

# Model NV-418AR

## **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 or NV-418AR
  - 3,000ft (1km) when used with an active receiver such as the NV-518A or NV-518AR
- No power required
- · Built-in transient protection
- · Exceptional interference rejection
- · Supports "up-the-coax" type control signals
- RJ45, BNC and 1/4" TRS
- · Limited lifetime warranty

The NVT Model NV-418AR Dual Video/Audio Transceiver is a rack-mount 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-418AR 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-418AR card slides into the NV-RM15 chassis. For stand alone applications, use the NV-418A.

## **Network Video Technologies**

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# Model NV-418AR

## **Dual Video/Audio Transceiver**

# **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

### LED INDICATORS

Power LED Amber Active LED Green

When path "a" signal received

#### **WIRE TYPE**

Network Wiring
Four Unshielded Twisted Pairs
24-16 AWG (0,5-1,31mm)
Category type
Impedance
DC loop resistance
DC loop resistance
Differential capacitance
Differential capacitance
Unship per 1,000ft
(18 ohms per 1,000ft)
19 pF/ft max
(62 pF/m max)
Wire length
Differential capacitance
path "a" 3,000ft (1km)

path "d" 750ft (225m) When connected to a passive transceiver

\*\*Video signals traveling in opposite directions in the same wire

bundle are limited to:

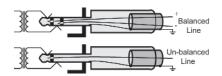
1,000ft (300m) over Category 2 or 3 2,000ft (600m) over category 5 or better wire

# CONNECTOR INTERFACES

Video Female BNC jacks Audio 1/4in (6mm) phone jack

Tip= "+" Ring= "-" Sleeve= no connection

Use either wiring:



Twisted pair interface

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



3ft (0,9) RJ45 patch cord included

#### POWER

No Power Required

#### **ENVIRONMENTAL**

### **MECHANICAL**

Dimensions, excluding connectors 5.75 x 3.60 x 1.15in (146 x 91,4 x 29,2mm)

Weight

Transceiver alone 9oz (250g)
With transformer and patch cord 16oz (450g)
Material Gray ABS
Mounting Two 3M Dual Lock™ adhesive strips

Specifications subject to change without notice.