

MULTI - FORMAT LCD MONITOR

PRM-434A

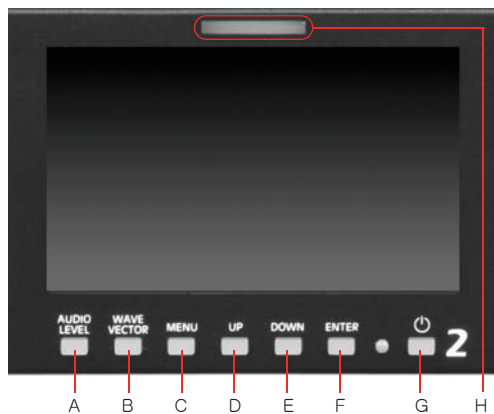
Quad 4.3" LCD 2RU Multi-Channel Rack Monitor



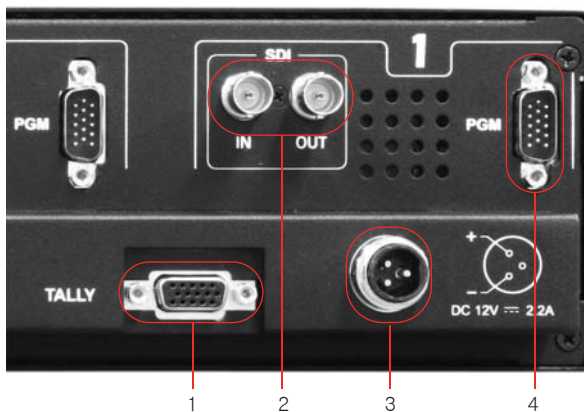
The compact PRM-434A packs four 4.3" 800x480 LED backlit LCD panels into a 2RU rack unit designed for SDI signal monitoring. The front panel allows selection of embedded audio level, Waveform (Y Cb Cr)/Vector scope, and the PRM full feature/setup menu. I/O includes SDI in/out, serial tally port, and serial firmware upgrade port.

►► Product Highlights

- Multi-Format Support
- (480i, 576i, 720P, 1080i, 1080P, 1080Psf, 2K)
- 4 High Resolution (800x480) 4.3-inch 16.7 MegaPixel Wide Screens
- Small Footprint occupies only 2RU of a standard EIA 19 inch rack
- Remote Control (Tally control)
- Closed Caption : CEA-608/708
- AFD
- H/V Delay
- Blue Only & Monochrome
- Wide Variety of Markers & Safety Areas including user defined Markers
- HD/SD-SDI Input & Active Loop Through
- SDI Input Format Auto Detect
- Source ID Function (User Defined in OSD Function)
- Embedded Audio Level Meter (16 ch) - Vertical/Horizontal
- Timecode Display
- Selectable Full & Small Size, WaveForm (Y Cb Cr)/Vector Scope (SDI only)



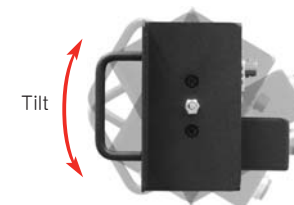
- A – AUDIO LEVEL
- B – WAVE/VECTOR
- C – MENU
- D – UP
- E – DOWN
- F – ENTER
- G – POWER
- H – TALLY



- 1 – TALLY
- 2 – SDI-IN/OUT
- 3 – DC12V POWER
- 4 – PGM

▶▶ Connector Panel

Dimensions (W x H x D) : 480x87x80 (mm)/18.8x3.425x3.149 (inch)
2RU, Weight : 2.5 kg/5.5 lbs.



▶▶ Product Specifications

Number of Screens		4	
Input (1 Screen)	1 x BNC	SDI Channel Input	
Output (1 Screen)	1 x BNC	SDI Channel (Active Through Out)	
Input Signal	HD-SDI	1.485Gbps	
	SD-SDI	270Mbps	
SDI Input Signal Formats	SMPTE-274	1080i (60/59.94/50)	
	SMPTE-296M	1080P (30/29.97/25/24/24sF/23.98/23.98sF)	
	SMPTE-260M	720P (23.98/24/25/29.97/30/50/59.94/60)	
	SMPTE-125M	1035i (60/59.94)	
	ITU-R.BT.656	480i (59.94)	
	2K Format	576i (50)	
			2048 x 1080 (23.98psf/24psf/23.98p/24p)
LCD	Size	4.3 inch / 93 x 55.8 mm	
	Resolution	800 x 480 (15 : 9)	
	Pixel Pitch	0.116 (H) x 0.116 (V) mm	
	Color	16.7M (True), 24bit	
	Viewing Angle		H : 130 degrees
			V : 110 degrees
	Luminance of White	200cd/m ² (center)	
Contrast	300 : 1		
Power		12V DC / 2.6A	
Power Consumption (Approx.)		32 Watts	
Operating Temperature		0°C to 40°C (32°F to 104°F)	
Storage Temperature		-30°C to 50°C (-22°F to 122°F)	
Accessories		DC Power Adapter	
Optional Accessories		Serial/RS422 Adapter	

* Specifications may be changed without notice.

Space Utilization & Appearance

▶▶ True High Definition Performance

Utilizing high resolution 800x480, 960x540 (PRM-902Q & PRM-207Q only) 8-Bit LCD panels, PRM series monitors display accurate high Definition color in every size. This results in superior color reproduction that cannot be found in typical LCD rack monitors.

Most small-format LCD monitors use 6-Bit dithered panels. Dithering is an electronic “optical illusion” in which nearby pixels display slightly varying shades or colors to trick the human eye into perceiving the desired color.

In reality, a true 6-bit LCD is capable of reproducing only 262,144 of the 16.7 million colors that are visible on the true high-definition PRM series 8-bit LCDs.

Other Monitors (6bit)

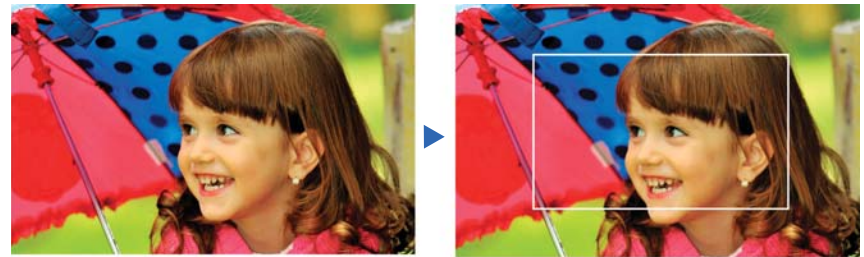


PRM Monitors (8bit)



▶▶ 1:1 Pixel Mapping Mode

The PRM series high-resolution 800x480 LCD panel features a 1:1 pixel mapping mode that allows users to view the native HD resolution of all video sources.



1:1 Pixel Mapping Mode

▶▶ Complete Multi-Format Support

The PRM series supports all HD/SD-SDI signal formats* including the DCI 2K digital motion picture format at 23.98psf/24psf/23.98p/24p.

* Including: SMPTE-274 (1080p 30/29.97/25/24/24sF/23.98/23.98sF and 1080i 60/59.94/50), SMPTE-296M (720p 23.98/24/25/29.97/30/50/59.94/60), SMPTE-260M (1035i 60/59.94), ITU-R.BT.656 (576i 50) and SMPTE-125M (480i 59.94) standards.

►► Precision Waveform & Vector Scope

All PRM series monitors (except PRM-502LE & PRM-207Q) feature the most precise internal Waveform (Y Cb Cr) and Vector Scope available in a rack monitor system. All PRM series monitors features full screen and PIP Waveform/Vector Scope monitoring.

The Waveform/Vector Scope can also be viewed as a semi-transparent overlay by using the Transparency option.

Waveform (Y Cb Cr)



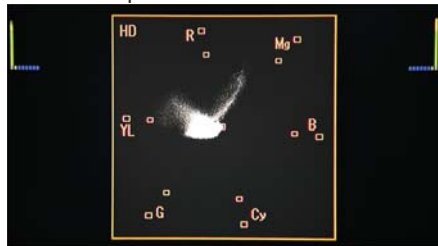
Waveform Full Size



Vector Scope



Vector Scope Full Size



Waveform/Vector Scope option in both full screen and PIP transparency mode

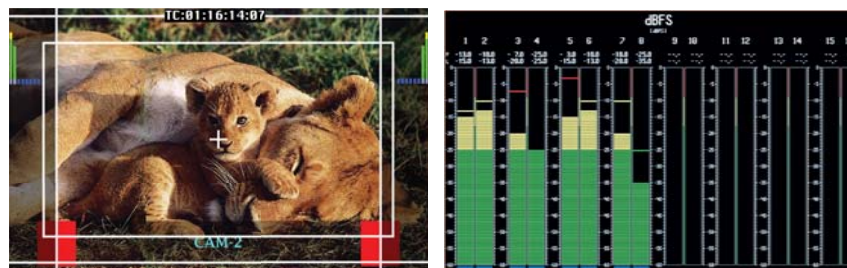
►► Closed Caption 608/708

CC 608/708 closed caption standards are supported in all PRM series monitors (except PRM-502LE & PRM-207Q).

►► Active Format Description - AFD

AFD is supported allowing for automatic display at proper aspect ratio in all PRM series (except PRM-502LE & PRM-207Q).

Additional features (vary by model) include RJ11 remote control, tally, H/V delay, blue only/monochrome, selectable LTC or VITC time code and on-screen source display, 16 channel embedded audio metering, various markers (including user defined) and safety area modes, SDI input auto detection, and user-friendly menu interface.



Audio Level Meter / Marker / Source ID display / Timecode display / UMD (Under Monitor Display)