

PRODUCT SPECIFICATION

MODEL: V500-NVT, V1000-NVT, V2000-NVT

PRODUCT CODE: REFER TO TABLE 1

DESCRIPTION: TWISTED-PAIR VIDEO

TRANSMISSION SYSTEM

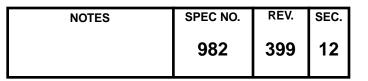
Compact and lightweight units

 Choice of passive (no power required) or active (power required) types

 Utilizes existing twisted-pair wires for video signal transmission

Surface mount ready for easy installation

Vicon's line of twisted pair video transmission systems consist of receiver/transmitter pairs that offer video signal transmission capability over a simple twisted-pair wire for distances up to 2000 ft (610 m). The V500-NVT and V1000-NVT are also capable of transmitting Vicoax data. The V2000-NVT also has built-in ground loop isolation. Each device provides a standard BNC connector for video device input or output and a set of terminal block screws for unit input or output. The active unit types require 12 to 24 VAC or VDC and draw very little current (about 50 mA). Refer to Table 1 for specific unit descriptions.





V500-NVT, V1000, V2000-NVT TRANSMISSION SYSTEMS

CONTRACTORS' SPECIFICATION

TWISTED-PAIR VIDEO TRANSMISSION SYSTEMS

500-ft Model

The 500-foot (152 meter) distance transceiver pair shall be used to transmit and receive baseband video signals over a standard twisted-pair wire set. The ports connected to external video devices shall be a BNC female type with a nominal impedance of 100 ohms (designed to be used with standard 75 ohm coaxial cable). The ports connecting the transceiver pair shall be screw terminals with a nominal impedance of 52 ohms per 1000 feet with 24 AWG wire. The supported baseband video formats shall be NTSC, PAL, EIA, CCIR, RGB and S-video types (RGB and S-video require separate paths for each component signal). The transmission distance shall be 500 feet (152 meters) and it shall be used indoors only within the operating temperature range of 32 to 167F (0 to 75C) at up to 95% relative, noncondensing humidity. The outline dimensions of both shall be no grater than 3.0 inches (7.6 cm) in length by 1.5 inches (3.9 cm) in width, 1.1 inches (2.8 cm) in height and 0.2 lb (0.09 kg) in weight. They shall be constructed of ABS plastic and use stainless steel hardware. They shall be surface mounted using two mounting holes. The 500-foot (152 meter) distance transceiver pair shall be Vicon's V500-NVT model.

1000-ft Model

The 1000-foot (304 meter) distance transceiver pair shall be used to transmit and receive baseband video signals over a standard twisted-pair wire set. The ports connected to external video devices shall be a BNC female type with a nominal impedance of 100 ohms (designed to be used with standard 75 ohm coaxial cable). The ports connecting the transceiver pair shall be screw terminals with a nominal impedance of 52 ohms per 1000 feet with 24 AWG wire. Each unit shall have a grounding screw terminal. The supported baseband video formats shall be NTSC, PAL, EIA, CCIR, RGB and S-video types (RGB and S-video require separate paths for each component signal). The transmission distance shall be 1000 feet

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CONTRACTORS' SPECIFICATION (continued)

(304 meters) and it shall be used indoors only within the operating temperature range of 32 to 167F (0 to 75C) at up to 95% relative, noncondensing humidity. The outline dimensions of both shall be no grater than 3.0 inches (7.6 cm) in length by 1.5 inches (3.9 cm) in width, 1.1 inches (2.8 cm) in height and 0.2 lb (0.09 kg) in weight. They shall be constructed of ABS plastic and use stainless steel hardware. They shall be surface mounted using two mounting holes. The 1000-foot (304 meter) distance transceiver pair shall be Vicon's V1000-NVT model.

2000-ft Model

The 2000-foot (610 meter) distance transceiver pair shall be used to transmit and receive baseband video signals over a standard twisted-pair wire set. The ports connected to external video devices shall be a BNC female type with a nominal impedance of 100 ohms (designed to be used with standard 75 ohm coaxial cable). The ports connecting the transceiver pair shall be screw terminals with a nominal impedance of 52 ohms per 1000 feet with 24 AWG wire. Each unit shall have a grounding screw terminal. One unit shall be powered with 12-24 VAC/VDC, draw approximately 50 mA and dissipate approximately 0.6-1.2 watts. The supported baseband video formats shall be NTSC, PAL, EIA, CCIR, RGB and S-video types (RGB and S-video require separate paths for each component signal). The transmission distance shall be 2000 feet (610 meters) and it shall be used indoors only within the operating temperature range of 32 to 167F (0 to 75C) at up to 95% relative, noncondensing humidity. The outline dimensions of both shall be no grater than 3.0 inches (7.6 cm) in length by 1.5 inches (3.9 cm) in width, 1.1 inches (2.8 cm) in height and 0.2 lb (0.09 kg) in weight. They shall be constructed of ABS plastic and use stainless steel hardware. They shall be surface mounted using two mounting holes. The 2000-foot (610 meter) distance transceiver pair shall be Vicon's V2000-NVT model.

Table 1 V500-NVT, V1000-NVT and V2000-NVT Model Versions

Model Number	Product Code	Package	Туре	Transmission Distance (max) feet (meters)
V500-NVT	6252-00	Surface mount	Passive	500 (152)
V1000-NVT	6253-00	Surface mount	Passive with ground screw	1000 (304)
V2000-NVT	6254-00	Surface mount	Active with ground screw	2000 (610)

TECHNICAL INFORMATION

ELECTRICAL VIDEO

50 mA typical.

Current Drain:

V2000-NVT only Video Impedance

> (BNC Connector): 100 +/- 15% ohms (designed to be

> used with standard 75 ohm coaxial Input Voltage: 12 - 24 VAC or VDC.

cable).

Video Impedance

(Screw Terminals): 52 ohms nominal per 1000 ft with Power Consumption: 0.6 to 1.2 W.

24 AWG wire.

0.03 to 0.07 btu/min Heat Equivalent: Maximum Video (0.009 to 0.02 cal/min).

Transmission Distances (Screw Terminals): V500-NVT: 500 ft (152 m). Note: These figures represent the

V1000-NVT: 1000 ft (304 m). conversion of 100% of the electrical V2000-NVT: 2000 ft (610 m). energy to heat. Actual percentage of the heat generated will be less and

will vary from product to product. **CONNECTORS** These figures are provided as an aid in determining the extent of cooling

Connector Types: Video: BNC-F. required for an installation. Power (V2000-NVT): screw terminal

block **LED Indicators:**

Ground (V1000-NVT/V2000-NVT): Red indicates power is applied. Amber screw.

indicates video signal is present.

2 Spec. No. 982

MECHANICAL

ENVIRONMENTAL

Application: Indoor.

Mounting: Surface mount, two 0.175 in

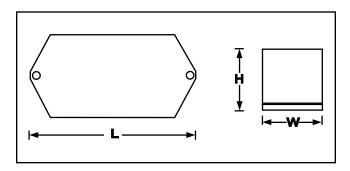
(0.4 cm) diameter holes about 2.5 in

(6.4 cm) apart.

Dimensions

(Excluding BNC): Height (H): 1.1 in. (2.8 cm).

Width(W): 1.5 in. (3.9 cm). Length (L): 3.0 in. (7.6 cm).



Weight: 0.2 lb (0.09 kg).

Construction: ABS plastic body, steel hardware.

Finish: Black.

Shipping Dimensions:* Height: 2.8 in. (7.1 cm).

Width: 3.5 in. (8.9 cm). Length: 5.5 in. (14.0 cm).

Shipping Weight: 0.6 lb. (0.3 kg).

Shipping Volume: 0.03 ft³ (0.0008 m³).

*Note: Units are shipped in pairs.

Operating

Temperature: 32 to 167° F (0 to 75° C).

Operating

Humidity Range: Up to 95% relative, noncondensing.

Storage

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

Storage

Humidity Range: Up to 95% relative, noncondensing.

Transient Immunity: V500-NVT: 20 KV at 200 pf capacitance.

V1000-NVT and V2000-NVT: 6 KV, 1.2E10-6 sec, x 50E10-6 sec, 3000A 8E10-6 sec x 20E10-6 sec per ANSI/IEEE 587 C62.41 B3.

TECHNICAL INFORMATION

VIDEO

ELECTRICAL

V2000-NVT only

Input Voltage: 12 - 24 VAC or VDC.

Current Drain: 50 mA typical.

Power Consumption: 0.6 to 1.2 W.

Heat Equivalent: 0.03 to 0.07 btu/min

(0.009 to 0.02 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.

LED Indicators: Red indicates power is applied.

Amber indicates video signal is pre-

sent.

Video Impedance

(BNC Connector): 100 +/- 15% ohms (designed to be

used with standard 75 ohm coaxial

cable).

Video Impedance

(Screw Terminals): 52 ohms nominal per 1000 ft with

24 AWG wire.

Maximum Video

Transmission Distances

(Screw Terminals): V500-NVT: 500 ft (152 m).

V1000-NVT: 1000 ft (304 m) . V2000-NVT: 2000 ft (610 m).

CONNECTORS

Connector Types: Video: BNC-F.

Power (V2000-NVT): screw terminal

olock

Ground (V1000-NVT/V2000-NVT):

screw.

MECHANICAL

Application: Indoor.

Mounting: Surface mount, two 0.175 in

(0.4 cm) diameter holes about 2.5 in

(6.4 cm) apart.