

*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 another NV-518A**
- ▶ **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**
- ▶ **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 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.

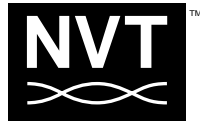
Applications include Security/Surveillance, Video Distribution, Video Conferencing, or Distance Learning.

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 over Category 2 or 3, and 2,000ft over Category 5 wire.

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

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**NV-518A**



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# Model NV-518A Video/Audio Transceiver

## Technical Specifications

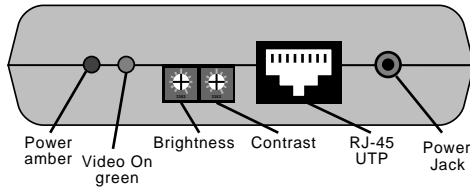
### Video

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, Screw Terminals	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

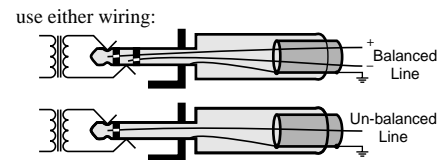
- Power LED Amber
- Active LED Green On when "path" a" signal received

### Wire Type

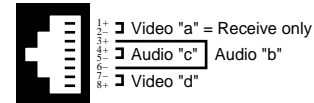
Network Wiring	Four Unshielded Twisted Pairs
	24 AWG (0,5mm) or thicker
Category Type	2 or better
Impedance	100 ± 20 ohms
DC Loop Resistance	52 ohms per 1,000ft (18 ohms per 100m)
Differential Capacitance	19 pF/ft max (62 pF/m max)
Wire Length	path "a" 3,000ft (1km) path "d" 1,000ft (300m)
	when connected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

### Connector Interfaces

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



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 1.15 in (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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