SONY

PVM-X550

55-inch 4K TRIMASTER EL™ OLED high grade picture monitor

Overview

Optimized large 55-inch (diag.) screen for 4K color grading, with close color matching to the reference BVM-X300

The PVM-X550 55-inch* 4K OLED picture monitor offers a large 3840 x 2160 pixels high grade picture for critical monitoring performance. This high performance TRIMASTER EL™ OLED monitor provides professional quality black performance, color reproduction, quick pixel response and accurate signal processing. Quad view display allows individual settings for each display. In addition, the PVM-X550 features High Dynamic Range display and a wide color gamut supporting DCI-P3 and most of the ITU-R BT.2020 standard. The monitor's thin bezel edges and light weight make it ideal for wall mounting and as a companion client monitor to the BVM-X300 for color grading and quality control.

* 55-inch viewable area, measured diagonally.

High Brightness Mode

Reflecting increased demand for 4K and HDR picture evaluation, V2.0 firmware offers High Brightness Mode that delivers higher dynamic range and even more realistic color reproduction.

Input Setting

To improve monitor usability, V2.0 firmware offers a new Input Setting. User preset is put into Input Setting menu and the number of Input Settings is expanded from four to eight.

Shopping channels

Shopping channels require a unique screen layout to differentiate instantly between a product and its commercial data. The monitor allows two flexible area markers to be set anywhere on screen.

Quad view display

The PVM-X550 provides a quad view display, with individual settings of EOTF (SDR/HDR), color space, transfer matrix, color temperature, contrast, brightness, SDI/HDMI, and RGB/YCBCR for each display view.

High Dynamic Range

Offers unprecedented image reproduction: black is black, and peak brightness can be reproduced more realistically with colors that are typically saturated in a conventional standard dynamic range. EOTFs for S-Log3, S-Log2, SMPTE ST2084, S-Log3 (Live HDR), and ITU-R BT.2100 (HLG) are supported.

Supports DCI P3 and ITU-R BT.2020 color spaces

The PVM-X550 offers a wide color gamut supporting DCI-P3 and most of the ITU-R BT.2020 standard.* S-GAMUT3.cine and S-GAMUT3 are also supported.

* The PVM-X550 does not conform in full to the DCI-P3 or BT.2020 color space.

Multi-format capability

The PVM-X550 can display formats including 4K, 2K, UHD, and HD at various frame rates.

Features

High Brightness Mode*
HDR Peak Luminance is over 180% higher than firmware version 1.1. Accuracy of brightness and saturation is carefully controlled by the Sony-designed 12-bit engine for OLED, as used in BVM series and PVM-X550 monitors.
* Supported with V2.0

Flexible area markers*
Freely set up to two area markers on screen, with adjustable line color and thickness.
* Supported with V2.0

Time code function*
LTC and VITC time code can be displayed at the top or bottom of the picture.
* Supported with V2.0

High Dynamic Range display
In addition to the intrinsic high-contrast performance of the TRIMASTER EL™ OLED panel, the PVM-X550 provides High Dynamic Range display. This offers never-seen-before image reproduction — the black is black, and peak brightness can be reproduced more realistically with colors that are typically saturated in a conventional standard dynamic range. This mode can brilliantly express sparkling city lights and stars in the night sky.

Supports DCI P3 and ITU-R BT.2020 wide color spaces
The PVM-X550 supports industry-leading wide color gamuts, including DCI-P3 and ITU-R BT.2020 color spaces*. S-GAMUT3.cine and S-GAMUT3 color gamuts are also supported to achieve coherent cinematography production workflow with Sony's 4K cinematography cameras. A gamut marker is valuable for wide color video production. You can check what colors are outside of the ITU-R BT.709 or DCI-P3 in the ITU-R BT.2020.

* The PVM-X550 does not conform to DCI-P3 or the BT.2020 color space in full.

3G-SDI Quad-link up to 4096 x 2160/48p 50p 60p, YCbCr 4:2:2 10-bit
This picture monitor supports both 2 Sample Interleave (2SI) and Square Division signals. It also supports 3G/HD-SDI single link and dual link for HD signals, and also 3G-SDI dual link for 4K/30p, 25p and 24p.

Accurate black and color reproduction
A key benefit of TRIMASTER EL technology is its unique ability to turn each pixel completely off. TRIMASTER EL is capable of reproducing accurate black with each individual pixel, enabling users to evaluate images faithfully to the original signal.

Extremely wide viewing angle
Sony PVM-X550 provides a superior viewing angle performance compared with other flat panel reference monitors available on the market. This makes it easier to evaluate picture performance with a few viewers to see the same colors and contrast.

S-Log gamma, SMPTE ST 2084 and HLG support
The PVM-X550 supports conventional 2.2, 2.4, 2.6, and CRT gamma. In addition, HDR (High Dynamic Range) EOTF tables are provided for 2.4 (HDR), S-Log3 (HDR), S-Log2 (HDR), SMPTE ST.2084 (HDR), S-Log3 (Live HDR), and ITU-R BT.2100 (HLG).

Specifications

Picture Performance	
Panel	OLED panel

Picture Performance	
Picture size (diagonal)	1387.832 mm (54.6”)
Effective Picture size (H x V)	1209.6 x 680.4 mm
Resolution (H x V)	3840 x 2160 pixels
Aspect	16:9
Pixel efficiency	99,99%
Panel drive	10-bit
Viewing angle (panel specification)	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)
Color temperature	D55, D61, D65, D93, DCI*1, DCI XYZ, and user 1-5 (5,000 k to 10,000 k adjustable)
Standard luminance	100 cd/m^2 (100% white signal input)
Color space (color gamut)	ITU-R BT.2020*2, ITU-R BT.709, EBU, SMPTE-C, DCI-P3, PVM-X550 Native*3, S-Gamut/S-Gamut3, S-GAMUT3.cine
Transmission Matrix	ITU-R BT.2020 (Non-constant luminance is supported), ITU-R BT.709
EOTF	2.2, 2.4, 2.6, CRT, 2.4(HDR), S-Log3(HDR), S-Log2(HDR), SMPTE ST.2084(HDR), S-Log3(Live HDR), ITU-R BT.2100(HLG), RGB(SG1.2)

Input	
SDI	BNC x4 x2sets
Option	HDMI x1
Serial remote (LAN)	Ethernet (10BASE-T/100BASE-TX), RJ-45 (x1)

Output	
SDI	BNC x4 x2sets
Audio monitor*4	Stereo mini jack (x1)

General	
Power requirement	AC 100 V to 240 V, 50/60 Hz
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%

General	
Operating / storage / transport pressure	700 hPa to 1060 hPa
Mass	22.9kg(50lb 8oz)(With stand) 22.6kg(49lb 13oz)(Without stand)
Dimensions (W x H)	1241.6x737.2x205 mm (49x29x8 1/8inch)(With stand) 1241.6 x 718.4x 83.5 mm (49x28 3/8x3 3/8inch)mm (Without stand)
Supplied accessories	AC power cord (1), AC plug holder (1), CD-ROM (1), Before Using This Unit (Japanese, English 1), HDMI holder(1), Stands(2), Screws(8)

Notes	
*1	DCI: x=0.314 y=0.351
*2	The PVM-X550 does not support DCI-P3 and the ITU-R BT.2020 color space in full.
*3	The PVM-X550 individual chromaticity points. The widest color space setting of the signal is reproduced by the PVM-X550.

Related products

PMW-F55

Super 35mm 4K CMOS sensor compact CineAlta camera records HD/2K/4K on SxS memory plus 16-bit RAW 2K/4K output

PMW-F5

Super 35mm 4K CMOS sensor compact CineAlta camera records HD/2Kon SxS memory plus 16-bit RAW 2K/4K output

F65

Super 35mm 8K CMOS sensor SRMASTER camera

PMW-PZ1

4K/HD SxS memory player

MVS-8000X

4K, HD, 3G, SD Multi- Format Production Switcher Processor

BKM-17R

Monitor Control Unit

BVM-X300 V2

30-inch 4K TRIMASTER EL™ OLED critical reference monitor

BVM-E171

16.5-inch TRIMASTER EL™ OLED critical reference monitor with wide viewing angle supports 4K production

BVM-E251

24.5-inch TRIMASTER EL™ OLED critical reference monitor with wide viewing angle supports 4K production

HXC-FB80

Three 2/3-inch Exmor™ CMOS sensor HD color studio camera

Gallery