

Chromatec SM-xx

Fully featured Multi-Viewer with up to 16 inputs

The SM-xx is one of Chromatec's high quality, innovative multi-viewer products designed 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 16 video inputs, composite, SDI, HD-SDI, 2 x DVI-I (up to 3G 1080p): 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 256 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 SM-xx 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
- Front key panel with 10 x screen layout pre-set buttons
- Comprehensive user-friendly set-up via system menu/browser software
- Dual internal load sharing power supplies
- All audio/video input/output cards are hot-swappable



Technical Specifications:

Inputs

- Video, up to 16 auto-sense (composite/SDI/HD-SDI) video inputs (4 inputs per video input card) Using the VIP2 card 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. Using the VIP1 card, as above less HD-SDI
- Internal audio inputs
 - Embedded audio, up to 16 channels per video feed, 256 channels total
- External audio (option)
 - 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

Keyboard (USB connector on front panel)
 LAN via browser
 RS232/422 supporting TSL, Image Video or other protocols

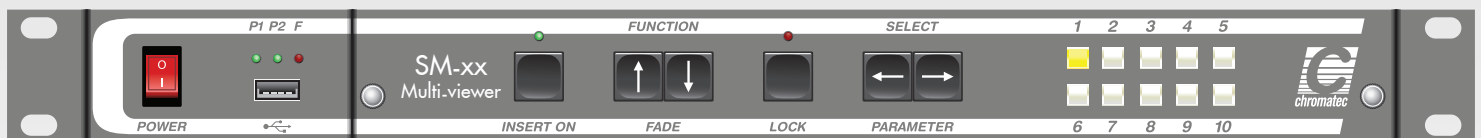
- Clock inputs via NTP or LTC
- Up to four Bitmap files can be uploaded and may be displayed simultaneously
- GPI/O with 16 inputs, 8 outputs

Hardware

- 1RU compact design
- Control and configuration using browser software via the LAN
- Video Input card VIP2: accepts composite, HD-SDI, SDI, DVI-I, S-Video, YUV/RGB video formats. Input card VIP1 accepts the same excluding HD-SDI
- Audio input or output card consumes 1 slot
- Input and output cards are hot-swappable
- Dual PSUs provide load-sharing and backup
- Power supply and fan failure LED indicators on front panel.

Other features

- UMD via



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