



*Quality video over ordinary telephone wire...®*

## Model NV-314A Passive Video/Audio Transceiver



### Features:

- ▶ **Full-motion monochrome or color video and audio at distances up to:**
  - 1,000ft (300m) when used with another passive transceiver**
  - 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-314A 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, or Distance Learning.

The unparalleled interference rejection and low emissions of the Model NV-314A 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-314A comes with an RJ-45 patch-cord. For Rack-mounting, use the NV-418AR (which contains hardware equivalent to two NV-314As) with the NV-RM15 rack system.

Network Video Technologies  
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# Model NV-314A Passive Video 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, RCA jack	75	ohms	
UTP, RJ-45 jack	100	ohms	

### Audio

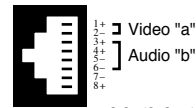
Attenuation			
20 Hz to 20 KHz	1.5	dB	typ
Impedance	600	ohms	
Signal: Line Level	+4	dBm	max

### Wire Type

Network Wiring	Two 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 1,000 ft
(24AWG)	(18 ohms per 100 m)
Differential Capacitance	19 pF/ft max
	(62 pF/m max)
Wire Length	see below

### Connector Interfaces

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



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

### Power

No external power required

### Environmental

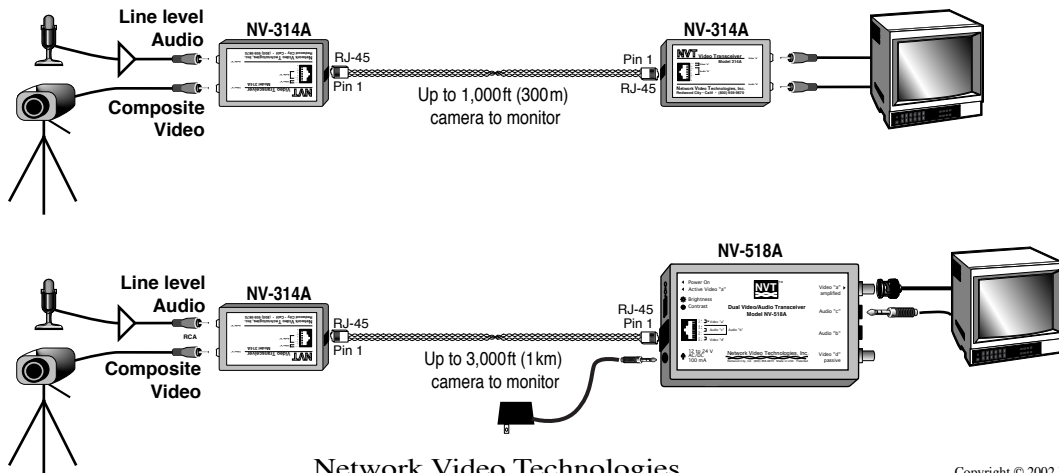
Temperature	-20 to +75 C
Humidity (non-condensing)	0 to 95%
ESD Susceptibility (200 pf probe)	20 KV

### 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 Applications



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