



Quality video over ordinary telephone wire...®

Model NV-653T Video Transmitter

**Now with
Expanded
Distance Range
0 to 1.5 miles**



Features:

- ▶ Full-motion monochrome or color video at distances up to:
5,280ft 1 mile (1,6km) when used with NV-652R, NV-852R, or NV-1662R
receivers and Cat-2 or Cat-3 wire, or 8,000ft 1.5 miles (2,4km) with Cat-5 wire
- ▶ Exceptional interference rejection
- ▶ Built-in transient protection & ground lifting
- ▶ Three-position distance range switch
- ▶ Blue power LED, green active LED
- ▶ Up to 10 NV-653Ts may be rack mounted using the NV-RM8/10 Rack Panel Kit
- ▶ Limited lifetime warranty

The NVT Model NV-653T Video Transmitter 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) using Category-5. Baseband (composite) signals of any type are supported.

The unparalleled interference rejection and low emissions of the Model NV-653T allows 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, Inc.
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 • <http://www.nvt.com> • Internet Keyword: NVT

NV-653T



Quality video over ordinary telephone wire...®

Model NV-653T Video Transmitter

Technical Specifications

Video

Frequency response	DC to 5 MHz
3-Position Adjustable Distance Switch	
Common-mode / Differential-mode rejection	
15 KHz to 5 MHz	60 dB typ
Impedance	
Coax, female BNC	75 ohms
UTP, Terminal Block	100 ohms

LED Indicators

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

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*

Power

24VAC / DC (transformer not included) 200 mA max
May share 24VAC power with camera, providing supply is floating

Environmental

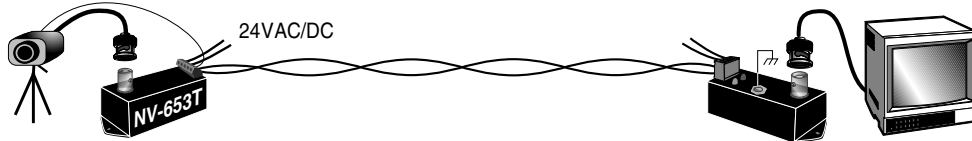
Temperature 0 to +50°C
Humidity (non-condensing) 0 to 95%
Transient Immunity 6,000 V 1.2µs x 50 µS
per ANSI / IEEE 587 C62.41 B3 3,000 A 8µs x 20 µS
when ground screw terminal is bonded to earth-ground

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-653Ts 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.	12-24V AC/DC	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.	12-24V AC/DC	Yes	Built-in	No, Use RS-422

* 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, Inc.
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 • http://www.nvt.com • Internet Keyword: NVT

Copyright © 2000 NVT, Inc.

411-543-1-A

NV-653T