

MARS Matrix Switcher

- Ultra-Flat Response
- Optional volume control
- Choice of front panel control or blank front panel
- RS-232 control port
- Breakaway
- Groupings
- Programmable macro functions
- Virtual Matrix Levels
- Linkable enclosures (500 MHz model only)
- Rack mounting ears included
- Audio connections support balanced or unbalanced

The MARS matrix switcher is designed to incorporate the convenience of a fixed matrix switcher with the features, specifications and signal choices of our larger lines. The MARS matrix switcher includes more than 80 off the shelf models designed for small to mid-range applications including home theater, boardrooms, sports bars, video conferencing, retail, security and portable command-control centers.

There are over 50 off-the-shelf models available to route composite, component, stereo audio and digital audio. 500 MHz units can also be used to route SD-SDI. For even more convenience each signal component can be individually programmed to a specific level. For example, a 8x4 RGB model can be configured and used as a 8x4 composite + 8x4 Y/c.

FIXED AND FLEXIBLE

Each signal component can be individually programmed to a specific level. For example, a 12x8 RGBHV can be configured and used as a 12x8 Y/Pb/Pr + 12x8 S-video.

ULTRA-FLAT RESPONSE

The bandpass curve is as flat as possible, measured at a tight +/-3 dB, unlike other manufacturers who specify only -3 dB to allow for the use of excessive peaking, damaging the signal, to record a wider bandwidth.

PROFESSIONAL FEATURES

All 3RU models are equipped with breakaway to route audio, audio follow video or video, groupings, programmable macro functions, and optional volume control.

MULTIPLE CONTROL OPTIONS

Choose from local X/Y control panel or blank front panel. All models come with standard RS-232/422 control port.

RGB SPECTRUM®
a visual
communications
company™



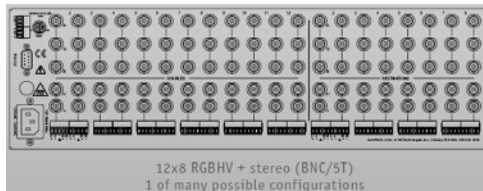


I/O RANGE

8x4, 8x8
12x8

SIGNAL TYPES

Composite, S-video, Y/c
HDTV, Y/Pb/Pr, YUV
RGB, RGsB, RGBS, RGBHV
SD-SDI
Mono Audio, Stereo Audio
S/PDIF, AES 75 Ω



GENERAL

AC Power: 100-240 VAC single phase, 47-63 Hz
Power Consumption (max): 51 Watts per enclosure
Operational Temperature: 32° to 110° F (0° to 43° C)
Humidity: 0 to 90% non-condensing
Enclosure Dimensions: 10.4" (26.4 cm) depth
17.4" (44.2 cm) width w/o rack ears
18.8 (47.7 cm) width w/ rack ears
Height: 5.2 (13.0 cm) 3 RU
Weight: Appx. 12 lbs (5.4 kg) per enclosure
Approvals: CE, ETL, cETL, FCC

STANDARD AUDIO

Input Level (max): +27 dBu, balanced
Input Impedance: 18 kΩ
Output Level (max): +27 dBu, balanced
Output Impedance: 50 Ω
Frequency Response: <+/- 0.1 dB (20 Hz to 20 kHz)
THD + Noise: <0.02% (20 Hz to 20 kHz, Vin = -6 dBu to +26.6 dBu), no volume control
<0.1% (20 Hz to 20 kHz, Vin = -10 dBu to +20 dBu), with volume control
Signal to Noise Ratio: >105 dB (20 Hz to 20 kHz, Vin = +20 dBu), no volume control
>80 dB (20 Hz to 20 kHz, Vin = +10 dBu), with volume control
Crosstalk: <-90 dB (1 kHz, Vin = +14 dBu), no volume control
<-110 dB (20 Hz to 20 kHz, Vin = +14 dBu), with volume control
Input Volume Adj. Range: +10 dB to -10 dB
Output Volume Adj. Range: +10 dB to -70 dB
Connector Options: 3T, 5T

VIDEO (WIDEBAND AND ULTRA-WIDEBAND)

Input Level (max): +/- 1.5 Volts
Input Impedance: 75 Ω
Output Level (max): +/- 1.5 Volts
Output Impedance: 75 Ω
Frequency Response: 300 MHz or better (+/- 3dB) wideband
500 MHz or better (+/- 3 dB) ultra-wideband
Crosstalk: <-60 dB (f = 5 MHz)
Signal to Noise Ratio: >65 dB (Vin = 0.7V, 100% IRE)
HV Sync Input: +/- 5 Volts
HV Sync Output: +/- 5 Volts
HV Frequency: 50 MHz or better (+/- 3dB)
HV Crosstalk: <-70dB @ 5MHz
Connectors: BNC

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