

MatrixPRO™ Digital Series



8x8, 16x16 HD-SDI and 16x16 SDI Matrix Switchers

Features

- Inputs on all models meet SMPTE 259M compliance. The HD-SDI models also meet SMPTE 292M standards.
- Outputs on all models meet SMPTE 259M compliance. The HD-SDI models also meets SMPTE 292M and the SDI models also meets SMPTE 344 compliance.
- Three switching modes: Front Panel, External remote (OPTIONAL) or via MP software GUI program.
- IP (Ethernet) control standard
- Front panel lock out
- I/O grouping allows specific outputs to be grouped together.
- Vertical interval switching
- Large LCD display allows for easy navigation of menus and provides visual verification of information.
- Fully field programmable to support upgrades.
- Backed by a three-year warranty.

The MatrixPRO Digital Series offers three models of serial digital matrix switchers for routing of SDI and HDSDI video signals: 8X8, 16X16 HD-SDI and 16X16 SDI. The HD-SDI models allow users to route either HD-SDI or SDI signals. The SDI unit will only pass SDI signals. Each input and output is individually isolated. These inputs can be switched to any one or all outputs with no crosstalk or signal noise between channels. All models are SMPTE 259M compliant for inputs. The HD-SDI models are also SMPTE 292 M compliant for input sources.

Units are rack-mountable and each unit includes RS-232/485 capability. All units come standard with an easy to operate front panel interface for simple input and output selection. All units can be connected to an optional Remote Control interface for input and output selection. An Ethernet port for IP control is featured on all units.

The MatrixPRO Digital Series features the MatrixPRO grouping matrix that allows the router 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 for all HD-SDI formats. All models feature Vertical Interval Switching for all input channels.

The MatrixPRO routers are designed to work effortlessly with our other Barco Video Processing products like the Encore as well as stand-alone for custom applications.

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MatrixPRO Digital Series Specifications

VIDEO ROUTING		
	MatrixPRO-SDI	Matrix-PRO HD-SDI
Input	SMPTE 259M compliant	SMPTE 259M and 292M compliant
Output	SMPTE 259M and 344M compliant	SMPTE 259M and 292M compliant
Signal Speed	143,177,270,360 Mbps	143,177,270,360,1483.5,1485Mbps
Return Loss	-15dB @ 270 Mbps	-15dB @ 270Mbps and -15dB @ 1.485Gbps
Maximum Cable Length	350m at 270Mbps with Belden 1694A cable	100m @ 1.485Gbps, 350m at 270Mbps with Belden 1694A cable
VIDEO INPUT		
Number/signal type	8 or 16 Unbalanced serial data	
Connectors	8 or 16 BNC female	
Impedance	75 ohms	
VIDEO OUTPUT		
Number/signal type	8 or 16 Unbalanced serial data	
Connectors	8 or 16 BNC female	
Amplitude	800mV +\ - 10%	
Impedance	75 ohms	
Output Jitter	0.2 U.I (MAX)	
Switching type	Vertical Interval Switching (Input Channel 1 is Reference)	
ENCLOSURE		
Dimension	3.5"H X 17.0" W x 15"D (2U high, full rack width) 8.89 cm H x 43.2 cm W x 38.1 cm D	
Weight	17 lbs (7.6 kg)	
Shipping Weight from Factory	22 lbs (10kg)	
Rack mount	included	
Type	Metal	
GENERAL		
Environment Temperature	0-40 degrees C	
Environmental Humidity	0-95%, non-condensing	
Power Type	100-240 VAC, 47-63 Hz, auto-configuring	
Power Connector	IEC connector with integrated fuse and switch	
Power Dissipation	32 watts	
Agency	FCC:Part 15, Subpart B – Class A, EN55022:1998 Class A and EN550024:1998 CE: safety EN 60950:1992	
CONTROL / REMOTE		
Serial control port	RS-232/ RS-485, 25-pin female D connector	
Baud rate and Protocol	57600, 8-bit,1 stop bit, no parity selectable	
Ethernet	1 RJ-45 female connector, running 10/100 Base-T, half/full duplex with autodetect	
Ethernet protocol	ARP, ICMP (ping), TCP/IP, Telnet, HTTP	