



Quality video over ordinary telephone wire...®

Model NV-418A Dual Passive Video/Audio Transceiver



Features:

- ▶ **Dual Full-motion monochrome or color video and audio at distances up to:**
 - 1,000ft (300m) when used with another NV-418A**
 - 3,000ft (1km) when used with an active receiver such as the NV-518A**
- ▶ **No power required**
- ▶ **Exceptional interference rejection**
- ▶ **Supports "up-the-coax" type control signals**
- ▶ **RJ-45 and RCA jack connections**
- ▶ **Limited lifetime warranty**

The NVT Model NV-418A Dual Video/Audio Transceiver is a passive (non-amplified) device that allows transmission of real-time monochrome or color video over Unshielded Twisted-Pair (UTP) telephone wire. 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-418A 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. Up-the-coax type signal may be sent over the same wire pair.

The NV-418A comes with an RJ-45 patch-cord. For Rack-mounting, use the NV-418AR.

Network Video Technologies, Inc.
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NV-418A



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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, Screw Terminals	100	ohms		

Audio

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

Wire Type

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

Connector Interfaces

Video, Audio Female RCA jacks
Twisted-pair interface
RJ-45 non-keyed jack wired for four twisted-pairs, as shown:



3ft (0.9m) RJ-45 patch cord included

Power

No external power required

Environmental

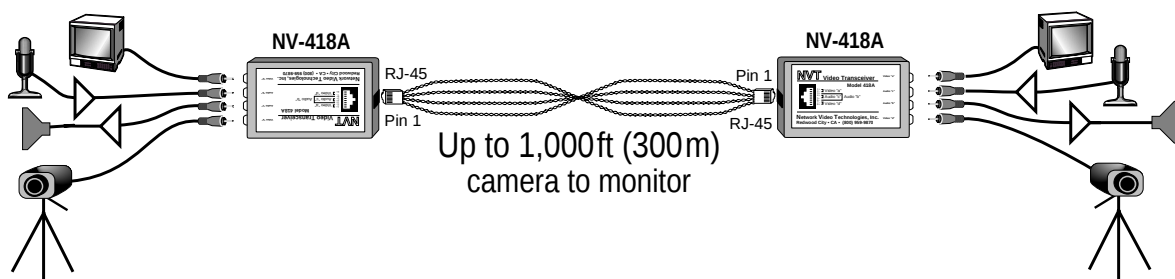
Temperature	-20 to +75°C
Humidity (non-condensing)	0 to 95%
ESD Susceptibility (200 pf probe)	20 KV

Mechanical

Dimensions	3.75 x 2.50 x 0.40 in (95,2 x 63,5 x 10,1 mm)
Weight	4.0 oz (113 g)
Material	Gray ABS
Mounting	Two 3M Dual Lock™ adhesive strips

Specifications subject to change without notice.

Typical Application



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411-24-1-I

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