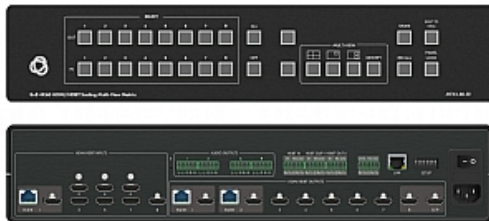# MTX3-88-SE
8x8 Seamless Multi-viewer Matrix

| HDMI | Ethernet - RJ-45 | HDBaseT

The MTX3 88 SE is a high-performance video processing seamless matrix scaler, with eight HDMI inputs independently routable to eight HDMI outputs. The matrix features an additional HDBT input and two mirrored HDBT outputs for local and remote presentation of high-quality seamless quad-views

FEATURES

Powerful Multi-viewer - High-resolution flexible multi-view processor, simultaneously displaying dual quad-view presentations each from four inputs, or quad dual-view presentations each from two inputs, concurrently mirrored on dual remote displays

Seamless Switching - Clean and instantaneous switching between inputs, with smooth and uninterrupted transition between presented content on displays, greatly enhances end-users' presentation experience

High-Performance Scaling Experience - Built-in ProcAmp high-resolution scaling technology for optimal up or down image scaling and video signal auto-adjustment with output-connected display capabilities, to gain end-users' valuable high presentation experience

HDMI Signal Switching - HDCP 2.2 compliant, supporting deep color, x.v.Color™, CEC, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0

Simple Control - Remote IP-controller connection, browser operation webpage, or local panel buttons, and eight multi-view preset configurations, for easy and fully flexible user ports selection, signals routing, multi-view switching, and matrix control

Built-in Intelligent Control Gateway - Remote IP-driven intelligent serial control of connected devices to reduce installation complexity and costs, and to enable easy integration with control systems, such as Kramer Control

High Performance Standard Extension - Professional HDBaseT extension, providing extended-reach signals over twisted-pair copper infrastructures, for remote input source, and mirrored matrix dual outputs content on remote displays. Conveying multiple audio-visual, Ethernet, control and power signals, matrix open-standard extension can be connected to any market-available HDBaseT-compliant extension products. For optimum extension reach and performance, use recommended Kramer cables

I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling and processing ensures plug & play operation for HDMI source and display systems

Flexible USB Routing and Extension - USB 2.0 signals extension are flexibly routed between HDBT input and output links, enabling a remote active USB host connection to the remote USB devices connected to the routed HDBT extender end-point, such as camera and audio devices, in parallel to its locally connected USB devices transmitter or receiver side, such as HID (Human Interface Devices) mouse or keyboard devices

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Audio De-embedding - The digital audio signal passing through to selectable outputs, is de-embedded, converted to an analog signal and sent to four stereo balanced analog audio outputs. This enables playing the audio on a locally connected professional audio system (such as DSP) and speakers, in parallel to playing it on the speakers connected to the AV acceptor devices (such as TVs with speakers)

Multi-channel Audio Transmission - Up to 32 channels of digital stereo uncompressed signals for supporting studio-grade surround sound

Ethernet Extension - Ethernet interface data flows in both directions, allowing extension of up to 1 Gbps Ethernet connectivity for LAN communication and device control

Bidirectional RS-232 Extension - Serial interface data flows in both directions, allowing data

transmission and device control

Bidirectional Infrared Extension - IR interface data flows in both directions, allowing remote control of peripheral devices located at either end of the extended line

Secured Operation - Standard IT–grade 802.1x authentication for secured IT LAN connectivity operation

Comprehensive Management - Local panel–button operation, remote IP–driven firmware upgrade and management via user–friendly embedded web pages, and remote IP or local serial service and management via API commands and responses communication, for flexible service options and ensure lasting, field proven deployment

Easy and Elegant Installation - Single cable connectivity for both HDBaseT signals and PoE power distribution with only a single power mains connection

TECHNICAL SPECIFICATIONS

Inputs	8 HDMI: On female HDMI connectors
	1 HDBT: On an RJ−45 female connector
Outputs	9 HDMI: On female HDMI connectors
	2 HDBT: On RJ−45 female connectors
	4 Balanced Stereo Line Level: On 5−pin terminal block connectors
Ports	2 RS-232: On a 5−pin terminal block connector
	1 LAN: On an RJ−45 female connector
	2 RS-232 + IR (for HDBT outputs): On 5−pin terminal block connectors, for serial and IR link extension
	1 RS-232 + IR (for HDBT input): On a 5−pin terminal block connectors, for serial and IR link extension
Video	Max Bandwidth: 18Gbps (6Gbps per graphic channel)
	Max Resolution: 4K@60Hz (4:4:4) resolution
	Input & Output Resolutions 1024X768P/60, 1280X768P/60, 1280X720P/60, 1280X720P/50, 1280X720P/24, 1280X720P/25, 1280X720P/30, 1280X1024P/60, 1600X1200P/60, 1680X1050P/60, 1920X1080P/60, 1920X1080P/50, 1920X1080P/24, 1920X1080P/25, 1920X1080P/30, 1920X1200P/60, 3840X2160P/24, 3840X2160P/25, 3840X2160P/30, 3840X2160P/50, 3840X2160P/60
	Content Protection: HDCP 2.3
	HDMI Support: Deep Color, 3D, HDR as specified in HDMI 2.0b
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Extension Line	Reach: Up to 100m (330ft) Note: When using Kramer HDBaseT cables
	PoE Providing: 15W per 802.3at Type 1
	Standards Compliance: HDBaseT 3.0
Extended USB	Max USB 2.0 Data Rate 480Mbps
	Max Transmitted Data Bandwidth 300Mbps
	Standards Compliance USB 2.0 and 1
Extended Ethernet	Max Data Rate: 100Mbps
Extended RS-232	Baud Rate: 300 to 115200
Analog Audio	Max Level: 9dBu
	Impedance: 500Ω
	Bandwidth: 20Hz − 20kHz
	Crosstalk: −114dB
	THD + N: 0.005% @1kHz at nominal level

	S/N Ratio: −83dB, 20Hz − 20kHz
	Coupling: DC
Power	Consumption 85−240V AC, 120W max
Environmental Conditions	Operating Temperature 0° to +40°C (32° to 104°F)
	Storage Temperature −40° to +70°C (−40° to 158°F)
	Humidity 10% to 90%, RHL non−condensing
Regulatory Compliance (Standards Compliance)	Safety CE, FCC, UKCA
	Environmental RoHs, WEEE
Enclosure	Size 19" 2U
	Type Aluminum
	Cooling Fan Ventilation
General	Net Dimensions (W, D, H) 43.7cm x 23.6 cm x 8.8cm (17.2" x 9.3" x 3.5")
	Shipping Dimensions (W, D, H) 52.6cm x 47.5cm x 18.4cm (20.7" x 18.7" x 7.2")
	Net Weight 3.9 kg (8.6lbs)
	Shipping Weight 5.4 kg (12lbs) approx
Accessories	Included Power cord
Product Dimensions	19" x 9.29 x 2U (43.6cm x 23.60cm x 8.80cm) W, D, H
Product Weight	6.3kg (13.8lbs) approx
Shipping Dimensions	59.40cm x 50.40cm x 19.50cm (23.39" x 19.84" x 7.68") W, D, H
Shipping Weight	7.8kg (17.1lbs) approx