

Ordering Outline:

Model – size / video format + video connector / audio format + audio connector

i.e: MTX - 1616 NAD / R

Connector type

R = RCA

Audio Format

D – Digital (coaxial SP/DIF,)

A – Analog un-balanced

Video format:

N = component

Unit size configuration

fi rst 2 digits = number of inputs

second 2 digits = number of outputs

0404 = 4 inputs x 4 outputs

0408 = 4 inputs x 8 outputs

0808 = 8 inputs x 8 outputs

0816 = 8 inputs x 16 outputs

1616 = 16 inputs x 16 outputs

Model:

MTX - 200MHz series

MTX Series A/V Matrix Switchers



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Features

- ▶ **200 MHz (-3 dB) video bandwidth** - Provided even when one input is directed to all outputs.
- ▶ **NTSC, PAL, SECAM Capable** - Ensures international compatibility
- ▶ **Audio input gain control** - Each audio input can be controlled in 0.5 dB steps to allow matching of source equipment outputs.
- ▶ **Audio output volume control** - Choose between logarithmic or linear volume control.
- ▶ **Audio output balance control** - Each output allows you to set a balance level in 0.5 dB steps.
- ▶ **Audio output muting** - Each output can be muted directly or toggled.
- ▶ **Audio output maximum volume level** - Each output has a maximum volume level setting that prevents rooms from exceeding a pre-defined sound level. This setup is only available through serial ports to prevent un-authorized tampering.
- ▶ **Audio breakaway** - Analog Stereo audio can be routed seperately from video or digital audio
- ▶ **Video breakaway** - Video can be routed seperately from stereo audio or diggital audio
- ▶ **Digital audio breakaway** - Digital audio can be routed seperately from stereo audio or video.
- ▶ **All signals routed** - All video and audio signals on a single input can be routed using a single command.
- ▶ **Salvo mode** - A single input can be routed to up to 8 ouputs in a single command.
- ▶ **RS-232, RS485 control** - The matrix uses simple ASCII commands for both configuration and control. This allows easy field operation and programming for controllers.
- ▶ **Infrared Controllable** - All routing, volume control and preset functions are available through IR control. The HDX features a teaching mode through the front panel.
- ▶ **Front panel lockout** - Operation of the matrix from the front panel can be locked out. Status can still be viewed.
- ▶ **Internal international power supply** - All models are equipped with internationally rated auto switching power supplies allowing the matrix to be used worldwide.

MTX Series Specifications - available in 4x4, 4x8, 8x4, 8x8, 8x16, 16x16

VIDEO - General

Gain.....	Unity
Bandwidth	200 MHz (-3dB) fully loaded
Differential phase	0.01°
Differential gain	0.01%
Crosstalk	-60 dB @ 10MHz
Switching speed.....	100 ns per route

VIDEO Inputs

Connectors	
Composite	RCA, BNC (optional)
S-video	4-Pin Mini-DIN, BNC (optional)
HD/Component	RCA, BNC (optional)
RGBhv.....	BNC, HD-15 (optional)
Nominal level..... 1 vp-p	
Min-Max level	0 v to 2 vp-p with no offset
Impedance	75 ohms
DC offset (max. allowable)	0.5 v

VIDEO Outputs

Connectors	
HD/Component	RCA, BNC (optional)
Nominal level..... 1 vp-p	
Min-Max level	0 v to 2 vp-p with no offset
Impedance	75 ohms
DC offset (max. allowable)	0.5 v

Control

Serial control port	RS-232: DB9 RS485: RJ12 jack
Baud rate and protocol.....	4800-38400 baud, 8 data bits, 1 stop bit, no parity
Serial control pins (DB-9)	RS-232: 2=TX, 3=RX, 5=GND
Serial control pins (terminal) ..	RS-485: 3=pos, 4=neg
Infrared	38KHz, teaches codes through front panel. CCF codes available through website or on request.

AUDIO - General

Gain.....	-65 db to +32 dB
Frequency response	20 Hz to 20 kHz ,± 5dB
S/N	> 90 dB at +32 dB output
Crosstalk	-80 dB @ 1 kHz fully loaded
Stereo channel seperation	80 dB @ 1 kHz
CMRR	> 75 dB @ 20 Hz to 20 kHz

AUDIO Inputs

Input gain adjustment.....	-16 dB to +8 dB in 0.5 dB steps
Max level	2 vp-p

AUDIO Inputs - unbalanced

Connectors.....	RCA, BNC (optional)
Impedance	10k ohm
Gain error	±0.1 dB channel to channel

AUDIO Inputs - balanced

Connectors.....	3.5 mm 5-pos terminal block
Impedance	600 ohm
Gain error	±0.1 dB channel to channel

AUDIO Outputs

Output volume range.....	-64 dB to 32 dB (-90 dB mute)
linear mode	1 dB steps
logarithmic mode.....	logarithmic
balance.....	1 dB steps

AUDIO Outputs - unbalanced

Connectors.....	RCA, BNC (optional)
Impedance	600 ohm

AUDIO Outputs - balanced

Connectors.....	3.5 mm 5-pos terminal block
Impedance	600 ohm

General

Power (autoswitching).....	70 watts
Rack mount	yes
Enclosure	metal
Dimensions	17 ¼" wide x 13 ½" deep
Height.....	dependant upon configuration
Weight (typical)	
2 RU	10 lbs.
3 RU	13 lbs.
4 RU	15 lbs.
5 RU	18 lbs.