

Ordering Outline:

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

i.e: HDX - 2432 / N R / A D R

Analog connector type

R = RCA
B = BNC
T = Terminal block

Audio Format

D – Digital (coaxial SP/DIF,)
A – Analog un-balanced
B – Analog balanced on terminal blocks

Video Connectors (non-digital formats)

R = RCA (component only)
B = BNC connector indicator
H = HD-15 D-Sub

Video format:

N = component (MTX or HDX series only)
R = RGBHV (VGX series only)

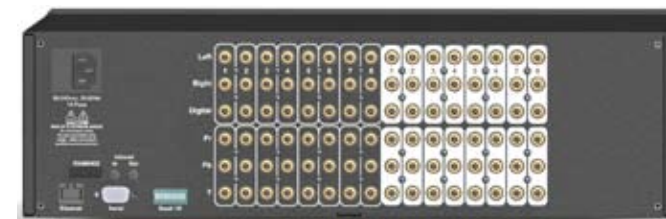
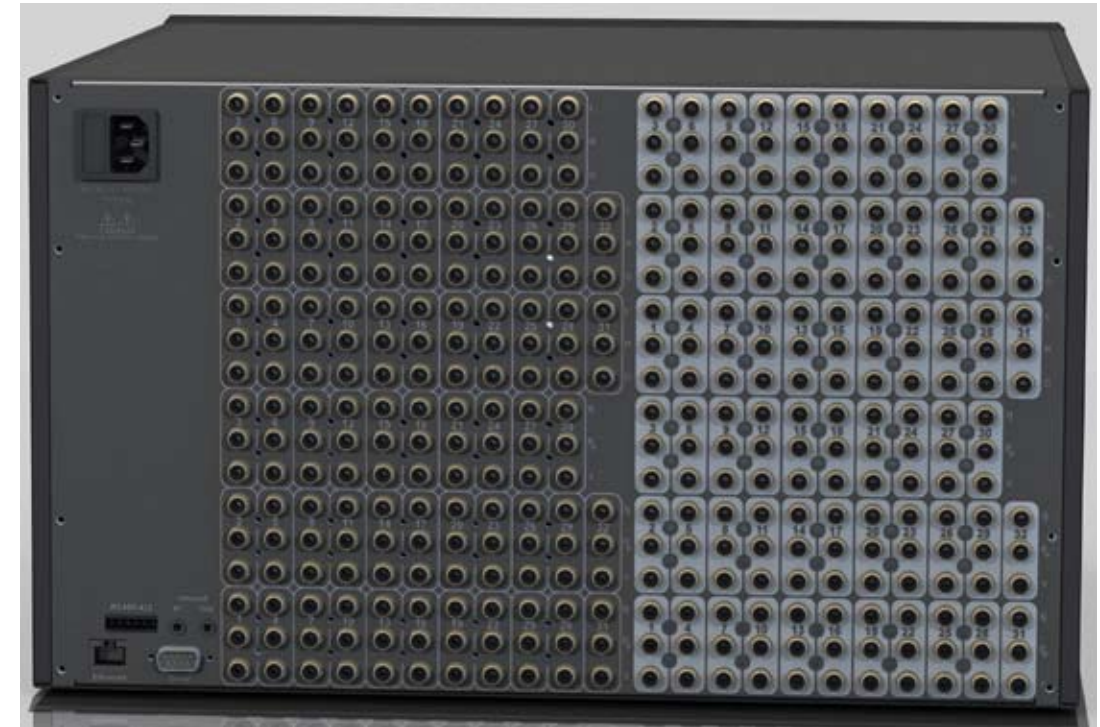
Unit size configuration

fi rst 2 digits = number of inputs
second 2 digits = number of outputs
0816 = 8 inputs x 16 outputs
2432 = 24 inputs x 32 outputs

Model:

HDX - 300MHz series

HDX Series A/V Matrix Switchers



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Features

- ▶ **300 MHz (-3 dB) video bandwidth** - Provided even when one input is directed to all outputs.
- ▶ **NTSC, PAL, SECAM Capable** - Ensures international compatibility
- ▶ **Presets** - Up to 64 presets allow configurations to be recalled quickly. The complete matrix or just a few outputs can be included in each preset. Volume control for each output can also be included in each preset. (not on MTX series)
- ▶ **Balanced or Unbalanced stereo audio** - Choose a configuration that includes either balanced or unbalanced audio. Balanced systems can be used for unbalanced signals as well as balanced.
- ▶ **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 with a soft ramp mute or direct mute.
- ▶ **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 or Ethernet ports to prevent un-authorized tampering.
- ▶ **Audio breakaway** - Analog Stereo audio can be routed separately from video or digital audio
- ▶ **Video breakaway** - Video can be routed separately from stereo audio or digital audio
- ▶ **Digital audio breakaway** - Digital audio can be routed separately 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 outputs in a single command.
- ▶ **Ethernet, RS-232, RS485/422 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.
- ▶ **Redundant power supplies** - HDX models can be equipped with redundant power supplies.

HDX Series Specifications - available in 4x4 to 64x64

VIDEO - General

Gain.....	Unity
Bandwidth	300 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	
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)
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

Control

Serial control port	RS-232: DB9 RS485/422 terminal block
Baud rate and protocol.....	19200 default, 8 data bits, 1 stop bit, no parity 4800 - 115k baud set through front panel
Serial control pins (DB-9)	RS-232: 2=TX, 3=RX, 5=GND
Serial control pins (terminal) ..	RS-485: 1=pos, 2=neg RS-422: 3=TX+, 4=TX-, 5=RX+, 6=RX-
Ethernet control port.....	RJ-45 female connector
Ethernet data rate	10/100Base-T half/full duplex autodetect
Ethernet protocol	TCP/IP, telnet, HTTP, ICMP, DHCP
Infrared	38KHz, teaches codes through front panel. CCF codes avail- able 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 separation	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).....	70-120 watts (size dependant)
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.