

# RHDM-1701B

17 inch reference monitor for broadcast monitoring



## Product specifications

## RHDM-1701B

### 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

#### Optical

- Wide gamut LED backlight
- Selectable white points: D55 – D65 – D93 [Factory: D65]
- Selectable gamma 2-2.6 [Factory: 2.35 –EBU/SMPTE compliant]

#### 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

#### 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 SDDSI or 2x HD-SDI
- 3Gb/s and Dual Link inputs are optional

#### 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) are optional
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#### 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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