

Model NV-314A Passive Video/Audio Transceiver



# Features:

- Full-motion monochrome or color video and audio at distances up to:
  - 750ft (225m) 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
- RJ45 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 RJ45 patch-cord. For rack-mounting, use the NV-418AR (which contains hardware equivalent to two NV-314As) with the NV-RM15 rack system.

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# Model NV-314A

Passive 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, RCA jack UTP, RJ45 jack	75 ohms 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 WiringTwo Unshielded Twisted Pairs<br/>24-16 AWG (0,5-1,31mm)Category type2 or betterImpedance100 ± 20 ohmsDC loop resistance52 ohms per 1,000ft<br/>(18 ohms per 100m)Differential capacitance19 pF/ft max<br/>(62 pF/m max)Wire lengthsee below

#### **CONNECTOR INTERFACES**

Video, Audio Twisted pair interface Female RCA jacks RJ45 non-keyed jack wired for two twisted-pairs, as shown:



3ft (0,9) RJ45 patch cord included

# POWER

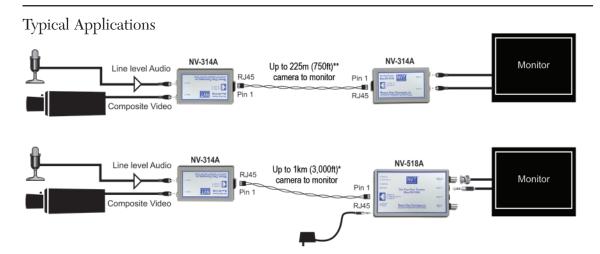
No external power required

## ENVIRONMENTAL

Ambient temperature Humidity (non-condensing) Transient Immunity	-20 to +75 °C 0 to 95% per ANSI / IEEE 587 C62.41
MECHANICAL	
Dimensions	3.78 x 2.43 x 0.90in

Bimonololio	(96 x 61.72 x 22.9mm)
Weight	4.0oz (113g)
Material	Gray ABS
Mounting	Two 3M Dual Lock $^{\!\!\mathrm{M}}$ adhesive strips

Specifications subject to change without notice.



\*Video signals traveling in opposite directions may co-exist in the same wire bundle up to 1,000 ft (300m), 2,000ft (600m) if Cat5 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.

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