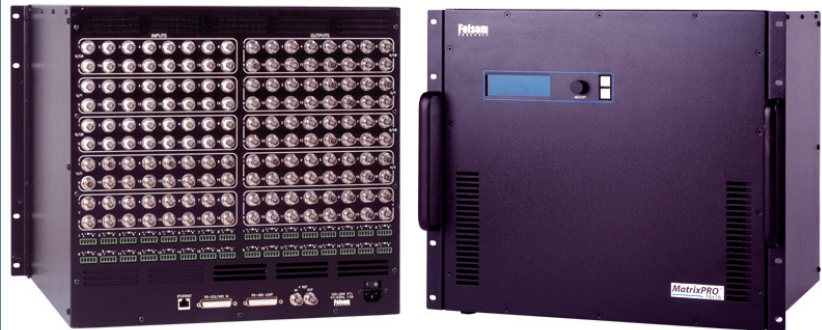


# MatrixPRO analog series

MatrixPRO is used for routing analog RGBHV video signals.



All inputs are universal and can accept computer (up to 1600x1200), composite, s-video, component video, HDTV and RGBHV. Each model provides for switching of RGBHV signals and two channel stereo audio (balanced and unbalanced). Each input and output is individually isolated and buffered. These input(s) can be switched to any one or all outputs with no crosstalk or signal noise between channels.

Units are rack-mountable, and each unit includes RS-232/485 capability. The 12x8 model comes standard with the easy to operate front panel control, which allows for simple input and output selection directly from the front panel. All units can be connected to an optional Remote Control Interface that allows for remote input and output selection. An Ethernet port for IP Control is featured on all units.

The MatrixPRO series also features I/O grouping. This grouping allows the matrix to be divided into smaller sub-switchers, making installation and control easier. I/O grouping allows specific outputs to be grouped together-such as those designated for a specific video format. Each unit features Vertical Interval Switching capability to provide glitch-free switching when used with synchronous video sources. RGB delay is used when video is not synchronously locked.

## MP Software

Included with each unit is a copy of Folsom's MP Control Software. A Windows®-based control program that allows you to configure and control the matrices for various applications.

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# Technical specifications

<b>Video Routing</b>	Gain: Unity Bandwidth: 350 MHz (-3dB), fully loaded (One input driving all outputs) Crosstalk: -80dB @ 1 MHz, -65dB @ 10 MHz, -55dB @ 30MHz, -42dB@ 100 MHz Switching Speed: 100 us to 4 seconds (Programmable)
<b>Video Input</b>	Number/signal type: 12, 16, or 32 RGBHV, RGBS, RGsB, RsGsBs, HDTV, component video, S-video, composite video Connectors: 12, 16, 32 x 5 are female Minimum/maximum levels: Analog-0.5V to 1.85V p-p with no offset Impedance: 75 ohms Return loss: -30dB @ 5 MHz Maximum DC offset (Vin=1Vpp): +1.8V, -.6V
<b>Video Output</b>	Number/signal type: 4,8, 16, or 32 RGBHV, RGBS, RGsB, RsGsBs, HDTV, component video, S-video, composite video Connectors: 4, 8, 16 x 5 BNC female Minimum/maximum level: 2V p-p Impedance: 75 ohms Return loss: -30dB @ 5 MHz DC offset: ±5mV maximum with input at 0 offset Switching type: RGB Delay up to 4 seconds
<b>Sync</b>	Input type: RGBHV, RGBS, RGsB, RsGsBs Output type: RGBHV, RGBS, RGsB, RsGsBs Input level: 0.5V to 5.0V p-p, 2.5V p-p normal Output level: AGC to TTL: 4V to 5V p-p Input impedance: 75 ohms Output impedance: 75 ohms Polarity: Positive or negative (follows input)
<b>Control/Remote</b>	Serial control port: RS-232/ RS-485, 25-pin female D connector Baud rate and protocol: 9600, 8-bit, 1 stop bit, no parity Serial control pin configurations: 2 = TX, 3 = RX, 5 = GND Ethernet control port: 1 RJ-45 female and connector Ethernet data rate: 10/100Base-T, half/full duplex with autodetect Ethernet protocol: ARP, ICMP (ping), TCP/IP, Telnet, HTTP
<b>Input Power</b>	Type: 100-240 VAC, 47-63 Hz, auto-configuring Connector: IEC connector with integrated fuse and switch Power Dissipation: (12x4, 12x8): 60 watts (16x16, 16x8): 100 watts Dual power supplies: Optional for 16x16 and 16x8 models
<b>Physical</b>	12x8 Series: 8.75" H x 17.0" W x 13" D (5U high, full rack width) 22.2 cm H x 43.2 cm W x 33.0 cm D 16x16 Series: 15.75" H x 17.0" W x 13" D (9U high, full rack width) 31.1 cm H x 43.2 cm W x 33.0 cm D
<b>Environmental</b>	Temperature: 0-40 degrees C Humidity: 0-95%, non-condensing
<b>Agency</b>	FCC: Part 15, Subpart B - Class A, EN55022:1998 Class A and EN550024:1998. CE: safety EN 60950:1992. CSA: CAN/CSA C22.2 No 950-95, UL 1950.