



V422-VI and V422-VI-230 RS-422 to Vicoax Translator

- **Allows RS-422 (NOVA) control devices to communicate with 16 Vicoax receivers/cameras per unit**
- **Rack mountable**
- **Easy connection with RJ-45 connectors**

Vicon's V422-VI is an RS-422 to Vicoax translator that allows an RS-422 control to communicate with up to 16 Vicoax receivers. Up to 16 V422-VIs are DIP switch addressable and can be cascaded to address up to a maximum of 256 Vicoax receivers/cameras. In the event of a failure in the V422-VI, a fail safe circuit allows the control to communicate to the next RS-422 receiver.

The V422-VI receives RS-422 messages, through a rear panel RJ-45 connector and a termination box, from a control, like the V1500, V1400, V1422, V1466, V1344, AurorA2000 and AurorAcorD. See Figure 1. The RS-422 messages are typically commands for AUX, pan-and-tilt, and camera functions (focus, iris, zoom, etc). The V1422-VI also sends RS-422 status messages back to the control. The V422-VI sends and receives Vicoax messages, through BNC connectors, to receivers, like Surveyor, V1311RB and V1305R-DC. The Vicoax messages for both send and receive are RS-422 command and status messages reformatted embedded signal to the receiver camera's video. The V422-VI is available with 120 VAC, Model V422-VI, or 230 VAC input, Model V422-VI-230. The term V422-VI is used to refer to both models unless specifically stated otherwise.

The V422-VI meets FCC requirements for a Class A device.

ASSOCIATED EQUIPMENT AND ACCESSORIES

Model AurorA2000 Series of Digital Video Multiplexers: Allows up to 16 cameras, color or monochrome, to be recorded on one VCR. Product Specification V040.

Model AurorAcorD Series Multiplexer and Digital Video Recorder: Records and stores video from up to 16 cameras on a hard drive. Product Specification V091.

Model V1305R-DC Series Receiver: Provides variable-speed control of ViStar pan-and-tilt drives. May be used with NOVA or a Vicoax II control system. Product Specification 992.

Model Surveyor2000 Camera Dome Systems: A compact intelligent security device that includes camera, pan/tilt drive, receiver and CPU-based electronics. Product Specification V031.

Contractors' Specification

RS-422 to Superimposed Data on Composite Video Signal Translator

The translator shall allow an RS-422 control to communicate with up to 16 receivers that use superimposed data on composite video signals. A maximum of 256 addressable (in groups of 16 per translator) receivers/cameras can be in a system. Connection shall be through RJ-45 connectors with termination boxes. It shall have fail safe circuitry so that in the event that one translator fails, communication shall not be stopped.

The translator shall be Vicon Model V422-VI, 120 VAC, or V422-VI-230, 230 VAC.

Technical Information

ELECTRICAL

Input Voltage: V422-VI: 120 V, 60 Hz.
V422-VI-230: 230 V, 50 Hz.

Current: 75 mA @ 120 VAC.
38 mA @ 230 VAC.

Power Consumption: 9 W.

Heat Equivalent: 0.5 btu/min (0.13 kg-cal/min).
Note: These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of the heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

Line Cord: Standard 3-conductor SV No. 18 AWG cable with grounding plug.

Fuse: 120 VAC: 250 V, 0.25 A, slo-blo
230 VAC: 250 V, 0.125 A, slo-blo.

Radio Frequency Emission Rating: FCC Class A.

CONTROLS & CONNECTORS

Active (LED): Red front panel LED indicates power condition.

Power: Rear panel 120 or 230 VAC grounded female connector.

DIP Switch: 4-pole DIP switch used to set an address for up to 16 V422-VIs (in groups of 16 camera/receivers up to a possible 256).

Control Station: RJ-45, RS-422 IN and OUT.

Video: BNCs, IN and OUT; high impedance input/output loop out.

OPERATIONAL

General: Unit is operated using external control system.

Control Format: Converts RS-422 protocol to Vicoax protocol (superimposed digital data on video). Supports simplex or half duplex at 4800 baud rate.

MECHANICAL

Application: Indoor

Mounting: Rack mount.

Dimensions: Height: 1.7 in. (43 mm).
Width: 19.0 in. (483 mm).
Depth: 7.0 in. (178 mm).

Weight: 6.5 lb (2.9 kg).

Shipping Dimensions: Height: 4.0 in. (102 mm).
Width: 20.0 in. (508 mm).
Depth: 12.0 in. (305 mm).

Shipping Weight: 8.2 lb (3.7 kg)

Construction: Steel chassis and cover.

Finish: Black baked enamel chassis and cover.

ENVIRONMENTAL

Operating Temperature Range: 32 to 104° F (0 to 40° C).

Operating Humidity Range: Up to 90% relative, noncondensing.

Storage Temperature Range: -40 to 150° F (-40 to 65° C).

Storage Humidity Range: Up to 90% relative, noncondensing.

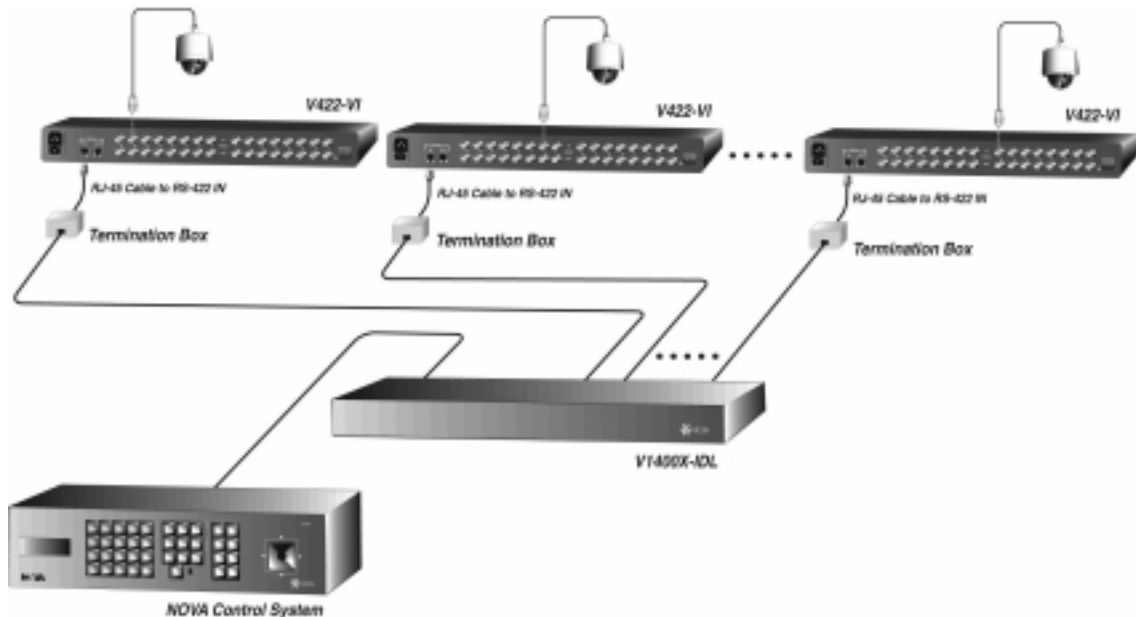
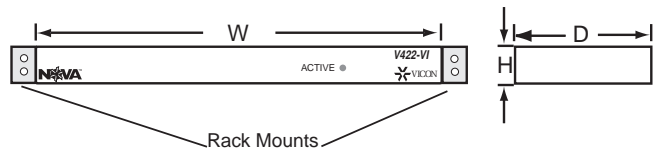


Figure 1: Typical Connection Diagram