

Quality video over ordinary telephone wire...®

Model NV-518A Dual Video/Audio Transceiver



Features:

- ▶ Dual full-motion monochrome or color video and audio
- ▶ Distances up to 3,000ft (1km) when used with a passive transceiver
- ▶ Exceptional interference rejection
- ▶ Built-in transient protection & ground lifting
- ▶ Built-in brightness & sharpness controls, Power LED, and Active LED
- ▶ BNC, 1/4" Phone and RJ-45 jack connections
- ▶ May be used as a repeater for one way video/audio applications
- ▶ Limited lifetime warranty

The NVT Model NV-518A Dual Video/Audio Transceiver contains one amplified receiver that allows transmission of real-time monochrome or color video and audio over Unshielded Twisted-Pair (UTP) telephone wire. An additional passive port is included allowing the support of bi-directional video, or as a second receive path up to 1,000ft (300m). Alternately, the ports may be combined to allow the NV-518A to function as a repeater. Baseband (composite) signals of any type are supported.

Applications include Security/Surveillance, Video Distribution, Video Conferencing, or Distance Learning.

The unparalleled interference rejection and low emissions of the Model NV-518A allow video signals to co-exist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of a shared or existing cable plant. Video signals traveling in opposite directions in the same wire bundle are limited to 1,000ft (300m) over Category 2 or 3, and 2,000ft (600m) over Category 5 or better wire.

The NV-518A comes with an RJ-45 patch-cord and power supply. For rack-mounting, use the NV-518AR with the NV-RM15 rack system.

Network Video Technologies

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Technical Specifications

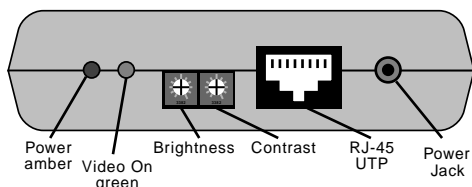
Video

Attenuation				
DC to 5 MHz	0.5	dB	typ	
Common-mode rejection				
15 KHz to 5 MHz	60	dB	typ	
Impedance				
Coax, female BNC	75	ohms		
UTP, RJ-45 jack	100	ohms		

Audio

Attenuation				
20 Hz to 20 KHz	1.5	dB	typ	
Impedance	600	ohms		
Signal: Line Level	+4	dBm	max	

Gain equalization settings



LED Indicators

Power LED Amber
Active LED Green On when "path" a" signal received

Wire Type

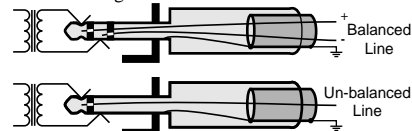
Network Wiring	Four Unshielded Twisted Pairs
	24 - 16 AWG (0,5-1,31mm)
Category Type	2 or better
Impedance	100 ± 20 ohms
DC Loop Resistance	52 ohms per 1,000ft (18 ohms per 100m)
Differential Capacitance	19 pF/ft max (62 pF/m max)
Wire Length	path "a" 3,000ft (1 km)
	path "d" 1,000ft (300m)
	when connected to a passive transceiver

** Video signals traveling in opposite directions in the same wire bundle are limited to:
1,000ft (300m) over Category 2 or 3
2,000ft (600m) over Category 5 or better wire

Connector Interfaces

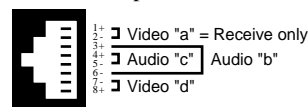
Video Female BNC jacks
Audio 1/4 in (6mm) Phone jack
Tip = "+" Ring = "-" Sleeve = no connection

use either wiring:



Twisted-pair interface

RJ-45 non-keyed jack wired for four twisted-pairs, as shown:



3ft (0,9m) RJ-45 patch cord included

Power

Requirement 12 to 24 VAC/DC 100 mA
(may be delivered through an additional twisted-pair)

Coaxial low-voltage power jack, 2,1 mm
Power Transformer 12VAC, 300mA, included

Environmental

Temperature	0 to +50°C
Humidity (non-condensing)	0 to 95%
Transient Immunity	6,000 V 1.2µS x 50 µS
per ANSI / IEEE 587 C62.41 B3	3,000 A 8µS x 20 µS

Mechanical

Dimensions, excluding connectors	5.75 x 3.60 x 1.15in (146 x 91,4 x 29,2 mm)
Weight	
Transceiver alone	9 oz (250 g)
With transformer and patch cord	16 oz (450 g)
Material	Gray ABS
Mounting	Two 3M Dual Lock™ adhesive strips

Specifications subject to change without notice.

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