

PRODUCT SPECIFICATION

VH851
VH1651
VH856
VH1656

DOCUMENT NUMBER VH8/1656	MODEL VH851, VH851M, VH1651 & VH1651M 8 & 16 Port Active UTP Video Hubs; up to 1,500 feet (457 meters) w/passive transceivers
REVISION NUMBER 011707	VH856, VH856M, VH1656 & VH1656M 8 & 16 Port Active UTP Video Hubs; up to 3,000 feet (914 meters) w/passive transceivers up to 6,000 feet (1,828 meters) w/active transmitters

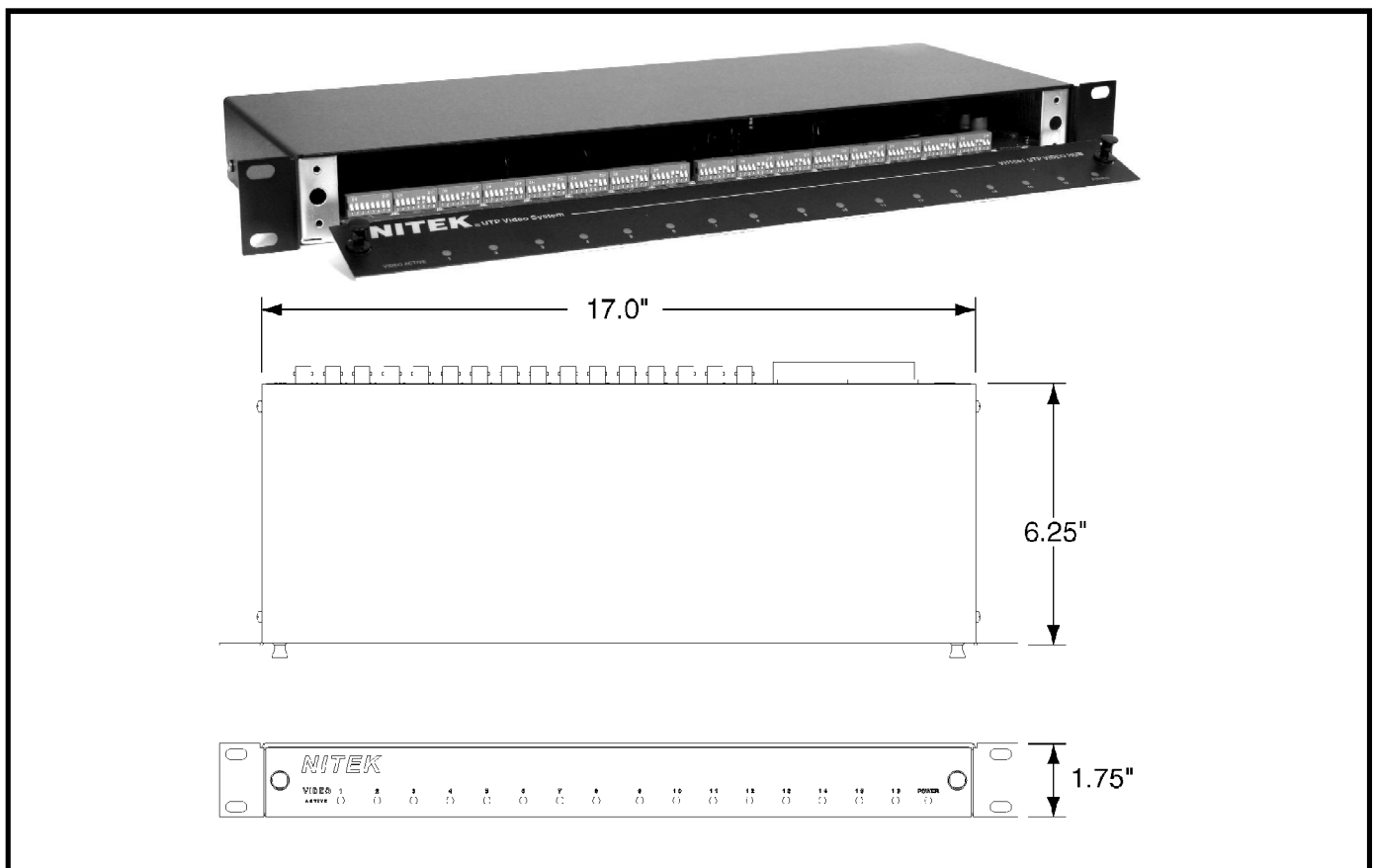
Description

8 or 16 port active video hubs with dual outputs, built-in surge suppression, ground loop isolation, gain/loss control, and video detection. Systems operate with other Nitek UTP video equipment including, video transceiver hubs, standard video balun transceivers, active transmitters, or any twisted pair equipped camera.

Multi-channel video receiver hubs provide excellent video quality through two video outputs per channel. Twisted pair installations are made with a choice of the standard screw terminal connections, or the modular jack connections featured on the 'M' series. The VH851 or VH1651 can receive video up to 1,500 feet (457 meters) when used with passive transmitters. The VH856 or VH1656 can be used on video runs up to 3,000 feet (914 meters) when used with passive transmitters, or distances of up to 6,000 feet (1,828 meters) with the Nitek TT560 active transmitter. These hubs provide superior immunity from noise and interference, even when run in common raceways with AC power.

Features

- Dual video output video distribution
- Screw terminals or modular jack connectors
- Quality video over ordinary twisted pair cable
- Built-in surge suppression
- Built-in ground loop isolation
- Convenient access to DIP switches for accurate gain and loss control
- High immunity to noise and interference
- LED's to indicate video detection
- RJ45 jack or screw terminal video inputs



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TECHNICAL SPECIFICATION

8 Port or 16 Port Active UTP Video Hubs

VH851, VH1651, VH856 & VH1656
 VH851M, VH1651M, VH856M & VH1656M
 Size 1 RU x 6.0"D

Power Requirements	24 VAC (Wall transformer provided with unit)
Video Input	Balanced low voltage current loop
Video Output	1 Vpp composite video Monochrome or Color
Common Mode Rejection	>70dB
Video Format	RS170, NTSC, PAL, SECAM, CCIR (Color or B/W)
Twisted Pair Connection	Screw terminals or RJ45 Jack
Output Connection	Dual BNC Connectors
Wire Spec	26 to 12 AWG unshielded twisted pair (UTP)
DC Loop Resistance	51 Ohms/1,000 feet (304 meters) (max)
Nominal Capacitance Impedence	17pF/ft. 100 Ohms +/- 20%
UTP Category	2 or better
Operating Frequency	DC to 10 MHz
Recommended Transmission Distance	VH851 & VH1651 - Up to 1,500 feet (457 meters) w/Passive Baluns VH856 & VH1656 - Up to 3,000 feet (914 meters) w/Passive Baluns - Up to 6,000 feet (1,828 meters) w/Active Transmitters
Transient Immunity	Built-In
Temperature Range	-20 degrees C to +55 degrees C
Humidity Range	0 to 98% non-condensing
Enclosure Type	Standard 19" rack 1 RU in height

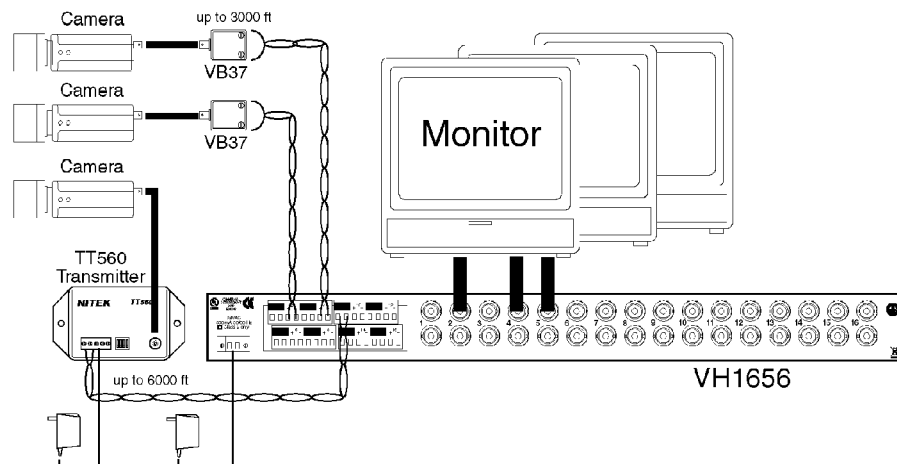
Ordering Information

PART	DESCRIPTION
VH851	8 Port Active UTP Receiver Hub w/surge suppression; up to 1,500 feet (457 meters)
VH851M	8 Port Active UTP Receiver Hub w/surge suppression; up to 1,500 feet (457 meters) RJ45 Connectors
VH856	8 Port Active UTP Receiver Hub w/surge suppression; up to 3,000 feet (914 meters)
VH856M	8 Port Active UTP Receiver Hub w/surge suppression; up to 3,000 feet (914 meters) RJ45 Connectors
VH1651	16 Port Active UTP Receiver Hub w/surge suppression; up to 1,500 feet (457 meters)
VH1651M	16 Port Active UTP Receiver Hub w/surge suppression; up to 1,500 feet (457 meters) RJ45 Connectors
VH1656	16 Port Active UTP Receiver Hub w/surge suppression; up to 3,000 feet (914 meters)
VH1656M	16 Port Active UTP Receiver Hub w/surge suppression; up to 3,000 feet (914 meters) RJ45 Connectors

Models featured above may require other Nitek components to form a complete system.

Wire and Cable Recommendations

Twisted Sender is recommended for use with **unshielded twisted pair** (UTP) wiring. The systems will operate over wire gauges from 26 AWG through 12 AWG but are optimized for 24 AWG. Category cabling may be used. Individually shielded pairs should be avoided as they drastically reduce the operating range of the systems. Multi-pair cable with an overall shield is acceptable. Video can be operated in the same communication cable coexistent with telephone, computer, control signals, power voltages and other video signals. While video may be routed through telephone punchdown block terminals, any bridge-taps, also called T-taps and any resistive, capacitive or inductive devices **MUST BE** removed from the pair. For more specific information regarding wire types, gauges and proper installation techniques, please call 800-528-4343 for technical assistance.



Specifications subject to change without notice.