

# Chromatec QUAD-mv

## Fully featured 4 channel Multi-Viewer

The QUAD-mv continues Chromatec's tradition of designing high quality, innovative products for the serious broadcast and AV user. Scaled for the smaller installation this high resolution, multi-format device provides considerable flexibility having full audio support, browser configuration and control, together with sophisticated alarms reporting.

### Main Features:

- Up to 4 video inputs, composite, SDI, HD-SDI (up to 3G 1080p), 2 x DVI-I : the perfect solution for compact monitoring in smaller OB-vans, editing suites, master control or digital play-out facilities
- Fully customisable display tiles on a chosen background, graphical or plain colour.
- DVI-I output up to 1080p60 (1920x1080) in 16:9, for use with the highest quality LCD displays
- Up to 64 channels of embedded audio may be displayed as industry standard bargraphs with a choice of scales/ballistics and a Loudness display option
- Analogue audio monitor output, 4 pairs of audio derived from any source
- Streamed audio monitor output on the LAN, up to 4 pairs of audio derived from any source
- Up to 32 channels of external audio, analogue or digital (AES/EBU) may be displayed with optional card
- Up to 32 channels of embedded audio may be demuxed to analogue or AES/EBU with optional card
- Alarms for video, audio and metadata with outputs to tallies, GPI/Os, LAN and SNMP traps, allowing connection of the QUAD-mv with external monitoring systems
- Under Monitor Displays (UMDs) via keyboard, LAN or serial cable supporting TSL and other protocols
- Clock display receiving time information via NTP network protocol or LTC
- Genlocked inputs for flicker-free and full frame operation
- Teletext (analogue), subtitles, AFD, WSS, VITC decoding & monitoring
- 1 RU compact design, ideal for OB-vans and other space restricted installations
- Optional 1U remote key panel with 10 x screen layout pre-set buttons
- Comprehensive user-friendly set-up via system menu/browser software
- Optional internal redundant power supply
- All audio/video input/output cards are hot-swappable



# Technical Specifications:

## Inputs

- Video, up to 4 auto-sense (composite/SDI/HD-SDI) video inputs, any mix of:
  - HD-SDI, SMPTE 292M (up to 1080p)
  - SDI, SMPTE 259M
  - Two DVI-I digital or analogue component (up to 1080p, 3Gbps)
  - Composite video PAL/NTSC, CVBS 1 Vpp
  - S-video (Y/C)
  - Component video RGB/YUV some connector related limitations apply
- Internal audio inputs
  - Embedded audio, up to 16 channels per video feed, 64 channels total
- External audio
  - Analogue, up to 32 channels (16 pairs)
  - AES/EBU, up to 32 channels (16 pairs)

Audio data derived from the Chromatec DATA-xx audio metering unit, via LAN, up to 64 channels (analogue or digital AES/EBU)

## Outputs

- One DVI-I output supporting resolutions up to 1080p60 (1920x1080, 16:9)
- Compatible with displays handling XGA TG, XGA, 720P60, 720P50, SXGA, SXGA+, 1080P50, 1080P60.
- Video sources fully scalable and displayed in native format, 4:3 or 16:9
- Audio monitoring output, up to 8 analogue output channels as a standard feature
- Audio bargraphs may be superimposed on the video, placed outside of the video or displayed in a dedicated tile.

## Alarms

- On video inputs
  - Video sync loss
  - Black
  - Freeze-frame
- On metadata inputs
  - VITC loss
  - Teletext loss
  - Sub-titles loss
  - V-chip loss
- On audio inputs
  - Embedded audio loss
  - External audio loss
  - Over level
  - Out of phase
- With outputs to
  - Tallies
  - Borders
  - GPI/Os
  - LAN
  - SNMP traps

front panel)  
LAN via browser  
RS232/422 supporting TSL, Image Video or other protocols

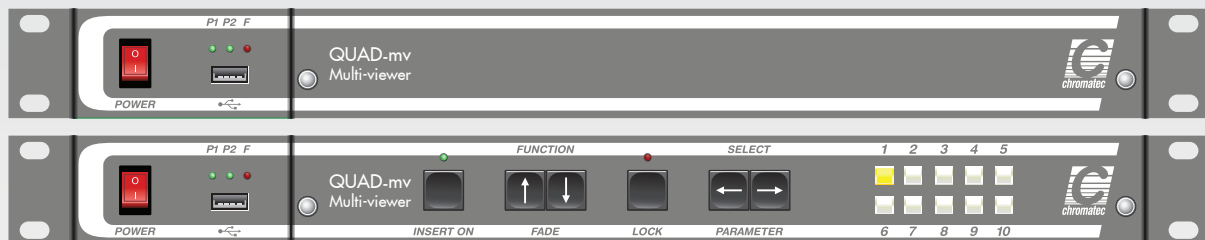
- Clock inputs via NTP or LTC
- Up to four Bitmap files can be uploaded and may be displayed simultaneously
- GPI/O with 16 inputs, 8 outputs

## Hardware

- IRU compact design
- Control and configuration using browser software via the LAN
- Video Input card: accepts composite, SDI, DVI-I, S-Video, YUV/RGB video formats
- Audio input or output card consumes 1 slot
- Input and output cards are hot-swappable
- Optional redundant PSU to provide dual load-sharing power supplies
- Power supply and fan failure LED indicators on front panel.

## Other features

- UMD via Keyboard (USB connector on



QUAD-mv shown with optional control buttons panel



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