



Model NV-418A

Dual Passive Video/Audio Transceiver



Features:

- Dual Full-motion monochrome or color video and audio at distances up to:
 - 750ft (225m) when used with another NV-418A
 - 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-418A Dual 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, 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 RJ45 patch-cord. For rack-mounting, use the NV-418AR with the NV-RM15 rack system.

Network Video Technologies
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Model NV-418A

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Technical Specifications

VIDEO

Attenuation DC to 5 MHz	0.5 dB typ
Common-mode / Differential-mode rejection 15 KHz to 5 MHz	60 dB typ
Impedance Coax, RCA jack	75 ohms
UTP, RJ45 jack	100 ohms

AUDIO

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

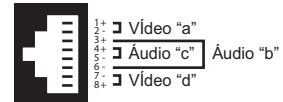
WIRE TYPE

Network Wiring	Four Unshielded Twisted Pairs 24-16 AWG (0,5-1,31mm) 2 or better
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	750ft (225m)

CONNECTOR INTERFACES

Video, Audio
Twisted pair interface

Female RCA jacks
RJ45 non-keyed jack wired
for four twisted-pairs, as shown:



3ft (0,9) RJ45 patch cord included

POWER

No external power required

ENVIRONMENTAL

Ambient temperature -20 to +75 °C
Humidity (non-condensing) 0 to 95%
Transient immunity per ANSI / IEEE 587 C62.41

MECHANICAL

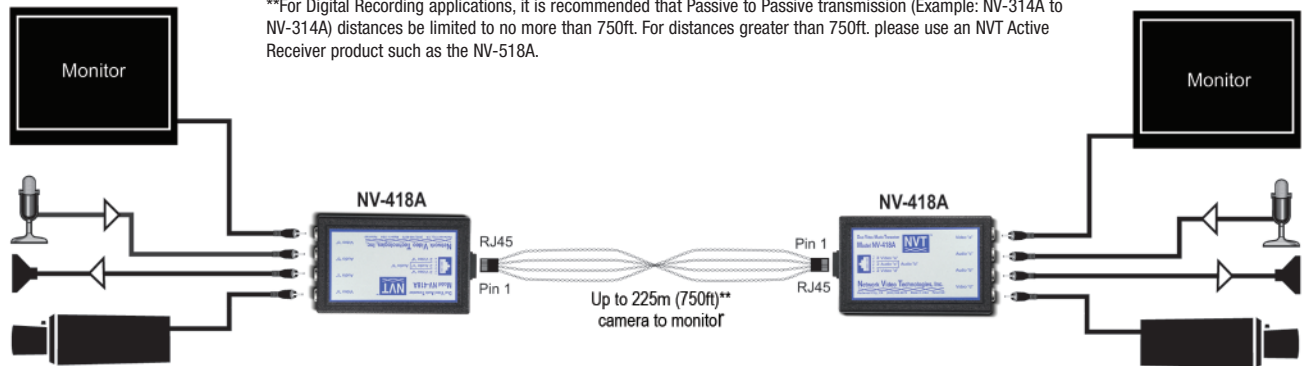
Dimensions 3.78 x 2.43 x 0.90in
(96 x 61.72 x 22.9mm)
Weight 4.0oz (113g)
Material Black ABS
Mounting Two 3M Dual Lock™ adhesive strips

Specifications subject to change without notice.

Typical Application

*Video signals traveling in opposite directions may co-exist in the same wire bundle up to 1,000ft (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 750ft. For distances greater than 750ft, please use an NVT Active Receiver product such as the NV-518A.



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