



Quality video over ordinary telephone wire...®

Model NV-452R 4-Channel Video Receiver



Features:

- ▶ **Four active receiver channels in one product**
- ▶ **Full-motion monochrome or color video at distances up to: 3,000ft (1km) when used with NV-213A(-M), NV-413A, NV-813A, NV-1613A or NV-3213A**
5,280ft/1 mile (1,6km) when used with NV-653T transmitter and Cat-2 or 3 wire
8,000ft/ 1.5 miles (2,4km) NTSC when used with NV-653T and Cat-5 wire
- ▶ **Built-in transient protection & ground lifting**
- ▶ **Built-in brightness & sharpness controls; blue power LED, green active LED**
- ▶ **Compatible with qualified UTP cameras**
- ▶ **Two NV-452Rs may be rack mounted using the NV-RM8/10 Rack Panel Kit**
- ▶ **Limited lifetime warranty**

The NVT Model NV-452R 4-Channel Video Receiver is an active (amplified) device that allows the transmission of real-time monochrome or color video on up to one mile (1,6km) using Category-2 or 3 Unshielded Twisted Pair (UTP) telephone wire, or up to 1.5 miles (2,4km) NTSC using Category-5.

The unparalleled interference rejection and low emissions of the Model NV-452R allow long run video signals to co-exist in the same wire bundle as telephone, datacom, or low-voltage power circuits. This allows the use of shared or existing cable plant. Ground-lifting ensures no annoying "hum-bars" when ground potential differences exist. With built-in transient protection, damaging voltage spike problems are eliminated.

Network Video Technologies
1755 E. Bayshore Road, Suite 8B • Redwood City, CA • 94063 • USA
(+1) 650.562.0600 • 800.959.9870 • FAX (+1) 650.365.9575
email:info@nvt.com • www.nvt.com



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Technical Specifications

Video

Frequency response DC to 5 MHz
 Adjustable Brightness & Sharpness Controls
 Common-mode / Differential-mode rejection
 15 KHz to 5 MHz 60 dB typ
 Impedance
 Coax, female BNC 75 ohms
 UTP, Screw Terminal Block or RJ-45 100 ohms

LED Indicators

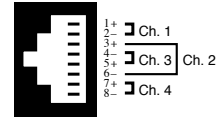
Blue "Power-On"; Green "Active" signal present

Wire Type

Network Wiring One Unshielded Twisted Pair
 (for each video signal)
 24 - 16 AWG (0,5-1,31mm)
 Category Type 2 or better
 Impedance 100 ± 20 ohms
 DC Loop Resistance (24AWG) 52 ohms per 1,000 ft
 (18 ohms per 100 m)
 Differential Capacitance 19 pF/ft max
 (62 pF/m max)
 Wire Length See chart below*

Connectors

Use either terminal block or RJ-45 (not both)



Power

24 VAC / DC (transformer not included) 250 mA max
 One floating power supply may power multiple NV-452R Receivers

Environmental

Temperature 0 to +50 C
 Humidity (non-condensing) 0 to 95%
 Transient Immunity 6,000 V 1.2µS x 50µS
 per ANSI / IEEE 587 C62.41 B3 3,000 A 8µS x 20µS
 when ground screw terminal is bonded to earth-ground

Mechanical

Dimensions, including connectors 7.3 x 2.35 x 1.65in (184 x 60 x 41mm)
 Weight 0.71lb (0.32kg)
 Material Black ABS
 Mounting Two 0.175in (4,4mm) diameter holes
 6.75in (171,5mm) apart

Two NV-452Rs can be mounted to an NV-RM 8/10 Rackmount Panel

Specifications subject to change without notice.

Product Selection Chart

Distance	Transmitter Model	Ext. Power Required	Receiver Model	Ext. Power Required	Ground Lifting	Transient Protection
0 to 500ft (0 to 150m)	NV-212A Video TransceiverNo or Qualified OEM Camera†.....Yes	No	NV-212A Video Transceiver.....No	No	No	No, not for inter-building use
0 to 750ft (0 to 225m)	NV-212A Video Transceiver.....No	No	NV-413A 4-Port Passive TransceiverNo or NV-813A 8-Port Passive HubNo or NV-1613A 16-Port Passive HubNo or NV-3213A 32-Port Passive HubNo	No	No	No, not for inter-building use
0 to 1,000ft** (0 to 300m)	NV-213A Video TransceiverNo or NV-213A-M Video Transceiver.....No or NV-413A 4-Port TransceiverNo or NV-813A 8-Port Passive HubNo or NV-1613A 16-Port Passive Hub.....No or NV-3213A 32-Port Passive Hub.....No or Qualified OEM Camera†	No	NV-213A Video TransceiverNo or NV-413A 4-Port Passive Transceiver.....No or NV-813A 8-Port Passive HubNo or NV-1613A 16-Port Passive HubNo or NV-3213A 32-Port Passive HubNo	No	No	Built-in
0 to 3,000ft* (0 to 1km)	NV-213A Video Transceiver.....No or NV-213A-M Video Transceiver.....No or NV-413A 4-Port Transceiver.....No or NV-813A 8-Port Passive HubNo or NV-1613A 16-Port Passive Hub.....No or NV-3213A 32-Port Passive Hub.....No or Qualified OEM Camera†	No	NV-452R 4-Port Active Receiver24V AC/DC or NV-652R Video Active Receiver12-24V AC/DC or NV-862R 8-Port Active Rcvr. Hub115/230 VAC or NV-1662R 16-Port Active Rcvr. Hub ..115/230 VAC or NV-3262R 32-Port Active Rcvr. Hub ..115/230 VAC	Yes	Yes	Built-in
Cat. 2 or 3* 0 to 1 mile 0 to 5,280ft (0 to 1,6km) or NTSC Cat. 5* 0 to 1.5 miles 0 to 8,000ft (0 to 2,4km)	NV-653T Video Transmitter...24V AC/DC	No	NV-452R 4-Port Active Receiver24V AC/DC or NV-652R Video Receiver12-24V AC/DC or NV-862R 8-Port Active Rcvr. Hub115/230 VAC or NV-1662R 16-Port Active Rcvr. Hub ..115/230 VAC or NV-3262R 32-Port Active Rcvr. Hub ..115/230 VAC	Yes	Yes	Built-in

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

** For Digital Recording applications, it is recommended that Passive to Passive transmission (Example: NV-213A to NV-213A) distances be limited to no more than 750 ft. For distances greater than 750 ft. please use an NVT Active Receiver product.

† The following companies have products which have an integrated NVT UTPICCTV output module: Ademco Video, CBC, Extreme CCTV, Kalatel, Silent Witness, Ultrak, Vicon, Videolarm. These cameras, therefore, have what is equivalent to the NV-213A built into the camera. When used with NVT active receiver models, transmission distances up to 3,000ft or (1km) are possible.

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