

# MatrixPRO Serial digital series

The MatrixPRO Serial Digital Series offers two models for routing of SDI and HDSDI video signals.



The MatrixPRO HD-SDI model 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 can be controlled remotely with the MPR-C216. Both units come standard with an easy to operate front panel interface for simple input and output selection. Both units can also 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 Serial Digital Series features the grouping matrix that allows the router to be divided into smaller sub switchers, making for easier installation and control. 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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# Technical specifications

<b>Video Routing</b>	
<b>Input</b>	<ul style="list-style-type: none"> <li>MatrixPRO-SDI: SMPTE 259M compliant</li> <li>Matrix-PRO HD-SDI: SMPTE 259M and 292M compliant</li> </ul>
<b>Output</b>	<ul style="list-style-type: none"> <li>MatrixPRO-SDI : SMPTE 259M and 344M compliant</li> <li>Matrix-PRO HD-SDI: SMPTE 259M and 292M compliant</li> </ul>
<b>Signal Speed</b>	<ul style="list-style-type: none"> <li>MatrixPRO-SDI: 143,177,270,360 Mbps</li> <li>Matrix-PRO HD-SDI: 143,177,270,360,1483.5,1485Mbps</li> </ul>
<b>Return Speed</b>	<ul style="list-style-type: none"> <li>MatrixPRO-SDI: -15dB @ 270 Mbps</li> <li>Matrix-PRO HD-SDI: -15dB @ 270Mbps and -15dB @ 1.485Gbps</li> </ul>
<b>Maximum Cable Length</b>	<ul style="list-style-type: none"> <li>MatrixPRO-SDI: 350m at 270Mbps with Belden 1694A cable</li> <li>Matrix-PRO HD-SDI: 100m @ 1.485Gbps, 350m at 270Mbps with Belden 1694A cable</li> </ul>
<b>Video Input</b>	
<b>Number/signal type</b>	8 or 16 Unbalanced serial data
<b>Connectors</b>	8 or 16 BNC female
<b>Impedence</b>	75 ohms
<b>Video Output</b>	
<b>Connectors</b>	8 or 16 BNC female
<b>Amplitude</b>	800mV +/- 10%
<b>Output jitter</b>	0.2 U.I (MAX)
<b>Switching Type</b>	Vertical Interval Switching (Input Channel 1 is Reference)
<b>Enclosure</b>	
<b>Dimensions</b>	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
<b>Weight</b>	17 lbs (7.6 kg)
<b>Shipping Weight from Factory</b>	22 lbs (10kg)
<b>Rack mount</b>	included
<b>Type</b>	Metal
<b>General</b>	
<b>Operating temperature</b>	0-40 degrees C
<b>Environmental humidity</b>	0-95%, non-condensing
<b>Power Type</b>	100-240 VAC, 47-63 Hz, auto-configuring
<b>Power Connector</b>	IEC connector with integrated fuse and switch
<b>Power Dissipation</b>	32 watts
<b>Agency</b>	FCC:Part 15, Subpart B – Class A, EN55022:1998 Class A and EN550024:1998 CE: safety EN 60950:1992
<b>Control/Remote</b>	
<b>Serial control port</b>	RS-232/ RS-485, 25-pin female D connector
<b>Baud rate and Protocol</b>	57600, 8-bit,1 stop bit, no parity selectable
<b>Ethernet</b>	1 RJ-45 female connector, running 10/100 Base-T, half/full duplex with autodetect
<b>Ethernet protocol</b>	ARP, ICMP (ping), TCP/IP, Telnet, HTTP