

Quality video over ordinary telephone wire...®

Model NV-213A & NV-213A-M Video Transceiver



Features:

- ▶ Full-motion CCTV video at distances up to 1,000ft (300m)** when used with a NV-211T-M, NV-213A(-M), NV-413A, NV-813A, NV-1613A or NV-3213A
- ▶ Up to 3,000ft (1 km)* with active receivers
- ▶ Supports "up-the-coax" type control signal up to 1,000ft (300m)
- ▶ No power required
- ▶ Exceptional interference rejection
- ▶ Built-in transient protection
- ▶ Male BNC on the NV-213A-M allows connection directly to the camera
- ▶ Compatible with qualified UTP cameras
- ▶ Up to 10 NV-213As may be rack mounted using the NV-RM8/10 Rack Panel Kit
- ▶ Limited lifetime warranty



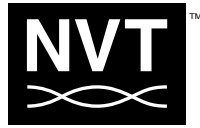
The NVT Model NV-213A and NV-213A-M Video Transceivers are passive (non-amplified) devices that allow the transmission of real-time monochrome or color video over Unshielded Twisted-Pair (UTP) telephone wire. Baseband (composite) signals of any type are supported.

Up-the-coax type signal may be sent over the same wire pair. Used as a receiver, the NV-213A is fully compatible with qualified cameras that are equipped with an NVT twisted-pair output.

The unparalleled interference rejection and low emissions of the Model NV-213A(-M) 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. With built-in transient protection, damaging voltage spike problems are eliminated.

Network Video Technologies

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Technical Specifications

Video

Frequency response	DC to 5 MHz		
Attenuation	0.5 dB	typ	
Common-mode / Differential-mode rejection			
15 KHz to 5 MHz	60 dB	typ	
Impedance			
Coax, female or male BNC	75	ohms	
UTP, Terminal Block	100	ohms	

Power

No external power required

Environmental

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

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)		
Differential Capacitance	19 pF/ft max		
	(62 pF/m max)		
Wire Length	See chart below		

Mechanical

Dimensions, excluding connectors	3.00 x 1.54 x 1.10in (76 x 39 x 28mm)
Weight	4.0 oz (100 g)
Material	Black ABS
Mounting	Two 0.175 in (4,4mm) diameter holes
	2.5in (63,5mm) apart
<i>Up to ten NV-213As can be mounted to an NV-RM 8/10 Rackmount Panel</i>	

Product Selection Chart

Specifications subject to change without notice.

Distance	Transmitter Model	Ext. Power Required	Receiver Model	Ext. Power Required	Ground Lifting	Transient Protection	P/T/Z Control
0 to 500ft (0 to 150m)	NV-211T-M Video TransmitterNo or Qualified OEM Camera	No	NV-212A Video TransceiverNo	No	No	No, not for inter-building use	Yes
0 to 1,000ft** (0 to 300m)	NV-211T-M Video TransmitterNo or NV-213A/A-M Video TransceiverNo or NV-413A 4-Port Passive XcvrNo 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	No	NV-213A Video TransceiverNo or 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	Built-in	Yes
0 to 3,000ft* (0 to 1km)	NV-211T-M Video TransmitterNo or NV-213A/A-M Video TransceiverNo or NV-413A 4-Port Passive XcvrNo 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	No	NV-652R Video Receiver12-24V AC/DC or NV-452R 4-Port Active Receiver24V AC/DC or NV-862R 8-Port Active Rcvr. Hub115/230VAC or NV-1662R 16-Port Active Rcvr. Hub ...115/230VAC or NV-3262R 32-Port Active Rcvr. Hub ...115/230VAC	Yes	Yes	Built-in	No, Use RS-422
Cat. 2 or 3* 0 to 1 mile 0 to 5,280ft (0 to 1,6 km) or Cat. 5* 0 to 1.5 miles 0 to 8,000ft (0 to 2,4 km)	NV-653T Video Transmitter ...24V AC/DC	No	NV-652R Video Receiver12-24V AC/DC or NV-452R 4-Port Active Receiver24V AC/DC or NV-862R 8-Port Active Rcvr. Hub115/230VAC or NV-1662R 16-Port Active Rcvr. Hub ...115/230VAC or NV-3262R 32-Port Active Rcvr. Hub ...115/230VAC	Yes	Yes	Built-in	No, Use RS-422

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

** For Digital Recording applications, it is recommended that Passive to Passive transmission (Example: NV-211T-M 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 UTP/CCTV output module: ADEMCO Video, Bosch, CBC, Extreme CCTV, Kalatel, Silent Witness, Ultrak, Vicon, Videolarm.

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