

 \emph{Q} uality video over ordinary telephone wire... $^{ ext{ iny B}}$

Model NV-813A, NV-1613A & NV-3213A Video Transceiver Hubs



(NV-3213A Front)



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(NV-3213A Rear)

Features:

- ▶ Use with the NV-213A/A-M, NV-413A, NV-813A, NV-1613A or NV-3213A as a rack-mountable passive transmitter or receiver at distances up to 1,000ft (300m)
- ▶ Use with the NV-452R, NV-652R, NV-862R, NV-1662R or NV-3262R as a rack-mountable passive transmitter for distances up to 3,000ft (1km)
- ▶ High-Density 19" 1U high enclosure features 8 ports (NV-813A), 16 ports (NV-1613A) or 32 ports (NV-3213A)
- Compatible with qualified UTP cameras
- No power required
- Built-in transient protection
- ➤ Supports "up-the coax" type control signal up to 1,000ft (300m)
- Includes 8, 16 or 32 2-foot (60cm) coax jumper cables & rackmount hardware
- Limited lifetime warranty

The NVT Models NV-813A, NV-1613A and NV-3213A are 8, 16 and 32-port passive transceiver hubs that allow transmission of real-time monochrome or color video over Unshielded Twisted-Pair (UTP) telephone wire. Baseband (composite) signals of any type are supported.

"Up the coax" type signal may be sent over the same wire pair at distances up to 1,000ft (300m).

The unparalleled interference rejection ability of the Model NV-813A, NV-1613A and NV-3213A Hubs allows video signals to co-exist in the same wire bundle as telephone, datacom, or low-voltage power circuits. Perfect for larger CCTV installations where port density and camera number growth are prevalent.



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Technical Specifications

DC to 5 MHz Frequency response Attenuation 0.5 dB typ Common-mode / Differential-mode rejection 15 KHz to 5 MHz dB typ Impedance Coax, female BNC 75 ohms UTP, Screw Terminal Block 100 ohms

Wire Type

Network Wiring One Unshielded Twisted Pair 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) 19 pF/ft max (62 pF/m max) Differential Capacitance **Environmental**

-20 to +75°C Temperature Humidity (non-condensing) 0 to 95% 6,000 V 1.2μS x 50 μS Transient Immunity per ANSI / IEEE 587 C62.41 B3 3,000 A 8μS x 20 μS when ground screw is bonded to earth-ground

Power

No external power required

Mechanical

Dimensions, excluding brackets and connectors NV-813A 3.8lb (1,7kg) Weight NV-1613A 4.2lb (1,9kg) NV-3213A 6.6lb (3,0kg)

Dimensions 17in wide, 1.7in high, 8.125in deep 43cm wide, 4.5cm high, 20cm deep

Accessories

Rack mount "L" brackets for front, Mounting rear, or wall installations;

rubber feet for desk applications

Cables

NV-813A Eight 2ft (60cm) coax jumpers

and one 7ft (2m) ground wire

Sixteen 2ft (60cm) coax jumpers NV-1613A

and one 7ft (2m) ground wire

Thirty-two 2 ft (60cm) coax jumpers NV-3213A

and one 7 ft (2m) ground wire

Product Selection Chart

Specifications subject to change without notice.

Distance	Ext. Power Transmitter Model Required	Ext. Power Receiver Model Required		Transient Protection	P/T/Z Control
0 to 500ft (0 to 150m)	NV-212A Video TransceiverNo or Qualified OEM Camera†Yes	NV-212A Video TransceiverNo	No	No, not for inter- building use	Yes
0 to 750ft (0 to 225m)	NV-212A Video TransceiverNo	NV-413A 4-Port Passive Transceiver No or NV-813A 8-Port Passive Hub No or NV-1613A 16-Port Passive Hub No or NV-3213A 32-Port Passive Hub No	No	No, not for inter- building use	Yes
0 to 1,000ft** (0 to 300m)	NV-213A Video TransceiverNo or NV-213A-M Video TransceiverNo or NV-413A 4-Port TransceiverNo or NV-813A 8-Port Passive HubNo or NV-1613A 16-Port Passive HubNo or NV-3213A 32-Port Passive HubNo or Qualified OEM Camera†	NV-213A Video Transceiver No or NV-413A 4-Port Passive Transceiver No or NV-813A 8-Port Passive Hub No or NV-1613A 16-Port Passive Hub No or NV-3213A 32-Port Passive Hub No	No	Built-in	Yes
0 to 3,000ft* (0 to 1km)	NV-213A Video TransceiverNo or NV-213A-M Video TransceiverNo or NV-413A 4-Port TransceiverNo or NV-813A 8-Port Passive HubNo or NV-613A 16-Port Passive HubNo or NV-613A 32-Port Passive HubNo or Qualified OEM Camera†	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. Hub115/230 VAC or NV-3262R 32-Port Active Rcvr. Hub115/230 VAC		Built-in	No, Use RS-422 or RS-485
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 Transmitter24V AC/DC	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. Hub115/230 VAC or NV-3262R 32-Port Active Rcvr. Hub115/230 VAC		Built-in	No, Use RS-422 or RS-485

^{*} 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

Network Video Technologies

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^{**} 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.