

VN-DECODER-2A HIGH-PERFORMANCE 2-CHANNEL VIDEO DECODER



Product at a Glance

- ▶ Ideal companion for a Virtual Matrix Display Controller
- ▶ Part of scalable matrix control solution for small and large installations
- ▶ Decodes digital IP data streams for display on any monitor with DVI or HDMI inputs
- ▶ Create large multi-monitor displays
- ▶ Compact size fits easily in remote display areas with limited space
- ▶ Connect up to 2 monitors to each unit; add more units for multiple monitor solutions
- ▶ Supports 1080p high-definition; 16 x 9 viewing; H.264 compression
- ▶ Control can be shared by multiple operators

The Perfect Solution for VMDC Systems

The VN-DECODER-2A is a key part of the ViconNet® Virtual Matrix Display Controller (VMDC) system. Used in conjunction with the VMDC, network data is received and converted from a digital IP source to an output for display on any monitor with a DVI or HDMI input. This enables distribution directly to a monitor and offers an alternative display method to the PC-based client.

The device provides a cost-effective means to support remote or add-on viewing stations that require only live video display. Each VN-DECODER-2A supports up to two monitors, each with the ability to display up to 64 video streams on each monitor; refer to Performance chart that follows.

Full functionality of ViconNet is provided regardless of what type of monitor is used. The VN-DECODER-2A also supports monitor wall designs that are typical of large-scale video surveillance installations, such as casinos, correctional facilities, airports and hospitals.

Easy to Install and Configure

Remote management and control of the VN-DECODER-2A and the monitors they feed is done through the VMDC. This supports a flexible network topology that allows the location of the decoder where the monitors are, yet allows the location of the cameras, switches and control center to be at a different site or sites. When used at an edge location, the video can be controlled and driven by a programmable logic controller (PLC) and IP keypad. With the VMDC, the operator can route any camera on the network to any monitor connected to the VN-DECODER-2A on the network.

The VN-DECODER-2A can be conveniently mounted on a desk-top or on a VESA bracket.

Note: The VN-DECODER-2A is typically connected to a Virtual Matrix Display Controller (VMDC). Refer to the datasheet on the VMDC for detailed information.

System

Operating System:	Microsoft® Windows® 10 .
CPU:	Mini ITX board with Intel 7th generation CPU support.
Motherboard:	GA-H110TN.
Memory:	8 GB.
Operating System Drive:	500 GB SATA HDD.
Network Interface:	10/100/1000 Base T Ethernet interface on main board.
Certifications:	FCC Class A.

Video

Video Channels:	2.
Video Formats Supported:	NTSC/EIA and PAL/CCIR.
Video Transmission Rate:	Up to 30/25 fps (NTSC/PAL) per camera at full resolution**.

**For high-resolution, high-activity video, there may be a drop off in overall frame rate.

Electrical

Input Voltage:	100-240 VAC, 50/60 Hz. 19 VDC power supply provided.
Current:	7.98 A from 19 VDC power supply; 0.2 A @ 115 VAC, max.
Power Consumption:	120 W from 19 VDC power supply; 23 W @ 115 VAC.
Heat Output:	420 btu/hour @ 19 VDC; 80.5 btu/hour @ 115 VAC.
Indicators and Connectors:	Front panel LEDs: power and HDD. Power Connector: 19 VDC DIN for power supply (included). Network: RJ-45 jack. Video Out/Monitor: DVI, HDMI. eSATA. USB: 6; 2 front, 4 rear. Audio: jacks (output not currently used).
Certifications:	FCC, Class A.

Mechanical

Application:	Indoor.
Mounting:	Desk, wall, VESA.
Dimensions:	Height (H): 2.25 in. (57 mm). Width (W): 9.375 in. (238 mm). Depth (D): 8.0 in. (203 mm), including mounting flange.
Weight:	4.4 lb (2.0 kg).
Construction:	Aluminum case/aluminum extrusion.

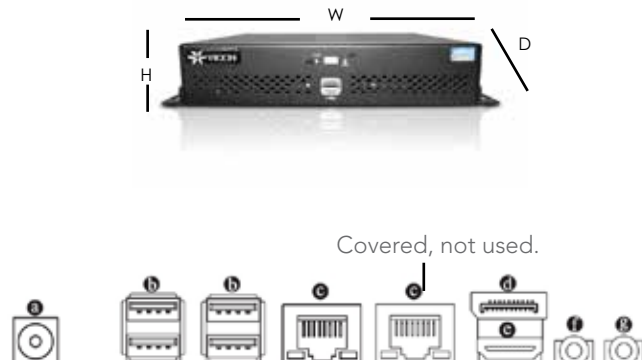
Environmental

Operating Temperature:	32° to 104°F (0° to 40°C).
Humidity:	Up to 90% relative, non-condensing.

Warranty

3 years parts and labor.

Dimensional/Connection Diagram



Connectors:

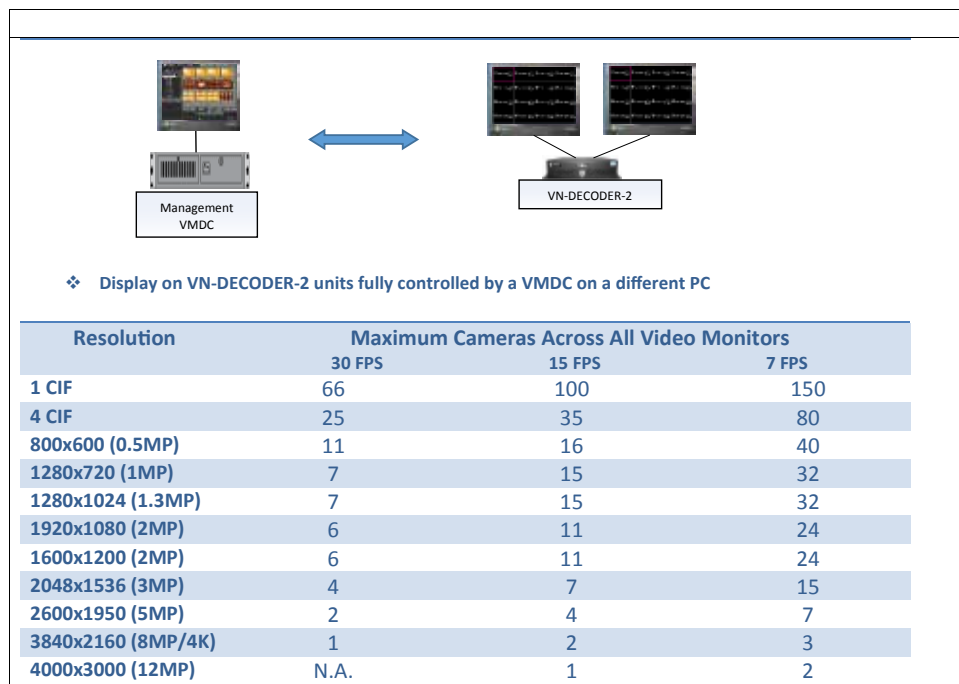
- a - DC Power Connector (Jack)
- b - USB Ports
- c - RJ-45 LAN Ports
- d - Display Port
- e - HDMI Port
- f - Line Out Jack (green)
- g - Mic In Jack (pink)

****Note that mother boards are subject to change and the current rear panel may differ slightly but will be similar.**

VN-DECODER-2A Performance*

This chart displays the approximate number of cameras the VN-DECODER-2A can support, based upon the decoding frame rate, the camera's resolution and other system parameters. These numbers will vary depending on the specifics of each system.

Systems with a dedicated management VMDC controlling VN-DECODER-2



*Note: These numbers are different from the VMDC-2 due to differences in hardware.