

Specifications

VN-Matrix 200 Series

Video input

Number/signal type	1 DVI-I: analog RGBHV, RGsB, HDTV component video (progressive, interlaced) or single link digital DVI (DVI-D)
Connectors	1 female DVI-I
Nominal level	1.0 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels.....	Analog: 0.0 V to 1.0 Vp-p with no offset
Impedance	75 ohms
Resolution range	640x480 to 1600x1200, 1920x1200 (with reduced blanking) @ 23.97 Hz to 85 Hz Also 525i, 625i, 720p, 1080i, 1080p
Standards.....	DVI 1.0

Video processing

Digital sampling	24 bit, 8 bits per color, 165 MHz standard
Colors	16.78 million
Compression	PURE3™ Codec
Frame rate delay.....	35 ms (70 ms encoding/decoding)
Bit rate	1 Mbps to 200 Mbps
Bit and frame rate control	Selectable
Frame rate.....	Up to 60 fps @ 1080p

Video output

Number/signal type	1 DVI-I: analog RGBHV, RGsB, or single link digital DVI (DVI-D); follows input or is scaled
Connectors	1 female DVI-I
Nominal level	0.7 Vp-p for RGB
Minimum/maximum levels.....	0.0 V to 1.0 Vp-p
Impedance	75 ohms
Scaled resolution	640x480 to 1600x1200, 1920x1200 (with reduced blanking) @ 23.97 Hz to 85 Hz Also 525i, 625i, 720p, 1080i, 1080p
Scan mode.....	Follow mode: output follows input Scale mode: set to match the resolution and frame rate of the local display

Sync

Input type	RGBHV, RGsB, bi-level component video
Output type	RGBHV
Input level	2.75 V to 5.0 Vp-p for RGBHV 0.3 Vp-p for RGsB or component video bi-level sync
Output level	TTL: 5.0 Vp-p, unterminated
Polarity.....	Positive or negative (follows input)

Audio input/output

Number/signal type	1 S/PDIF
Source formats.....	PCM encoded audio, AES/EBU
Connectors	1 RCA jack

Audio processing

Compression	Audio data is transported without compression by default. Sampling rate and bit depth decimation may be applied for uncompressed audio S/PDIF data: <ul style="list-style-type: none">• 16 bit, full sampling rate• 16 bit, half sampling rate• 16 bit, quarter sampling rate Simple run length encoding may be applied for compressed audio S/PDIF data.
Rates.....	400 kbps to 3 Mbps
Sampling rates	44.1, 48 kHz

Control/remote — local host — codec, encoder, decoder

Serial control port	
VNC 200 DVI	(2) RS-232, male 9-pin D connectors: 1 for host configuration, 1 for control of other products
All other models	(1) RS-232, male 9-pin D connector, for host configuration
Baud rate and protocol.....	115200 baud, 8 data bits, 1 stop bit, no parity, no flow control
Serial control pin configurations	1 = DCD, 2 = Rx, 3 = Tx, 4 = DTR, 5 = GND, 6 = DSR, 7 = RTS, 8 = CTS, 9 = ring
Keyboard/mouse ports	
VNC 200 DVI, VNC 200 DVI-A	2 PS/2 mouse ports (female 6-pin mini DIN): 1 input, 1 loop through 2 PS/2 keyboard ports (female 6-pin mini DIN): 1 input, 1 loop through
Ethernet control ports	2* female RJ-45

NOTE: *Only one of the two RJ-45 ports is used for data and configuration. The other port is not used.

Ethernet data rate	10/100/1000Base-T, half/full duplex with autodetect
Ethernet protocol	ICMP (ping), IP, TCP, RTP, RTCP, UDP, DHCP, HTTP, SMTP, Telnet
System control	VN-Matrix Enterprise Controller, VN-Matrix Enterprise Redundant Controller VN-Matrix Web server
Program control	Extron control/configuration software (VNM Viewer, VNM Virtual Switch) for Windows® Extron Command Line Interface (CLI) Microsoft® Internet Explorer® and other Web browsers, Telnet

Network transport

Ethernet data rate	10/100/1000Base-T, half/full duplex with autodetect
Ethernet protocol	
Streaming	RTP, RTCP
Transport	TCP, UDP (unicast or multicast)
All supported	ICMP (ping), IP, TCP, RTP, RTCP, UDP, DHCP, HTTP, SNMP V3, Telnet
Video input/output.....	PURE3™ Codec compression
Audio input/output	PCM, AC3

General

External power supply	100 VAC to 240 VAC, 50-60 Hz, external; to 12 VDC, 5 A max.
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +41 to +95 °F (5 to +35 °C) / 10% to 85%, noncondensing
Cooling.....	Fan, vented front to back
Mounting	
Rack mount.....	Yes
Enclosure type.....	Metal
Enclosure	1.75" H* x 8.5" W x 12.2" D (1U high, half rack wide) (4.4 cm H* x 21.5 cm W x 30.9 cm D) *Height with feet is 2.1" (5.3 cm). (Depth includes connectors.)
Product weight.....	4.1 lbs (1.9 kg) each
Shipping weight.....	TBD

Regulatory compliance

Safety CE, UL

EMI/EMC CE, EN60950-1

Warranty 3 years parts and labor

NOTE: All nominal levels are at $\pm 10\%$.

NOTE: Specifications are subject to change without notice.

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