



Quality video over ordinary telephone wire...[®]

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



Features:

- ▶ Full-motion monochrome or color video at distances up to 1,000ft (300m) when used with the NV-213A, NV-213A-M, NV-813A, or NV-1613A
- ▶ 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.

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NV-213A
NV-213A-M



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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 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

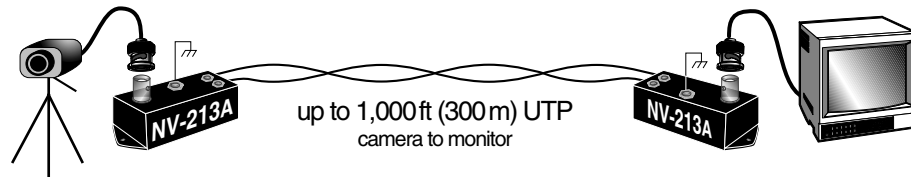
Network Wiring	One Unshielded Twisted Pair 24 AWG (0,5 mm) or thicker
Category Type	2 or better
Impedance	100 ± 20 ohms
DC Loop Resistance	52 ohms per 1,000 ft (18 ohms per 100 m)
Differential Capacitance	19 pF/ft max (62 pF/m max)
Wire Length	See chart below

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

Up to ten NV-213As 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	P/T/Z Control
0 to 500ft (0 to 150m)	NV-212A Video TransceiverNo 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-213A/A-M Video Transceiver.....No or NV-813A 8-Port Passive HubNo or NV-1613A 16-Port Passive HubNo. or Qualified OEM Camera	No	NV-213A Video TransceiverNo or NV-813A 8-Port Passive HubNo or NV-1613A 16-Port Passive HubNo	No	No	Built-in	Yes
0 to 3,000ft (0 to 1km)	NV-213A/A-M Video Transceiver.....No or NV-813A 8-Port Passive HubNo or NV-1613A 16-Port Passive HubNo or Qualified OEM Camera	No	NV-652R Video Receiver12-24V AC/DC or NV-862R 8-Port Active Rcvr. HubXformer Incl. or NV-1662R 16-Port Active Rcvr. Hub ...Xformer Incl.	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-862R 8-Port Active Rcvr. HubXformer Incl. or NV-1662R 16-Port Active Rcvr. Hub ...Xformer Incl.	Yes	Yes	Built-in	No, Use RS-422

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NV-213A
NV-213A-M