KRAMER

MP-xx Modular MultiViewer Family
4-72 Input Modular MultiViewer

| HDMI | 3G HD-SDI - BNC | Ethernet - RJ-45
| HDCP Compliant

The MP-xx is our new fully-featured 3RU Modular MultiViewer. It is ideal for a wide range of Professional AV and High End Broadcast applications. MP-xx is extremely flexible and allows for monitoring of a wide range of both Video and Audio sources on a single, or dual, independent displays.

The compact 3RU frame features 20 modular slots, 2 of which are reserved for the Network and MultiViewer controller cards. The other 18 slots are available for modular Video or audio input cards. Additional output cards can also be added into these 18 slots to allow multiple MultiViewer instances in the same frame. In fact by adding additional output cards, up to 9 independent dual output MultiViewers can be housed in the 3RU MP-xx frame. This makes the MP-xx an ideal solution for space critical applications such as Outside Broadcast units.

The MP-xx MultiViewer offers all the standard features you would expect from a fully-featured Broadcast MultiViewer such as tally support, sophisticated Video/Audio/Metadata alarms, Under Monitor Display, Genlock input, multiple clocks and timers and much more. But, despite its superb feature set, one of its key advantages is that we make it easy to use. The MultiViewer is controlled via an intuitive browser based GUI that enables you to free-from scale and position all your video/audio tiles on screen using simple drag, drop and click technology.

Due to the simplicity of its control without loss of features, coupled with our outstanding 5 year warranty, the MP-xx is already the MultiViewer of choice for a wide range of Broadcast and command and control applications worldwide.

The MP-xx can be expanded from 4 to 72 video inputs in increments of 4 at a time. Video inputs can be chosen to be a mixture of HD-SDI (up to 3G), HDMI (with HDCP), RGBHV (at 525/625 lines video level), Component Video or Composite Video. Several rear modules can be partnered with our VIP-3 (or VIP-3D) video scaler cards to give ultimate input flexibility.

The MP-xx is also extremely powerful in terms of its audio metering capability. Up to 16 channels of embedded audio from each Video input can be metered on screen via industry standard ballistically correct scales. This gives you the ability to display metering of up to 1152 channels of embedded audio simultaneously. External Analog or digital audio input cards can be added in place of Video input cards to allow for level metering of up to a maximum of 512 channels of external Digital or Analog audio. A selection of Analogue or Digital audio input and output cards can be partnered with our RMP-A32 Audio rear. Up to a maximum of 3 x Audio output cards and 8 x Audio input cards can be added to a single MultiViewer instance. Furthermore, the new optional VIP-3D Video scaler card offers metering (but not decoding) of Dolby® E Metadata embedded on the video inputs.

Two independent outputs are featured as standard on

the MP−xx. Each output offers both HDMI and HD−SDI (to 3G) in parallel. Each independent output also has the option to embed up to 4 pairs of audio selected from any of the embedded or external audio sources. This can be done independently for each output set.

Future expansion is easy with the MP−xx. Additional video or audio input cards can be added in the future up to the frames capacity. Alternatively, if you are currently using the smaller 1RU SMP−xx frame and your inputs outgrow that frame, the same cards (including the network and MultiViewer controller card) can be ported to the MP−xx frame to expand your system further meaning all you need to do is purchase the MP−xx frame and any additional input/output cards you require for expansion

FEATURES

Compact 3RU Frame - Ideal for Outside Broadcast Vans or other space restricted applications

Modular Format - Mix multi−format video inputs, add discrete audio input metering cards, or even Multiple MultiViewer output cards to give up to 9 independent MultiViewers in the same 3RU frame!

Future Expansion - Expand from 4 to 72 video Inputs (in increments of 4)

Free-Form Scale & Position - All video tiles are fully customizable in scale & position on screen & offer the choice to maintain, or deviate from, standard aspect ratio. Each tile also gives the option to change border color & display tally, audio metering & alarm information

Exceptional Image Quality - State of the art image processing algorithms for de−interlacing & scaling

Multi-Format Video Input Cards - Choose from the following Input Rears:RMP−SD4: 4 x BNC inputs. Each supports up to 3G HD−SDI. Up to 2 can also support analog Composite Video.RMP−SL4: 4 x looping 3G HD−SDI inputs. 8 connectors total on a choice of 1.0/2.3 or Micro BNCs.RMP−HM4: 4 x HDMI inputs.
RMP−HM2: 2 x HDMI inputs & 2 x BNC inputs. BNCs can support up to 3G HD−SDI or analog Composite Video.
RMP−AN4: 4 x Analog inputs supporting either 4 x Component Video, or 2 x RGBHV and 2 x Composite Video. 12 connectors total on a choice of 1.0/2.3 or Micro BNCs.
RMP−CV4: 4 x BNC inputs. Each supports analogue Composite Video or up to 3G HD−SDI

Max Input Resolution - 1080p, 1920x1200 & 3G HD−SDI (SMPTE 424M)

Discrete Analog & Digital Audio I/O Cards - Up to 512 channels of external audio may be metered on screen by choosing from the following cards:AIP32A: 32 Channel Analog Audio input card.AIP32D: 32 Channel Digital Audio input card.AIP32AD: 32 Channel Analog + 32 Channel Digital Audio input card.AOP32D: 32 Channel Digital Audio output card

Embedded Audio Metering - Meter up to 16 channels of embedded audio per input via standard balistically correct scales (E.g. BBC PPM, Nordic PPM, extended VU)

Optional VIP-3D Scaler Card - For metering (but not decoding) of embedded Dolby ® E metadata

Dual Independent Outputs - Each output gives both HDMI & HD−SDI in parallel

Audio Monitoring - Up to 4 pairs can be embedded onto the HDMI & HD−SDI outputs for monitoring. The audio is independently selectable (per set of outputs) from any embedded, or external, audio source

Max Output Resolution - 1080p/60Hz & 3G HD−SDI (SMPTE 424M) (4K/30Hz to be added shortly)

Front Panel 1/4 Inch Jack - Monitor an embedded, or discrete, Audio pair from any source (selectable)

Control & Setup Via LAN - The MP−xx features comprehensive browser based control via a user−friendly GUI

Front Panel Menu - System health monitoring & IP set up

Hot Swappable Cards

Intelligent Fan Control - To regulate system temperature

Alarms - For video, audio & metadata with outputs to tallies & GPOs, LAN & SNMP traps, allowing connection to external monitoring systems

Clocks & Timers - Multiple Analog & Digital clocks (over Multiple time zones) can be displayed simultaneously together with Countdown/Countup/On Air timers. Timing reference can be taken from any of NTP server, LTC feed, VITC or set locally

Logos - Custom channel, or company logos, can be easily uploaded & displayed using the MP−xx internal ftp page

Decoding & Monitoring - Teletext, subtitles, AFD, WSS, VITC can all be decoded & monitored. NTSC CC decoding & monitoring also available shortly!

GPI & Tally Support

Genlock Input - For flicker−free & full frame operation

Under Monitor Display - UMD text can be updated via the web interface, USB keyboard, or dynamically via Sierra or TSL protocol

Redundant Power Supply (RPS) - Optional via 1RU Power−xx frame

5 Year Warranty

TECHNICAL SPECIFICATIONS

Product Dimensions	19" x 17.91 x 3U (43.6cm x 45.50cm x 13.20cm) W, D, H
Product Weight	10.5kg (23.1lbs) approx
Shipping Dimensions	61.50cm x 56.50cm x 30.00cm (24.21" x 22.24" x 11.81") W, D, H
Shipping Weight	13.0kg (28.7lbs) approx

CONFIGURATIONS

MP-FRAME	Includes MultiViewer Controller and Network cards
Multiple Configurations	Combinations of video and audio input and output cards. Please contact your local Kramer office or dealer to tailor this to your application