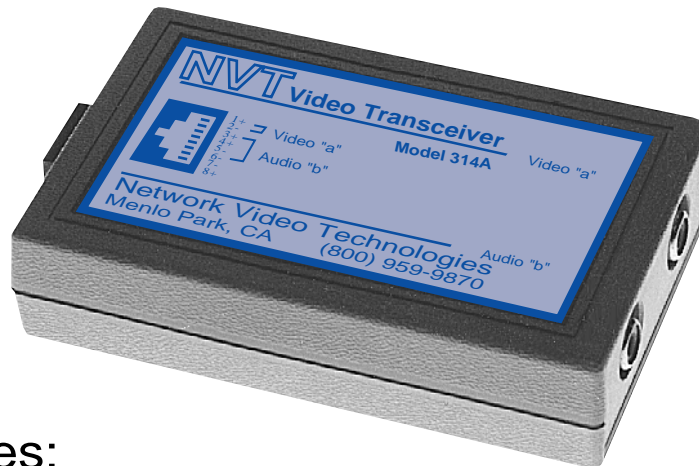


Quality video over ordinary telephone wire... ®

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
- ▶ Built-in transient protection
- ▶ 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 and audio over Unshielded Twisted-Pair (UTP) telephone wire. Baseband (composite) signals of any type are supported.

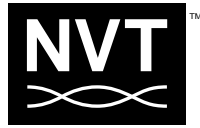
Applications include Security/Surveillance, Video Distribution, or Distance Learning.

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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Quality video over ordinary telephone wire...®

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:



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%
Transient Immunity per ANSI / IEEE	587 C62.41

Mechanical

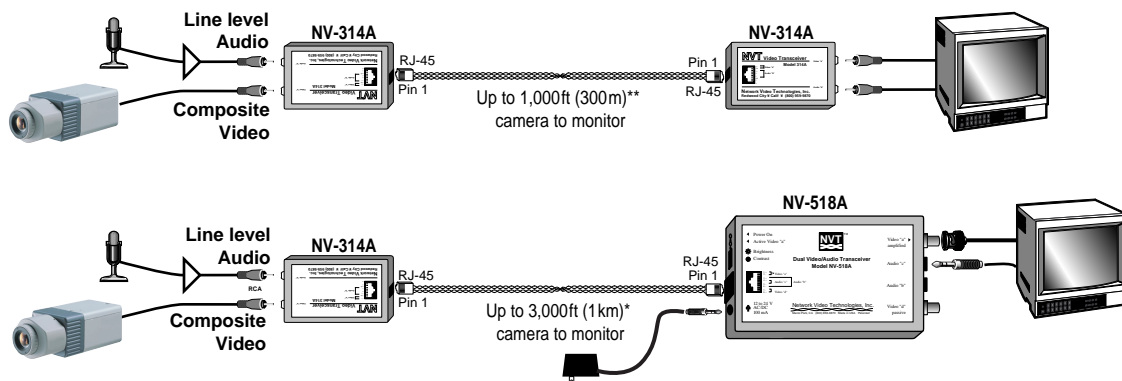
Dimensions	3.75 x 2.50 x 0.40in (95,2 x 63,5 x 10,1 mm)
Weight	4.0 oz (113 g)
Material	Gray ABS
Mounting	Two 3M Dual Lock™ adhesive strips

* Video signals traveling in opposite directions may co-exist in the same wire bundle up to 1,000 ft (300m), 2,000ft (600m) if Cat. 5 or better is used.

** For Digital Recording applications, it is recommended that Passive to Passive transmission (Example: NV-314A to NV-314A) distances be limited to no more than 750 ft. For distances greater than 750 ft. please use an NVT Active Receiver product like the NV-518A.

Typical Applications

Specifications subject to change without notice.



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