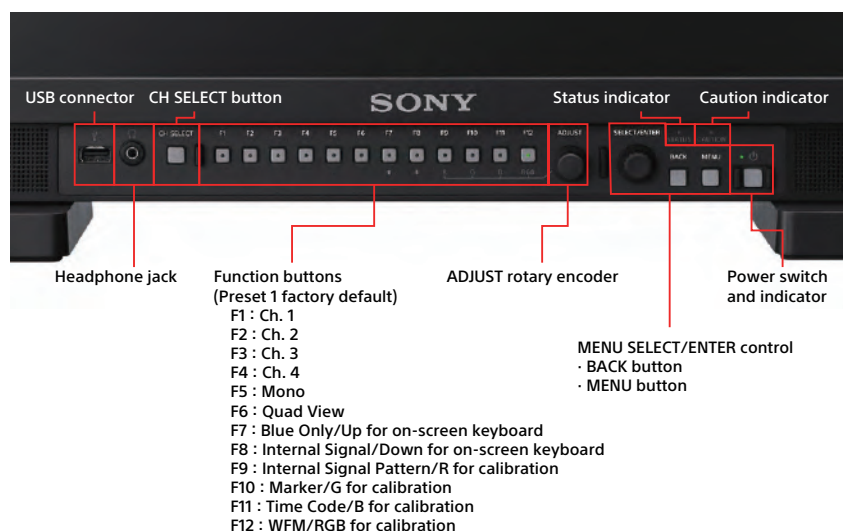
Blue (R and G off)



Features

New control panel

The traditional input keys have integrated Function keys for more flexible configuration of input selections and functions. One of these, the Channel Select key, is newly set up as a dedicated key for input selection. You are required to select each setting from a given set of multiple settings, avoiding any inadvertent change to the setting parameters. This is ideal for busy operators in demanding production environments as they can see the setting details in the on-screen display and, even under pressure, simply select the required input without error. For added convenience, this monitor feels familiar as it has the same tactile response as the BVM-HX310 control panel.



High sound pressure stereo speakers (2W+2W) with audio muting

For Onset monitoring, machine rooms, and other places with significant environmental noise, you need high sound pressure. 2W+2W front stereo speakers are more powerful than a monaural speaker or a rear speaker system and you can get a good stereophonic effect from them. When you need to put the monitor on mute very quickly, you can simply press the assigned Audio Muting Function key.



Options



PVMK-PX24
Protection panel for PVM-X2400



PVMK-PX18
Protection panel for PVM-X1800



PVMK-RX24
Rack Mounting Bracket for PVM-X2400



PVMK-RX18
Rack Mounting Bracket for PVM-X1800



BKM-17R
Monitor Control Unit

The PVM-X2400/X1800 monitors and the BKM-17R Monitor Control Unit are equipped with an Ethernet port, allowing remote control of display parameters across a standard Ethernet connection. One BKM-17R Monitor Control Unit can control up to thirty-two (32) monitors*1.

*1 Includes BVM-HX310, BVM-X300, PVM-X (Except PVM-X300), BVM-L, PVM-L, and BVM-E/-F Series monitors.

INPUT/OUTPUT	
LAN	10BASE-T/100BASE-TX connector: RJ-45 (x1)
DC 12 V IN	Circle pin (x1)
USB (USB2.0) connector	USB Standard A (x1)
GENERAL	
Power requirements	DC IN: 12 V, 0.5 A (supplied with the connected monitor or the connected AC adapter) AC adapter (AC-UES1230 or ACUES1230M) AC adaptor: AC IN: 100 V to 240 V, 50/60 Hz, DC OUT: 12 V, 3 A
Current consumption	12 V DC, 0.5 A
Power consumption	Approx. 6 W
Operating temperature	0°C to 35°C (32°F to 95°F), Recommended: 20°C to 30°C (68°F to 86°F)
Operating humidity	0% to 90% (no condensation)
Operating pressure	700 hPa to 1060 hPa
Storage / transport temperature	-10°C to +40°C (14°F to 104°F)
Storage / transport humidity	0% to 90%
Operating / storage / transport pressure	700 hPa to 1060 hPa
Dimensions (W x H x D)	424 x 58.8 x 169.6 mm (16 3/4 x 2 3/8 x 6 3/4 inches)
Weight	2.1 kg (4 lb 10 oz)
Supplied accessories	AC adapter (AC-UES1230 or ACUES1230M)(1), AC power cord (1), Rack mount brackets (2), Rack mount bracket attachment screws(4), Function labels (2), DC-cord secure connection attachment (1), DC-cord secure connection screw (1), Before Using This Unit (1), CD-ROM (1), European Representative (1)

Formats

Signal system	Signal format			
2K/HD (HD-SDI)				
1920 × 1080/60i*1, 50i, 30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1	4 : 2 : 2 YCbCr	10 bit		
1280 × 720/60p*1, 50p, 30p*1, 25p, 24p*1				
2048 × 1080/30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1				
2K/HD (HD-SDI Dual link)				
1920 × 1080/60p*1, 50p	4 : 2 : 2 YCbCr	10 bit		
1920 × 1080/60i*1, 50i, 30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1	4 : 4 : 4 RGB	10 bit / 12 bit		
	4 : 4 : 4 YCbCr			
2048 × 1080/60p*1, 50p, 48p*1	4 : 2 : 2 YCbCr	10 bit		
2048 × 1080/30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1	4 : 4 : 4 RGB			
	4 : 4 : 4 YCbCr	10 bit / 12 bit		
2K/HD (3G-SDI)				
1920 × 1080/60p*1, 50p	4 : 2 : 2 YCbCr	10 bit	Level A / Level B-DL	
1920 × 1080/60i*1, 50i, 30PsF*1, 25PsF, 24p*1	4 : 4 : 4 RGB	10 bit / 12 bit	Level A / Level B-DL	
	4 : 4 : 4 YCbCr			
1920 × 1080/30p*1, 25p, 24PsF*1	4 : 4 : 4 RGB	10 bit / 12 bit	Level A / Level B-DL	
	4 : 4 : 4 YCbCr			
1280 × 720/60p*1, 50p, 30p*1, 25p, 24p*1	4 : 4 : 4 RGB	10 bit	Level A	
	4 : 4 : 4 YCbCr			
2048 × 1080/60p*1, 50p, 48p*1	4 : 2 : 2 YCbCr	10 bit	Level A / Level B-DL	
2048 × 1080/30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1	4 : 4 : 4 RGB	10 bit / 12 bit	Level A / Level B-DL	
	4 : 4 : 4 YCbCr			
2K/HD (3G-SDI Dual Link)				
1920 × 1080/60p*1, 50p	4 : 4 : 4 RGB	10 bit	Level A / Level B-DL	
	4 : 4 : 4 YCbCr			
2048 × 1080/60p*1, 50p, 48p*1	4 : 4 : 4 RGB	10 bit / 12 bit	Level A / Level B-DL	
	4 : 4 : 4 YCbCr			
4K/UHD (3G-SDI Dual Link)				
3840 × 2160/30p*1, 25p, 24p*1	4 : 2 : 2 YCbCr	10 bit	Level C / Level B-DS	2-sample interleave division / Square division*2
3840 × 2160/30PsF*1, 25PsF, 24PsF*1	4 : 2 : 2 YCbCr	10 bit	Level B-DS	Square division
4096 × 2160/30p*1, 25p, 24p*1	4 : 2 : 2 YCbCr	10 bit	Level C / Level B-DS	2-sample interleave division / Square division*2
4096 × 2160/30PsF*1, 25PsF, 24PsF*1	4 : 2 : 2 YCbCr	10 bit	Level B-DS	Square division
4K/UHD (HD-SDI Quad Link)				
3840 × 2160/30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1	4 : 2 : 2 YCbCr	10 bit		Square division
4096 × 2160/30p*1, 30PsF*1, 25p, 25PsF, 24p*1, 24PsF*1	4 : 2 : 2 YCbCr	10 bit		Square division
4K/UHD (3G-SDI Quad Link)				
3840 × 2160/60p*1, 50p	4 : 2 : 2 YCbCr	10 bit	Level A / Level B-DL	2-sample interleave division / Square division
3840 × 2160/30p*1, 25p, 24p*1	4 : 4 : 4 RGB	10 bit / 12 bit	Level A / Level B-DL	2-sample interleave division / Square division
	4 : 4 : 4 YCbCr			
3840 × 2160/30PsF*1, 25PsF, 24PsF*1	4 : 4 : 4 RGB	10 bit / 12 bit	Level A / Level B-DL	Square division
	4 : 4 : 4 YCbCr			
4096 × 2160/60p*1, 50p, 48p*1	4 : 2 : 2 YCbCr	10 bit	Level A / Level B-DL	2-sample interleave division / Square division
4096 × 2160/30p*1, 25p, 24p*1	4 : 4 : 4 RGB	10 bit / 12 bit	Level A / Level B-DL	2-sample interleave division / Square division
	4 : 4 : 4 YCbCr			
4096 × 2160/30PsF*1, 25PsF, 24PsF*1	4 : 4 : 4 RGB	10 bit / 12 bit	Level A / Level B-DL	Square division
	4 : 4 : 4 YCbCr			
4K/UHD (12G-SDI Single Link)				
3840 × 2160/60p*1, 50p	4 : 2 : 2 YCbCr	10 bit	Mode 1	2-sample interleave division / Square division
3840 × 2160/30p*1, 25p, 24p*1	4 : 4 : 4 RGB	10 bit / 12 bit	Mode 1	2-sample interleave division / Square division
	4 : 4 : 4 YCbCr			
4096 × 2160/60p*1, 50p, 48p*1	4 : 2 : 2 YCbCr	10 bit	Mode 1	2-sample interleave division / Square division
4096 × 2160/30p*1, 25p, 24p*1	4 : 4 : 4 RGB	10 bit / 12 bit	Mode 1	2-sample interleave division / Square division
	4 : 4 : 4 YCbCr			
4K/UHD (6G-SDI Single Link)				
3840 × 2160/30p*1, 25p, 24p*1	4 : 2 : 2 YCbCr	10 bit	Mode 1	2-sample interleave division / Square division

*1 Also compatible with 1/1.001.

*2 Level C when 2-sample interleave division(2SI); level B-DL when square division(SQD).

HDMI

Signal system	Signal structure	
640 × 480/60P*1	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
720 × 480/60P*1	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
1280 × 720/60P*1	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
1920 × 1080/60I*1	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
720 × 576/50P	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
1280 × 720/50P	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
1920 × 1080/50I	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
1920 × 1080/60P*1	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
1920 × 1080/50P	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
1920 × 1080/30P*1	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
1920 × 1080/25P	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
1920 × 1080/24P*1	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit

Signal system	Signal structure	
2048 × 1080/60P*1	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
2048 × 1080/50P	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
2048 × 1080/48P	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
2048 × 1080/30P*1*6	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
2048 × 1080/25P*6	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
2048 × 1080/24P*1	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
3840 × 2160/30P*1*2	4:4:4 (RGB)	12/10/8bit*3*5
	4:4:4 (YCbCr)	12/10/8bit*3*4
	4:2:2 (YCbCr)	12bit
3840 × 2160/25P*2	4:4:4 (RGB)	12/10/8bit*3*5
	4:4:4 (YCbCr)	12/10/8bit*3*4
	4:2:2 (YCbCr)	12bit
3840 × 2160/24P*1*2	4:4:4 (RGB)	12/10/8bit*3*5
	4:4:4 (YCbCr)	12/10/8bit*3*4
	4:2:2 (YCbCr)	12bit
4096 × 2160/30P*1*2	4:4:4 (RGB)	12/10/8bit*3*5
	4:4:4 (YCbCr)	12/10/8bit*3*4
	4:2:2 (YCbCr)	12bit
4096 × 2160/25P*2	4:4:4 (RGB)	12/10/8bit*3*5
	4:4:4 (YCbCr)	12/10/8bit*3*4
	4:2:2 (YCbCr)	12bit
4096 × 2160/24P*1*2	4:4:4 (RGB)	12/10/8bit*3*5
	4:4:4 (YCbCr)	12/10/8bit*3*4
	4:2:2 (YCbCr)	12 bit

Signal system	Signal structure	
3840 × 2160/60P*1*2	4:4:4 (RGB)	8bit*3
	4:4:4 (YCbCr)	8bit*3
	4:2:2 (YCbCr)	12bit*3
3840 × 2160/50P*2	4:2:0 (YCbCr)	8bit
	4:4:4 (RGB)	8bit*3
	4:4:4 (YCbCr)	8bit*3
4096 × 2160/60P*1*2	4:2:2 (YCbCr)	12bit*3
	4:2:0 (YCbCr)	8bit
	4:4:4 (RGB)	8bit*3
4096 × 2160/50P*2	4:4:4 (YCbCr)	8bit*3
	4:2:2 (YCbCr)	12bit*3
	4:2:0 (YCbCr)	8bit
800 × 600/60P	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12bit
1024 × 768/60P	4:4:4 (RGB)	12/10/8bit
	4:4:4 (YCbCr)	12/10/8bit
	4:2:2 (YCbCr)	12 bit

*1 Also compatible with the frame rate 1/1.001.

*2 This signal is described as "equivalent to the 4K signal" in this manual.

*3 "Enhanced Format" must be selected in the "HDMI Signal Format" (page 29). Also, when using this input signal, use the PremiumHigh-Speed HDMI cable. (30P, 25P, 24P signals are only for the 4:4:4 RGB/YCbCr 10/12bit signal.)

*4 The 4:4:4(YCbCr)12/10bit signal is displayed after converting to the 4:2:2(YCbCr)12/10bit signal.

*5 The 4:4:4(RGB)12/10bit signal is displayed after converting to the 4:2:2(YCbCr)12/10bit signal or is displayed as a 4:4:4(RGB)8bit signal.

*6 This signal system is not described in EDID (Extended Display Identification Data).

Specifications

	PVM-X2400	PVM-X1800
Picture performance		
Panel	α-Si TFT Active Matrix LCD	
Picture size (diagonal)	609.6 mm (24 inches)	469.2 mm (18.4 inches)
Effective Picture size (H x V)	531.6 x 299.1 mm (21 x 11 7/8 inches)	408.96 x 230.04 mm (16 1/8 x 9 1/8 inches)
Resolution (H x V)	3840 x 2160 pixels	
Aspect	16 : 9	
Display colors	Approx. 1.07 billion colors	
Panel frame rate	48 Hz / 50 Hz / 60 Hz (48 Hz and 60 Hz are also compatible with 1/1.001 frame rates)	
Viewing angle (panel specification) (contrast > 10:1)	89°/89°/89°/89° (up/down/left/right contrast > 10:1)	
Color temperature	D60, D65, D93, DCI*1, and user 1-10 (5,000 K to 10,000 K adjustable)	
Luminance (panel specification) (typical)	1000 cd/m2	
Color space (color gamut)	ITU-R BT.2020*2, ITU-R BT.709, DCI-P3*2, S-GAMUT3*2, S-GAMUT3.Cine*2	
Transmission Matrix	ITU-R BT.2020 (Non-constant luminance is supported), ITU-R BT.709	
EOTF	2.2, 2.4, 2.6, 2.4 (HDR), S-Log3, S-Log3 (Live HDR), SMPTE ST 2084, ITU-R BT.2100 (HLG)	
Input		
SDI	(12G/6G/HD-SDI) BNC (x2), (3G/HD-SDI) BNC (x2), Input impedance: 75 Ω unbalanced	
HDMI	HDMI (HDCP2.3/1.4) (x1)	
Parallel Remote	RJ-45 8-pin (x1) (Fixed pin assignment)	
Serial remote (LAN)	Ethernet (10BASE-T/100BASE-TX), RJ-45 (x1)	
DC Input	XLR-type 3-pin (male) (x1), DC 22 V to 32 V (output impedance 0.05 Ω or less)	
Output		
SDI Output	(12G/6G/3G/HD-SDI) BNC (x2) , (3G/HD-SDI) BNC (x2) , Output impedance: 75 Ω unbalanced	
Audio monitor	Stereo mini jack (x1)	
Speaker (built-in) Output	2.0 W+2.0W (Stereo)	
Headphones	Stereo mini jack (x1)	
General		
Power requirement	AC 100 V to 240 V, 2.6 A to 1.0 A, 50/60 Hz DC 22 V to 32 V, 9.9 A to 6.3 A	AC 100 V to 240 V, 2.1 A to 0.8 A, 50/60 Hz DC 22 V to 32 V, 8.2 A to 5.1 A
Power consumption	Approx. 225 W (Maximum at AC operation) Approx. 205 W (Maximum at DC operation)	Approx. 180 W (Maximum at AC operation) Approx. 165 W (Maximum at DC operation)
Operating temperature	0°C to 35°C (32°F to 95°F) Recommended: 20°C to 30°C (68°F to 86°F)	
Operating humidity	30% to 85% (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)	568 x 382 x 158.5 mm*3 (22 3/8 x 15 1/8 x 6 1/4 inches) (without monitor stand) 568 x 403.5 x 178.5 mm*3 (22 3/8 x 16 x 7 1/8 inches) (with monitor stand)	444 x 310 x 148.5 mm*3 (17 3/8 x 12 1/4 x 5 7/8 inches) (without monitor handle and monitor stand)*4 444 x 368.7 x 168.5 mm*3 (17 3/8 x 14 5/8 x 6 3/4 inches) (with monitor handle and monitor stand)
Weight	Approx. 10.5 kg (23 lb 2 oz)	Approx. 8.2 kg (18 lb 1 oz)
Supplied accessories	AC power cord (1), AC plug holder (1), CD-ROM (1), Before Using This Unit (1)	

*¹ DCI: x=0.314, y=0.351

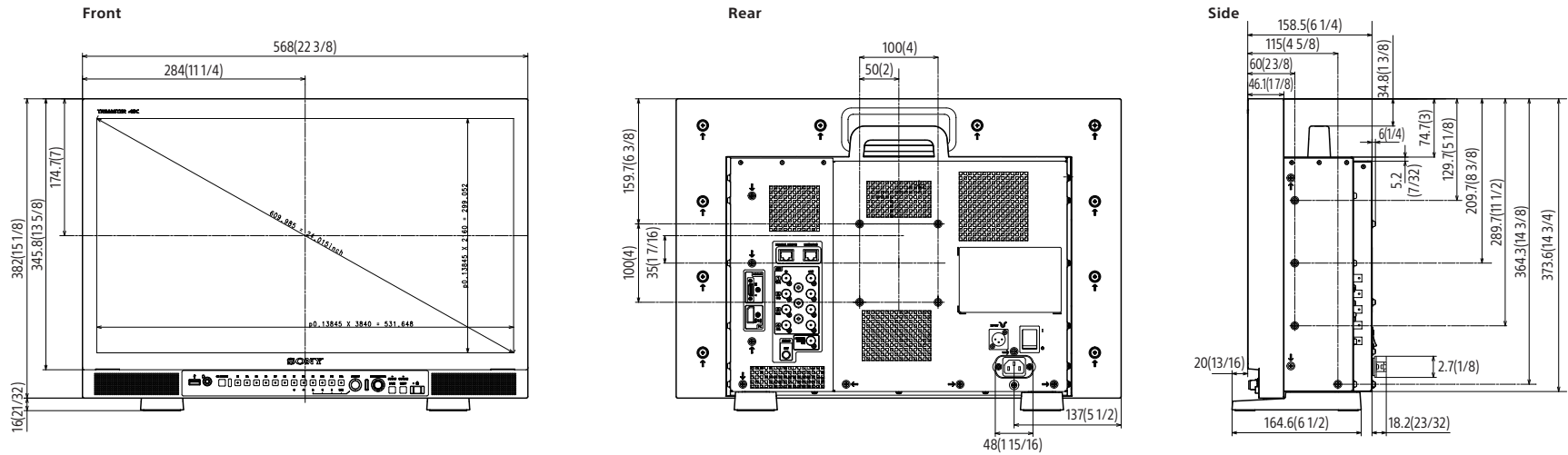
*² The PVM-X2400 and PVM-X1800 do not cover selected color space in full.

*³ Without projection parts.

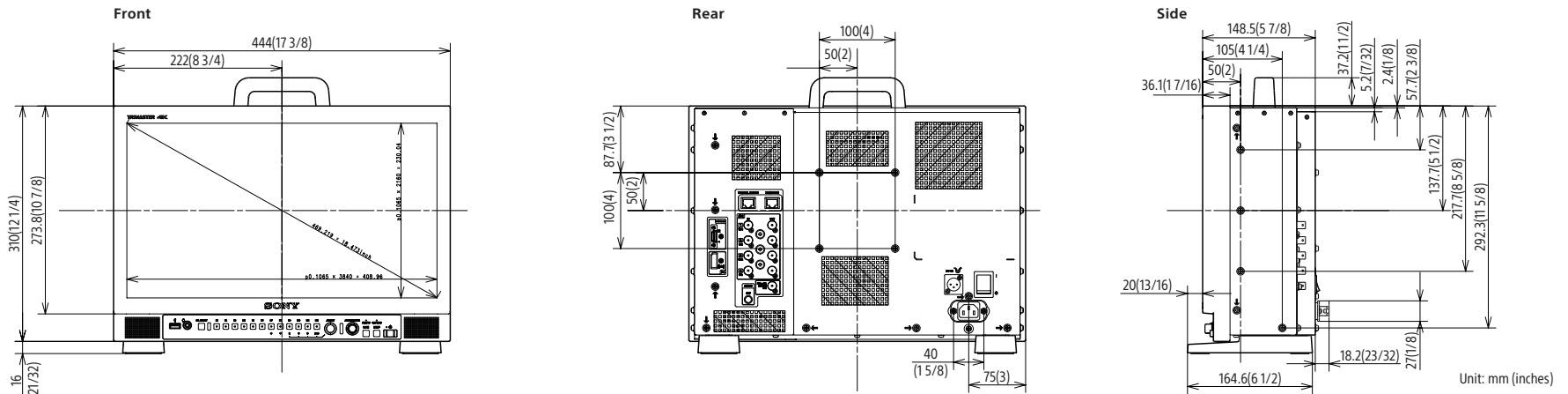
*⁴ Height without Handle is 331.5mm (13 1/8inches).

Dimensions

PVM-X2400



PVM-X1800



Unit: mm (inches)

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