

Product Spec Sheet from Rentex

Barco MatrixPRO-II 3G/HD-SDI 16x16 High-Speed Serial Router

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Rentex Product No. XVM0300



Mfr Part No. R9004661

Barco's MatrixPRO-II SD/HD/3G-SDI 16x16 high-speed serial router is compact, has an extremely slim profile, and provides an excellent solution for applications where space is at premium.

This router supports SDI formats from SD formats to 3G/HD. The superior design allows for image switching and signal distribution without artifacts. It features a genlock input with loop through, ensuring that all switching is synchronized with the house sync.

The router can be controlled from the front panel, RS-232, Ethernet connections or the Encore and ScreenPRO-II presentation systems. Barco's MatrixPRO-II SDI router allows a single unit to be subdivided into multiple layers

Detailed Specifications

Supported Signal Formats	DVB-ASI, SMPTE 259M, SMPTE 292M, SMPTE 424M; 270M bps – 2.97Gbps; 2K, 2048x1556/23.98 and 24
Inputs	Standard: SMPTE 259M / SMPTE 292M / SMPTE 424M Data rate: 270Mbps – 1.485Gbps / 2.97Gbps Connector: 75 ohm BNC female Impedance: 75 ohm nominal Return loss: > 15dB (5MHz-1.485Ghz); > 10dB (1.5GHz – 3GHz) Cable equalization: Automatic up to 70m @ 2.97Gbps, typical Belden 1694A Automatic up to 100m @ 1.485Gbps, typical Belden 1694A Automatic up to 300m @ 270Mbps, typical Belden 8281
Outputs	Connector: 75 ohm BNC female Impedance: 75 ohm nominal Return loss: > 15dB (5MHz-1.485Ghz); > 10dB (1.5GHz – 3GHz) Signal level: 800mVp-p ±10% Rise/fall time: - 20% - 80% - SD limit: 0.4ns – 1.5ns, < 0.5ns rise/fall variation; - HD limit: < 270ps, < 100ps rise/fall variation; - 3G-HD limit: < 135ps, < 50ps rise/fall variation Amplitude overshoot: < 10% Signal polarity: Non-inverting electrical with respect to inputs
Signal Speed	Timing jitter: SD: < 0.2 UI; 3G-HD/HD: <1UI Alignment jitter: SD: <0.2UI; 3G-HD/HD: <0.2UI
Control	Serial port: RS-232, DB9 connector female Ethernet port: 10/100BaseT Ethernet bus, 1x RJ45 connector