RHDM-2301P

23 inch reference monitor for film and post-production



Barco's RHDM-2301 brings LCD technology of the highest professional standards, including:

- a true 10-bit, 120Hz flat panel
- scanning LED backlight technology
- embedded calibration and stabilization technology
- and unique 48-bit color processing.

All these features ensure a color performance and image quality level that is unseen in broadcast and post-production environments.

Barco's RHDM-2301P is an ideal reference for a wide range of film andpost-production applications:

- on-set and dailies viewing
- film scanning and restoration
- various digital intermediate (DI) processes such as color grading, visual effects (VFX), computer generated images (CGI) and digital film mastering

post-production of trailers, commercials, music etc.

Film acquisition

The RHDM-2301P is the perfect reference monitor for Directors of Photography



RHDM-2301P Barco

The RHDM-2301P is the perfect reference monitor for Directors of Photography (DoP) on set during film acquisition, as well as for dailies processing. The Grade-1 color accuracy and stability means that two RHDM-2310P monitors will show identical pictures even on two distant sets.

Film scanning and telecine

Film scanners and telecine specialists will benefit from the RHDM-2301P's high contrast range, black detail and stabilized wide color gamut capabilities.

Color grading

The RHDM-2301P offers color grading specialists a high contrast and excellent black detail, a smooth picture without banding artifacts and accurate, CRT-like colors. With the RHDM-2301P, the film grain and other dark details are shown just as they are -not hidden or extremely accentuated.

Visual effects

Scanning LED backlight technology, a 120Hz LCD panel and native interlace mode make the RHDM-2301P an excellent reference for motion handling. The monitor also offers good de-interlace and inter-frame handling.

DVD and Blu-ray mastering

The RHDM-2301P is a reliable reference to validate a digital intermediate and its derivatives (DVD, Blu-ray, digital cinema masters etc.)

roduct specifications RHDM-2301P					
General specifications					
Display	 Active area: 22.5" (57cm) diagonal Resolution: 1920x1200 Contrast: typical 800:1 (min 700:1) Panel drive: 96-120Hz, 10 bit native, 12 bit dithered 				
Optical	 Wide gamut LED backlight Selectable white points: D55 - D65 - D93 [Factory: D65] Selectable gamma 2-2.6 [Factory: 2.35 - EBU/SMPTE compliant] Custom R, G and B primaries Compliant with EBU, SMPTE and ITU BT.709 primaries Deep level, 3D LUT factory calibration Thermal sensor circuit for LED stabilization with temperature Embedded spectrometer for overall color stabilization over time Embedded special sensors for LED uniformity and color stability over time Front sensor for real-time corrections 				
Calibration and stability					
Processing	 48 bit color processing (16 bit per color) 96-120 Hz native LCD driving (prevents motion judder, genlocks to all inputs) Genlock and frame sync Slow or fast sync selection Color-stabilized scanning LED backlights for motion blur prevention Motion adaptive de-interlacing Interlaced driving (black-line insertion) for CRT-like motion quality Quantified latency (depending on scanning mode) 				
Connectivity	 Modular input configuration: 4 slots Standard delivered with 1 SDI module Space for additional: 1 x SDI module 2 x DVI input modules 				
SDI module specifications	 Input/output card supporting 2x SDSDI or 2x HD-SDI 3Gb/s and Dual Link inputs 				
Supported signal standards	 SD-SDI 576i/480i (ITU-R BT.601) HD-SDI 1080p/pSf at 30, 29.97, 25, 24 and 23.98 frame rate (SMPTE 274M) HD-SDI 1080i at 60, 59.94 and 50 Hz field rate (SMPTE 274M) HD-SDI 720p at 60, 59.94, 50, 30, 29.97, 25, 24 and 23.98 frame rate (SMPTE 296M) 3Gb/s and Dual Link HD-SDI (SMPTE 372M, 425M) 				

Product specifications	RHDM-2301P				
Functions	Safe area and aspect ratio markers				
	 User selection of working color space (color temperature, gamma, gamut) 				
	■ R-G-B-monochrome channel selection				
	 Extended aspect ratio and scaling factor selection 				
	 Split-screen mode with zooming and panning per displayed input (for multiple camera color correction) 				
	 In-Monitor-Display (IMD) and 2 inmonitor tally lights controlled remotely (optional) 				
Control	 Detachable front control panel with main functions 				
	 Ethernet interface with web server and TCP/IP interface 				
	RS485 serial IMD control (optional)				
	 RS485 parallel GPIO for tally control (optional) 				
	 USB: for firmware and license upload via mass-storage devices 				
Power and environmental specifications	Power consumption: nominal 150W				
·	■ Input voltage: 85-264 VAC, 47-63 Hz				
Dimensions	Dimensions	Front	Rear	Total	
	Width (W)	561mm 22.09in	441mm 17.36in	561mm 22.09in	
	Height (H)	381mm 15in	375mm 14.76in	381 + 44mm 15in + 1. 73in	
	Depth (D)	84mm 3.3in	56mm 2.20in	140mm 5.51in	
	Weight	20,5kg 45.1lbs			
	Rackmount kit available				

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