

# 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.

## Product specifications

## RHDM-1701P

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### General specifications

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#### Display

- Active area: 16.53" (42cm) diagonal
  - Resolution: 1920x1080
  - Contrast: typical 1000:1
  - Panel drive: 96-120Hz, 10 bit native, 22 bit dithered
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#### Optical

- 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
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#### Calibration and stability

- 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
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#### 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)
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#### Connectivity

- Modular input configuration: 4 slots
  - Standard delivered with 1 SDI module
  - Space for additional:
    - 1 x SDI module
    - 2 x DVI input modules
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#### SDI module specifications

- Input/output card supporting 2x SDSDI or 2x HD-SDI
  - 3Gb/s and Dual Link inputs
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#### 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)
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## Product specifications

### RHDM-1701P

#### 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

- 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

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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