

RHDM-1701P

17 inch reference monitor for film and post-production



Barco's RHDM-1701 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
- 3D LUT support
- 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-1701P is an ideal reference for a wide range of film and post-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.

BARCO

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Technical specifications

Display	<ul style="list-style-type: none"> • Active area: 16.53" (42cm) diagonal • Resolution: 1920x1080 • Contrast: typical 1000:1 • Panel drive: 96-120Hz, 10 bit native, 22 bit dithered
Optical	<ul style="list-style-type: none"> • Wide gamut RGB-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
Calibration and stability	<ul style="list-style-type: none"> • 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
Processing	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Modular input configuration: 4 slots • Standard delivered with 1 SDI module • Space for additional: <ul style="list-style-type: none"> ◦ 1 x SDI module ◦ 2 x DVI input modules
SDI module specifications	<ul style="list-style-type: none"> • Input/output card supporting 2x SDCSDI or 2x HD-SDI • 3Gb/s and Dual Link inputs
Supported signal standards	<ul style="list-style-type: none"> • 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)
Functions	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Power consumption: nominal 150W • Input voltage: 85-264 VAC, 47-63 Hz 												
Dimensions	<table border="1"> <tr> <td>Width</td> <td>430mm 16.93"</td> </tr> <tr> <td>Height</td> <td>310mm 12.2"</td> </tr> <tr> <td>Depth</td> <td>182.95mm 7.2"</td> </tr> <tr> <td>Width active screen</td> <td>365.9mm 14.41"</td> </tr> <tr> <td>Height active screen</td> <td>205.7mm 8.1"</td> </tr> <tr> <td>Weight</td> <td>14 kg 30.86 lb</td> </tr> </table>	Width	430mm 16.93"	Height	310mm 12.2"	Depth	182.95mm 7.2"	Width active screen	365.9mm 14.41"	Height active screen	205.7mm 8.1"	Weight	14 kg 30.86 lb
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