

# RHDM-2301B

## 23 inch reference monitor for broadcast monitoring



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.

RHDM-2301B is a reliable reference for master control rooms, camera control, camera shading, signal quality checks, technical rooms etc, both in TV studios as well as OB vans.

**BARCO**

Visibly yours

# Technical specifications

<b>Display</b>	<ul style="list-style-type: none"> <li>• Active area: 22.5" (57cm) diagonal</li> <li>• Resolution: 1920x1200</li> <li>• Contrast: typical 800:1 (min 700:1)</li> <li>• Panel drive: 96-120Hz, 10 bit native, 12 bit dithered</li> </ul>
<b>Optical</b>	<ul style="list-style-type: none"> <li>• Wide gamut LED backlight</li> <li>• Selectable white points: D55 – D65 – D93 [Factory: D65]</li> <li>• Selectable gamma 2-2.6 [Factory: 2.35 –EBU/SMPTE compliant]</li> </ul>
<b>Calibration and stability</b>	<ul style="list-style-type: none"> <li>• Compliant with EBU, SMPTE and ITU BT.709 primaries</li> <li>• Deep level, 3D LUT factory calibration</li> <li>• Thermal sensor circuit for LED stabilization with temperature</li> <li>• Embedded spectrometer for overall color stabilization over time</li> <li>• Embedded special sensors for LED uniformity and color stability over time</li> <li>• Front sensor for real-time corrections</li> </ul>
<b>Processing</b>	<ul style="list-style-type: none"> <li>• 48 bit color processing (16 bit per color)</li> <li>• 96-120 Hz native LCD driving (prevents motion judder, genlocks to all inputs)</li> <li>• Genlock and frame sync</li> <li>• Slow or fast sync selection</li> <li>• Color-stabilized scanning LED backlights for motion blur prevention</li> <li>• Motion adaptive de-interlacing</li> <li>• Interlaced driving (black-line insertion) for CRT-like motion quality</li> <li>• Quantified latency (depending on scanning mode)</li> </ul>
<b>Connectivity</b>	<ul style="list-style-type: none"> <li>• Modular input configuration: 4 slots</li> <li>• Standard delivered with 1 SDI module</li> <li>• Space for additional: <ul style="list-style-type: none"> <li>◦ 1 x SDI module</li> <li>◦ 2 x DVI input modules</li> </ul> </li> </ul>
<b>SDI module specifications</b>	<ul style="list-style-type: none"> <li>• Input/output card supporting 2x SDCSDI or 2x HD-SDI</li> <li>• 3Gb/s and Dual Link inputs are optional</li> </ul>
<b>Supported signal standards</b>	<ul style="list-style-type: none"> <li>• SD-SDI 576i/480i (ITU-R BT.601)</li> <li>• HD-SDI 1080p/pSf at 30, 29.97, 25, 24 and 23.98 frame rate (SMPTE 274M)</li> <li>• HD-SDI 1080i at 60, 59.94 and 50 Hz field rate (SMPTE 274M)</li> <li>• HD-SDI 720p at 60, 59.94, 50, 30, 29.97, 25, 24 and 23.98 frame rate (SMPTE 296M)</li> <li>• 3Gb/s and Dual Link HD-SDI (SMPTE 372M, 425M) are optional</li> </ul>
<b>Functions</b>	<ul style="list-style-type: none"> <li>• Safe area and aspect ratio markers</li> <li>• User selection of working color space (color temperature, gamma, gamut)</li> <li>• R-G-B-monochrome channel selection</li> <li>• Extended aspect ratio and scaling factor selection</li> <li>• Split-screen mode with zooming and panning per displayed input (for multiple camera color correction)</li> <li>• In-Monitor-Display (IMD) and 2 inmonitor tally lights controlled remotely (optional)</li> </ul>

<b>Control</b>	<ul style="list-style-type: none"> <li>• Detachable front control panel with main functions</li> <li>• Ethernet interface with web server and TCP/IP interface</li> <li>• RS485 serial IMD control (optional)</li> <li>• RS485 parallel GPIO for tally control (optional)</li> <li>• USB: for firmware and license upload via mass-storage devices</li> </ul>																											
<b>Power and environmental specifications</b>	<ul style="list-style-type: none"> <li>• Power consumption: nominal 150W</li> <li>• Input voltage: 85-264 VAC, 47-63 Hz</li> </ul>																											
<b>Dimensions</b>	<table border="1"> <thead> <tr> <th data-bbox="676 443 847 489">Dimensions</th> <th data-bbox="847 443 1034 489">Front</th> <th data-bbox="1034 443 1220 489">Rear</th> <th data-bbox="1220 443 1434 489">Total</th> </tr> </thead> <tbody> <tr> <td data-bbox="676 489 847 527">Width (W)</td> <td data-bbox="847 489 1034 527">561mm   22.09in</td> <td data-bbox="1034 489 1220 527">441mm   17.36in</td> <td data-bbox="1220 489 1434 527">561mm   22.09in</td> </tr> <tr> <td data-bbox="676 527 847 594">Height (H)</td> <td data-bbox="847 527 1034 594">381mm   15in</td> <td data-bbox="1034 527 1220 594">375mm   14.76in</td> <td data-bbox="1220 527 1434 594">381 + 44mm   15in + 1.73in</td> </tr> <tr> <td data-bbox="676 594 847 632">Depth (D)</td> <td data-bbox="847 594 1034 632">84mm   3.3in</td> <td data-bbox="1034 594 1220 632">56mm   2.20in</td> <td data-bbox="1220 594 1434 632">140mm   5.51in</td> </tr> <tr> <td data-bbox="676 632 847 674">Weight</td> <td colspan="3" data-bbox="847 632 1434 674">20,5kg   45.1lbs</td> </tr> <tr> <td colspan="4" data-bbox="676 674 1434 728">Rackmount kit available</td> </tr> </tbody> </table>				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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