

PVM-L3200

32-inch Broadcast LCD Monitor



Multi-format Widescreen LCD Monitor

The PVM-L3200 is a 32-inch LCD monitor equipped with a customized WCG-CCFL (Wide Colour Gamut CCFL) backlight system designed for use in Broadcast applications. The image processing engine uses the same technology as the award-winning BVM-L TRIMASTER Series, ensuring the PVM-L3200 offers the superb picture performance and sophisticated features required by today's broadcast critical picture-monitoring applications.

The PVM-L3200 can also accept almost any type of video and PC signal, both analogue and digital. The video interface accepts analogue composite signals up to 3G SDI, as well as HDMI™ and DVI signals.

In addition, the PVM-L3200 extends the user-friendly approach of Sony's professional CRT monitors in terms of system configuration, installation, functionality, and operational convenience.

The PVM-L3200 is the ideal choice for the next level of digital broadcast systems that requires smooth migration from CRT to LCD, SD to HD, and/or interlaced to progressive.

Features

Customised Full HD Panel with 10-bit Driver

The PVM-L3200 monitor achieves both high resolution and stunning colour depth using a full 1920 x 1080 HD LCD panel and precise 10-bit driver.

High Quality I/P Conversion Technology

The PVM-L3200 monitor uses a sophisticated I/P conversion technique that keeps artefacts that are often seen in typical LCD monitors to a minimum such as edge jaggedness, conversion errors, etc.

Low video delay

The PVM-L3200 display engine provides a picture delay that is less than one field.

High Accuracy Display Engine

The PVM-L3200 monitor uses a 12-bit output display engine, which allows images to be reproduced with

high precision for accurate evaluation and manipulation.

Panel Calibration

Every PVM-L3200 monitor is carefully calibrated at the factory on an individual basis, providing a high level of accuracy and stability for characteristics such as gamma and uniformity.

Colour Feedback System

Using a colour feedback system, the PVM-L3200 monitor achieves the stability required for Broadcast critical viewing applications.

Input Versatility

The PVM-L3200 monitor can accept almost any SD or HD video format, both analogue and digital, plus PC signals from VGA to Full HD (1920 x 1080). In addition to a DVI-D and an HDMI interface equipped as standard, four option board slots are offered to configure this monitor according to different user needs.

Four Slots for Optional Video Input Decoders

The monitor can accept up to four optional video input boards simultaneously. Available formats include analogue, composite, Y/C, components, RGB and digital 3G/HD/SD SDI.

Interlaced Display Mode

Faithfully reproduces interlaced signals, emulating CRT monitors.

Dual Image Processing

Image Side by Side mode provides users with enhanced operational flexibility.

New Pixel Zoom Mode

Allows picture magnification up to 800% without scaling.

Black Frame Insertion Mode

Dramatically reduces motion blur – a problem common to many LCD monitors.

Black Detail Mode

This mode allows improving the black level reproduction when viewing images with low light contents.

Separate Control unit with memory stick slot

A separate control unit is available for the PVM-L3200. It is equipped with a Memory Stick socket enables users to download and save all monitor set-ups such as input channel configuration, control preset adjustments, white balance settings and maintenance parameters.

Centralised Monitor-Wall Control

Multiple monitors can be easily managed by a single control unit via a serial RJ45 Ethernet connector.

Benefits**Suitable for a Wide Range of High-End Applications**

Ideal for BROADCAST (studio, engineering, etc.) and POST PRODUCTION (Editing, VFX, CGI. etc) applications

Picture Quality Rivalling Top-Flight CRT Monitors

The PVM-L3200 is capable of displaying High Definition in native mode 1920x1080 pixels. Equipped with a 10-bit customised LCD panel, a precision backlight for extended colour gamut and a Sony display engine providing 12-bit output processing for precision imaging, the PVM-L3200 is the ideal choice for high quality and critical viewing requirements.

Superb Colour Accuracy

The innovative Colour Management System ensures consistent and repeatable colours to match the international ITU-709, SMPTE-C and EBU colour space standards

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Outstanding Greyscale and Colour Depth Provide Lifelike Picture Quality

Superb precision in picture reproduction is achieved through the 10-bit LCD panel drivers and 12-bit output signal processing.

Consistently Optimal Picture Performance

Less 'drift' than CRT displays, with an absence of picture distortions such as convergence, geometry,

linearity and focus variation. The PVM-L3200 is also immune to magnetic field interference.

Faithful Reproduction of Interlaced Pictures

Capable of reproducing interlaced video images to the same standard as CRT monitors

High Quality Motion Display

Black Frame Insertion Mode dramatically reduces motion blur.

Exemplary Picture Consistency

Consistent and repeatable chroma and greyscale performance ensures efficient matching between monitors.

Productivity Boost

New dual image processing including Picture Side by Side mode and a new Pixel Zoom function allow quick evaluation and comparison of two input sources.

Exceptionally Versatile

Due to its broad range of inputs and multi-format signal capabilities, the PVM-L3200 is equally suited to AV or IT-based applications, allowing you the freedom to operate in whichever format you choose from the entry HDMI to the latest 3G SDI

Future Proof

A slot structure allows accommodating various optional input boards and the ability to accept future boards as well to ensure that the PVM-L3200 remains current.

Easier to Install and Accommodate than CRT

The PVM-L3200 has benefits over CRT such as space saving, less weight and heat generated.

Air Conditioning Requirements lower than with CRT

LCD monitors generate less heat than CRT reducing the air conditioning requirements when used in a confined environment

Easy Maintenance

Routine convergence, focus, geometry and linearity adjustments are no more necessary.

Lower Total Cost of Ownership than CRT

Long operational life / high reliability.
Low energy bills.
Low routine maintenance cost
Reduced environmental disposal costs.

Technical Specifications

PICTURE PERFORMANCE	
Type	a-Si TFT Active Matrix LCD
Picture Size (Viewable Area)	H x V: 698.4 x 392.85 mm (27 1/2 x 15 1/2 inches) Diagonal: 801.3 mm (31 5/8 inches)
Aspect Ratio	16:9
Resolution (H x V)	1920 x 1080 pixels
Pixel Efficiency	99.99%
Backlight	Wide Colour Gamut CCFL
Preset Brightness	100 cd/m ² (when 100 % white signal is input)
Panel drive	RGB 10 bit
Panel frame rate	96/100/120 Hz
Viewing angle	85°/85°/85°/85° (typical) (up/down/left/right contrast > 10:1)

INPUT/OUTPUT	
Video Input/Output	Four (4) slots
PC Input	DVI-D (x1) (HDCP correspondence)
HDMI	HDMI (x1) (HDCP correspondence, Deep colour correspondence)
LAN	Ethernet (10 BASE-T/100 BASE-TX), RJ-45 (x1)
Parallel Remote	D-sub 9-pin (female) (x1)
Option A	Mini-DIN 8-pin (female) (x1)
Option B	USB (Type A) (x1) (used for future expansion)
DC 5V Out	Circle 4-pin (female) (x1)

GENERAL	
Operating Humidity	0 % to 90 % (no condensation)
Operating Pressure	700 hPa to 1060 hPa
Storage and Trans. Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Storage and Trans. Humidity	0 % to 90 %
Storage and Trans. Pressure	700 hPa to 1060 hPa
Dimensions (W x H x D)	794.0 x 556.7 x 243.1 mm (31 3/8 x 22 x 9 5/8 inches)
Mass	Approx. 27 kg (59 lb 8 oz)
Power Requirements	100 V to 240 V AC, 1.9 A to 0.8 A, 50/60 Hz
Power consumption	Approx. 180 W (at maximum load, the luminance compensation due to the aged deterioration of the LED is included.)
Operating Temperature	0 °C to 35 °C (32 °F to 95 °F) (Recommended operation temperature 20 °C to 30 °C (68 °F to 86 °F))

Supplied Accessories	
AC Power cord	
AC Plug holder	
Operation manual	
CD ROM (1)	
Connection cable for colour temperature adjustment	
Using the CD ROM manual (1)	

Accessories

Control Units



BKM-16R

Monitor Control Unit

Monitors



BKM-220D

4:2:2 Sdi Input Adaptor



BKM-243HS

HDSDI/4:2:2 SDI Input Adaptor

Option Boards and Cables



BKM-227W

NTSC / PAL input adaptor for LMD monitors



BKM-250TG

3G/HD/SD-SDI Input Adaptor



BKM-229X

Analogue component input adaptor for LMD monitors

Other



SMF-700

Monitor Interface Cable for BVM-L Series