

PBM-4K (HDR) Series

Screen Sizes: 17" (17" Dual) 24" (24" Dual) 32" 43" 49" 55" 65" 86"

plura
Re-Imagine Beyond Technology™

THE NEW PBM-4K COMPREHENSIVE AND POWERFUL SERIES



PBM-224-4K



PBM-232-4K



PBM-243-4K



PBM-255-4K



PBM-286-4K



PBM-217-4K-Dual



PBM-224-4K-Dual



PBM-4K Series is a complete portfolio of 4K monitors in alignment with increased industry demand. Available in multiple sizes from 17 up to 86 inches, the Plura PBM-4K series bring the exceptional built-in feature set Plura monitors are known for, maintaining quality and performance to give production facilities an edge in Ultra HD monitoring.

The PBM-4K series comes in multiple sizes 17", 17" Dual, 24", 24" Dual, 32", 43", 49", 55", 65" & 86", all sizes offer the extensive and well-known Plura prominent features. PBM-4K Series supports up to 4096 x 2160 resolutions, focuses on delivering the highly detailed, accurate color representation and stunning picture consistency that high-end production applications require.

The PBM-4K series offers Ember+ compliant control system capabilities, i.e. can be controlled by Lawo-VSM, BFE-Core or any other Ember+ compliant control system.

Ember+ Support



LAN/WAN

SDR

HDR



The PBM-4K series offers HDR Display capabilities supporting PQ (ST-2084) & HLG standards.

PBM-4K Series - Product Highlights:

- 1 x HDMI 2.0 HDCP 2.2
- 2 x 12G, 6G, 3G, 1.5G
- 1 x SFP Slot supporting Multiple I/O Standards
- Quad 3G SQ and 2SI
- 10 bit panel color depth
- Supports up to 4096 x 2160 resolutions
- HDR (High Dynamic Range) capabilities
- PQ (SMPTE ST 2084) & HLG (Hybrid Log Gamma)
- Ember+ Compliant, Ethernet & RS232 Remote Control
- RGB 12 Bit Digital Signal Processing
- 178° Viewing Angle Display
- Gamma Selectable (0.8 – 3.0)
- Color Temperature – User, VAR, Adjustable (11000K TO 3200K)
- (ICAC) - Plura Intelligent Connection for Alignment & Calibration
- 3D LUT (ITU-R BT 2020, Native, BT.709, SMPTE-C, EBU, NTSC, D-Cinema)
- Display Advanced Waveform & Vector Scope simultaneously with line select
- Various and User defined Markers Display Safe Area in HD and SD
- Programmable 3 User Front Pushbutton Controls & GPI
- Closed Caption (608/708) – North American Market
- Teletext 801 & Subtitle OP-47- Australia & N.Z. Market
- Cutting edge De-interlacing and Scaling Technology
- Fast Response Time for high motion video
- Internal Monitor Display (IMD)
- Underscan / Overscan / Normal / Zoom
- Pixel to Pixel Mode, Tally, DC Operation
- False Color and Peaking Filter / Focus Assist
- Video Range test with adjustable Y & C values
- Display LTC & DVITC time code with line select
- Embedded Audio Input, Digital Audio Decoding
- Internal Pattern Generator and Wall Control System

Please note that the technical details shown here are provisional specifications (as of April 2020)
The information is subject to change without notice.

PBM-4K (HDR) PROMINENT FEATURES

Plura PBM-4K series brings the exceptional built in feature set Plura monitors are known for, maintaining quality and performance to give broadcast & production facilities an edge in Ultra HD monitoring.

Gamma Adjustment



PBM-4K series provides different Gamma adjustment settings. The monitor is capable to select Gamma setting between (0.8 – 3.0)

Waveform / Vector



Display Advanced Waveform & Vector Scope simultaneously with line select

Markers



Various and User defined Markers Display, Safe area in HD and SD.

Video Range



This function displays Luma (Y) & Chroma (C) out of range levels outside the user defined range.

Focus Assist



A focus-assist feature is important for focusing cameras.

False color

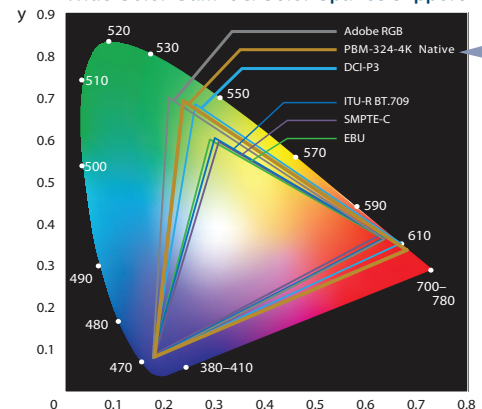


False color function refers to a group of color rendering methods used to display images in color which were recorded in the visible or non-visible parts of the electro-magnetic spectrum. A false-color image is an image that illustrates an object in colors that differ from those a photograph (a true color image) would show.

Wide Color Gamut & Color Spaces support ►

PBM-4K built with intelligent connections for calibration alignment, adjustable colorimetry and gamma correction capabilities. The PBM-4K series can reproduce many color spaces (ITU-R BT 2020, Native, ITU-R BT.709, SMPTE-C, EBU, NTSC, D-Cinema). The Plura PBM-4K Series will feature the traditional software- redefine feature set built into most Plura monitors, including intelligent connections for calibration alignment, adjustable colorimetry, gamma correction and audio monitoring - all accessible from an intuitive menu offering smooth navigation. Using Plura's unique ICAC tool, production staff can quickly and automatically calibrate multiple color-related elements across the entire monitor network over IP. This ensures that the PBM-4K Series is quickly recalibrated to its reference standard, returning optimal brightness and color consistency for demanding 4K workflows.

Wide Color Gamut & Color Spaces support



PBM-4K Series Specifications

The PBM-4K Series comes in multiple sizes 17", 17" Dual, 24", 24" Dual, 32", 43", 49" 55", 65" & 86", all sizes offer the extensive and well know Plura prominent features. The PBM-4K Series will support SMPTE 2082 and other earlier industry standards, 12G/Quad 3G SQ/2SI/3G/HD-SDI BNC Jack inputs with active loop, 1x SFP slot to support multiple IP & Fiber I/O standards, 1 x HDMI 2.0, in addition to all other legacy I/O.

PBM-4K will suit any studio or mobile production workflow, and will be specially valuable to all customers that lack affordable options for a wide range size 4K monitor solutions with the flexibility to work across mulitple formats. The series also adopts the exceptionally slim form factor that Plura customers enjoy, ensuring that even the largest 4K monitors in the portfolio demand a modest slice of real estate.

FUNCTION		PBM-217-4K	PBM-224-4K	PBM-324-4K	PBM-232-4K	PBM-332-4K
INPUT	SDI Input	4EA, Serial Digital, 12G/Quad 3G SQ/2SI/3G/HD-SDI BNC Jack				
	SFP Port	1EA, SFP Optical and/or Electrical				
	HDMI	1EA, HDMI, 19 Pin Female				
OUTPUT	SDI Output	4EA, Serial Digital, 12G/Quad 3G SQ/2SI/3G/HD-SDI BNC Jack				
DIGITAL INPUT FORMAT	SMPTE- ST 2082M	3840x2160 (23.98/24/25/29.97/30/50/59.94/60p)				
	SMPTE 428.1M	2048x1080P (24/25)				
	SMPTE-425M AB(3G)	1920x1080P (60/59.94/50/30/29.97/25/24/23.98/30sf/29.97sF/25sF/24sF/23.98sF) / 1080i (60/59.94/50)				
	SMPTE-260M	1920x1035i (60/59.94)				
	SMPTE-274M/292M	1920x1035i (60/59.94)				
		1920x1080P (30/29.97/25/24/24sF/33.98/23.98sF)				
	SMPTE 296M	1280x720p (60/59.94/50)				
	SFP	12G/6G/3G/1.5G				
	UHD HDMI 2.0	480P/720P/1080P/2160P				
AUDIO INPUT	SDI Audio Input	Embedded HD/SD-SDI Audio				
	HDMI Audio Input	Embedded Audio				
AUDIO OUTPUT	Speaker Output	Internal Speaker (Stereo) 3W + 3W				
	Ear-phone Output	1EA, L/R Stereo, 3.5mm Pin Jack				
I/O PORT	GPI	RJ-45 8 Pin (Programmable for General Purpose Input)				
	ETHERNET	Ethernet System Control Ember+ Compliant				
	USB	Firmware Upgrade				
	RS232	D-sub 9 Pin Female/Firmware Upgrade				
LCD	Size	17" Diagonal	24" Diagonal	24" Diagonal	32" Diagonal	32" Diagonal
	Aspect Ratio	16 : 9			17 : 9	
	Resolution	3840 x 2160				
	Display Color	1.07 Billion Colors				
	Brightness	350cd/m2	350cd/m2	1000cd/m2	350cd/m2	350cd/m2
	Contrast Ratio	1000:1 (Typical)	1000:1 (Typical)	2500:1 (Typical)	1300:1 (Typical)	1300:1 (Typical)
	Response Time	Tr=7ms / Tf=7ms	Tr=7ms / Tf=7ms	Tr=7ms / Tf=7ms	Tr=14ms / Tf=14ms	Tr=14ms / Tf=14ms
	Viewing Angle (deg)	Horizontal: 178 (Typ.) Vertical 178 (Typ.)				
POWER REQUIREMENTS		AC 100V ~ 240 V (60/50 Hz)				
POWER CONSUMPTION		0.65A-0.3A (65W)	1.0A-0.5A (100W)	1.0A-0.5A (100W)	1.4A-0.6A (140W)	1.4A-0.6A (140W)
OPERATING TEMPERATURE		0°C - 40°C (32° ~ 104°F)				
OPERATING HUMIDITY		10% RH ~ 85%RH (Non Condensed)				
STORAGE TEMPERATURE		-10°C - 80°C (14° ~ 176°F)				
STORAGE HUMIDITY		10% RH ~ 85%RH (Non Condensed)				
WEIGHT (w/o stand & packing)		4.50 Kg - 10.0 lbs	9.9 Kg - 22.0 lbs	9.9 Kg - 22.0 lbs	16.6 Kg- 30 lbs	15 Kg - 33 lbs
DIMENSION (W*H*D*) w/o Box & Stand		450 X 310 X 75.2 mm	561 X 384 X 81.7 mm	561 X 384 X 81.7 mm	737 x 461 x 70 mm	737 x 416 x 79.9 mm
		17.7 x 12.2 x 2.96 inch	22.0 X 15.1 x 3.2 inch	22.0 X 15.1 x 3.2 inch	29.0 x 18.1 x 2.7 inch	29.0 x 16.37 x 3.15 Inch
PACKAGING DIMENSION		584.2 x 482.6 x 254.0 mm	600 X 523 X 220 mm	600 X 523 X 220 mm	932 x 630 x 272 mm	932 x 630 x 272 mm
		23 x 19 x 10 inch	26 X 20.6 X 8.7 inch	26 X 20.6 X 8.7 inch	36.69 x 24.8 x 10.71 Inch	36.69 x 24.8 x 10.71 Inch
ACCESSORY		Power Cord				
OPTIONS		Rack Mount / Wall Mount			Wall Mount	

Please note that the technical details shown here are provisional specifications (as of Apr 2020) The information is subject to change without notice.

Connectivity



PBM-4K Series Specifications

FUNCTION		PBM-243-4K	PBM-249-4K	PBM-255-4K	PBM-265-4K	PBM-286-4K
INPUT	SDI Input	4EA, Serial Digital, 12G/Quad 3G SQ/2SI/3G/HD-SDI BNC Jack				
	SFP Port	1EA, SFP Optical and/or Electrical				
	HDMI	1EA, HDMI, 19 Pin Female				
OUTPUT	SDI Output	4EA, Serial Digital, 12G/Quad 3G SQ/2SI/3G/HD-SDI BNC Jack				
DIGITAL INPUT FORMAT	SMPTE- ST 2082M	3840x2160 (23.98/24/25/29.97/30/50/59.94/60p)				
	SMPTE 428.1M	2048x1080P (24/25)				
	SMPTE-425M AB(3G)	1920x1080P (60/59.94/50/30/29.97/25/24/23.98/30sf/29.97sf/25sf/24sf/23.98sf) /1080i (60/59.94/50)				
	SMPTE-260M	1920x1035i (60/59.94)				
	SMPTE-274M /292M	1920x1080i (60/59.94/50)				
		1920x1080P (30/29.97/25/24/24sf/33.98/23.98sf)				
	SMPTE 296M	1280x720P (60/59.94/50)				
	SFP	12G/6G/3G/1.5G				
	UHD HDMI 2.0	480P/720P/1080P/2160P				
AUDIO INPUT	SDI Audio Input	Embedded HD/SD-SDI Audio				
	HDMI Audio Input	Embedded Audio				
AUDIO OUTPUT	Speaker Output	Internal Speaker (Stereo) 3W + 3W				
	Ear-phone Output	1EA, L/R Stereo, 3.5mm Pin Jack				
I/O PORT	GPI	RJ-45 8 Pin (Programmable for General Purpose Input)				
	ETHERNET	Ethernet System Control Ember+ Compliant				
	USB	Firmware Upgrade				
	RS232	D-sub 9 Pin Female /Firmware Upgrade				
LCD	Size	43" Diagonal	49" Diagonal	55" Diagonal	65" Diagonal	86" Diagonal
	Aspect Ratio	16 : 9				
	Resolution	3840 x 2160				
	Display Color	1.07 Billion Colors				
	Brightness	350cd/m2	350cd/m2	500cd/m2	500cd/m2	500cd/m2
	Contrast Ratio	1000:1 (Typical)	1000:1 (Typical)	1100:1 (Typical)	1000:1 (Typical)	1200:1 (Typical)
	Response Time	Tr=6ms / Tf=6ms	Tr=6ms / Tf=6ms	Tr=8ms / Tf=8ms	Tr=8ms / Tf=8ms	Tr=8ms / Tf=8ms
	Viewing Angle (deg)	Horizontal: 178 (Typ.) Vertical 178 (Typ.)				
POWER REQUIREMENTS		AC 100V ~ 240 V (60/50 Hz)				
POWER CONSUMPTION		2.2A-1.1A(230W)	2.2A-1.1A(230W)	2.2A-1.1A(230W)	2.3A-1.2A(230W)	3.33A-1.8A(400W)
OPERATING TEMPERATURE		0°C - 40° C (32°~104°F)				
OPERATING HUMIDITY		10% RH ~ 85%RH (Non Condensed)				
STORAGE TEMPERATURE		-10°C - 80° C (14°~176°F)				
STORAGE HUMIDITY		10% RH ~ 85%RH (Non Condensed)				
WEIGHT (w/o stand & packing)		20.4 Kg- 45.0 lbs	20.4 Kg- 45.0 lbs	30.0 Kg- 66 lbs	40.0 Kg- 88.1 lbs	95 Kg- 210 lbs
DIMENSION (W**H**D*) w/o Box & Stand		979 x 638 x 102 mm	1109 x 664 x 74.2 mm	1245 x 721 x 76 mm	1477 x 857 x 76.3 mm	1954 x 1125 x 80 mm
		38.54 x 25.11 x 4 Inch	43.6 x 25.3 x 2.9 Inch	49 x 28.4 x 3 Inch	58.1 x 33.7 x 3.0 Inch	76.9 x 44.29 x 3.14 Inch
PACKAGING DIMENSION		1250 x 805 x 295 mm	1250 x 805 x 295 mm	1475 x 975 x 305 mm	1900 x 1200 x 320 mm	2300 x 1450 x 300 mm
		49.2 x 31.7 x 11.6 Inch	49.2 x 31.7 x 11.6 Inch	58.0 x 38.25 x 12.0 Inch	74.8 x 47.24 x 12.59 Inch	90.5 x 57 x 11.8 Inch
ACCESSORY		Power Cord				
OPTIONS		Wall Mount				

Please note that the technical details shown here are provisional specifications (as of Apr 2020) The information is subject to change without notice.

Connectivity



www.plurainc.com

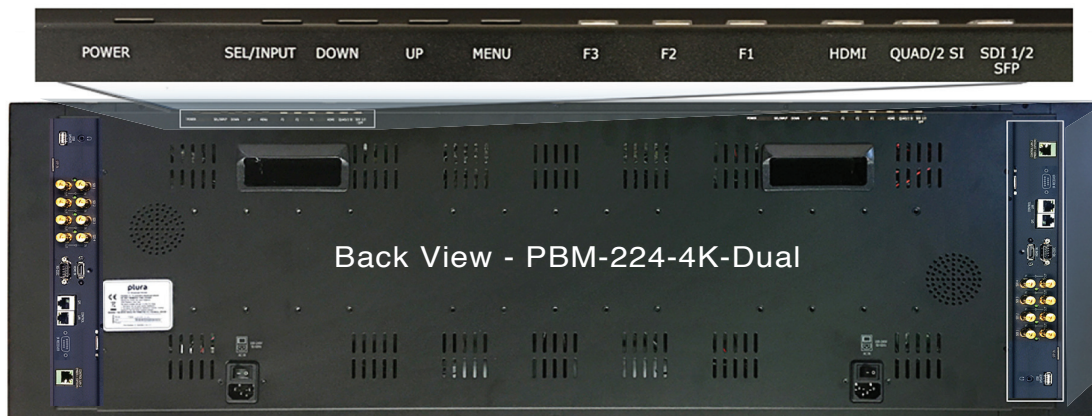
U.S.A. • Germany • U.A.E. • S. Korea

PBM-4K Series Specifications

FUNCTION		PBM-217-4K-DUAL	PBM-224-4K-DUAL
INPUT	SDI Input	2x 4EA, Serial Digital, 12G/Quad 3G SQ/2SI/3G/HD-SDI BNC jack	
	SFP Port	2x 1EA, SFP Optical and/or Electrical	
	HDMI	2x 1EA, HDMI, 19 Pin Female	
OUTPUT	SDI Output	2x 4EA, Serial Digital, 12G/Quad 3G SQ/2SI/3G/HD-SDI BNC jack	
DIGITAL INPUT FORMAT	SMPTE- ST 2082M	3840x2160 (23.98/24/25/29.97/30/50/59.94/60p)	
	SMPTE 428.1M	2048x1080P (24/25)	
	SMPTE-425M AB (3G)	1920x1080P (60/59.94/50/30/29.97/25/24/23.98/30st/29.97sF/25sF/24sF/23.98sF) / 1080i (60/59.94/50)	
	SMPTE-260M	1920x1035i(60/59.94)	
	SMPTE-274M/292M	1920x1080i (60/59.94/50)	
		1920x1080P (30/29.97/25/24/24sF/33.98/23.98sF)	
	SMPTE 296M	1280x720P (60/59.94/50)	
	SFP	12G/6G/3G/1.5G	
	UHD HDMI 2.0	480P/720P/1080P/2160P	
AUDIO INPUT	SDI Audio Input	Embedded HD/SD-SDI Audio	
	HDMI Audio Input	Embedded Audio	
AUDIO OUTPUT	Speaker Output	2x Internal Speaker (Stereo) 3W+3W	
	Ear-phone Output	2x 1EA, L/R Stereo, 3.5mm Pin Jack	
I/O PORT	GPI	2x RJ-45 8 Pin (Programmable for General Purpose Input)	
	ETHERNET	2X Ethernet System Control Ember+ Compliant	
	USB	2x Firmware Upgrade	
	RS232	2x D-sub 9 Pin Female/Firmware Upgrade	
LCD	Size	2x 17" Diagonal	2x 24" Diagonal
	Aspect Ratio	16 : 9	
	Resolution	3840 x 2160	
	Display Color	1.07 Billion Colors	
	Brightness	350cd/m2	1000cd/m2
	Contrast Ratio	1000:1 (Typical)	2500:1 (Typical)
	Response Time	Tr=7ms/Tf=7ms	Tr=7ms/Tf=7ms
	Viewing Angle (deg)	Horizontal: 178 (Typ.) Vertical 178 (Typ.)	
POWER REQUIREMENTS		AC 100V ~ 240 V (60/50 Hz)	
POWER CONSUMPTION		0.65A-0.34A (65W)	1.0A-0.5A (100W)
OPERATING TEMPERATURE		0°C-40° C (32° ~ 104°F)	
OPERATING HUMIDITY		10% RH-85%RH (Non Condensed)	
STORAGE TEMPERATURE		-10°C-80° C (14° ~ 176°F)	
STORAGE HUMIDITY		10% RH-85%RH (Non Condensed)	
WEIGHT (w/o stand & packing)		20 lbs (9.07 kg)	44 lbs (19.95 kg)
DIMENSION (W*H*D*) w/o Box & Stand		863.6 x 66.0 x 259.0 mm	1092.2 x 66.0 x 335.28 mm
		34 x 2.6 x 10.2 inch	43.0 x 2.6 x 13.2 inch
PACKAGING DIMENSION		1244.6 x 203.2 x 482.6 mm	1244.6 x 203.2 x 482.6 mm
		49 x 8 x 19 inch	49 x 8 x 19 inch
ACCESSORY		Power Cord	
OPTIONS		Wall Mount	

Please note that the technical details shown here are provisional specifications (as of Apr. 2020) The information is subject to change without notice.

Connectivity



www.plurainc.com

U.S.A. • Germany • U.A.E. • S.Korea