

PRODUCT SPECIFICATION

VH839

VH839M

VH1639

VH1639M

DOCUMENT NUMBER VH8/1639	MODEL VH839 & VH1639 8 & 16 Port UTP Video Hub with screw terminals; up to 750 feet (228 meters) as passive transceivers up to 3,000 feet (914 meters) with active receivers
REVISION NUMBER 090806	VH839M & VH1639M 8 & 16 Port UTP Video Hub with modular jacks; up to 750 feet (228 meters) as passive transceivers up to 3,000 feet (914 meters) with active receivers

Description

8 or 16 port video balun hubs with built-in surge suppression. Systems operate with other Nitek UTP video equipment including, video balun hubs, standard video balun transceivers or active receivers.

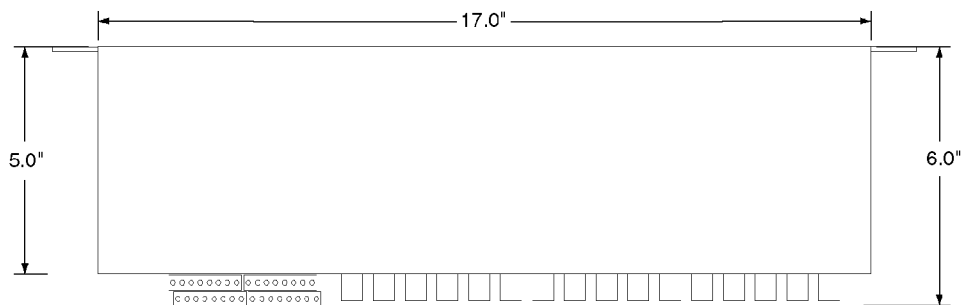
The **VH839, VH839M, VH1639 & VH1639M** video balun hubs are multi-channel video transceivers that provide a low cost means of sending quality live video over Category UTP cabling. The systems can also adapt to existing communication and computer network spare pairs, or new cable installations. The VH839 and VH1639 can be used to transmit or receive video up to 750 feet (228 meters) when used with other products in the VB37 or VB39 family. When used with model TR515 or TR560 active receivers, distances of 1,500 feet (457 meters) and 3,000 feet (914 meters), respectively, can be attained. The VH839 and VH1639 are designed to provide superior immunity from noise and interference, such as RFI and EMI.

Features

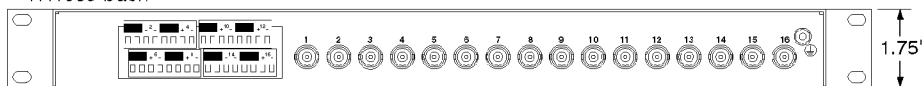
- Quality video over ordinary twisted pair cable
- Built-in protection from power surges and transients
- High immunity to noise and interference
- Passive units require no power
- Video & P/T/Z over a single pair with "up-the-coax" systems when used with passive baluns
- Highly compact, only one rack unit in height
- Conveniently integrates with Nitek modular systems
- Video can be run in the same cable with telephone, computer signals and power



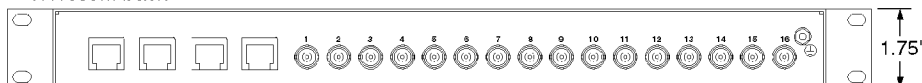
VH1639 Shown



VH1639 back



VH1639M back



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TECHNICAL SPECIFICATION

8 Port or 16 Port Video Balun Hub

Size	1 RU x 6.0"D
Power Requirements	NONE REQUIRED
Video Input Connection	Standard BNC connector for 1 Vpp composite video Monochrome or Color
Video Format	RS170, NTSC, PAL, SECAM, CCIR (Color or B/W)
Twisted Pair	Screw terminals on standard units RJ45 on M units
Wire Spec	26 to 18 AWG unshielded twisted pair (UTP)
DC Loop Resistance	51 Ohms/1,000 feet (304 meters) (max)
Nominal Capacitance	17pF/ft. +/- 10%
Impedance	100 Ohms +/- 20%
UTP Category	3 or better
Common Mode Rejection	>70dB
Operating Frequency	DC to 10 MHz
Recommended Transmission Distance	w/passive units - Up to 750 feet w/active receivers - Up to 3,000 feet

Transient Immunity Built-In

Wire and Cable Recommendations

The systems are recommended for use with **unshielded twisted pair** (UTP) wiring. They will operate over wire gauges from 26 AWG through 18 AWG but are optimized for 24 AWG 17 pF/ft. Category cabling may be used. Individually shielded pairs should be avoided as they dramatically reduce the operating range of the systems. Multi-pair cable with an overall shield is acceptable. Video can be carried 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 for technical assistance.

Ordering Information

PART	DESCRIPTION
VH839	8 Port UTP Video Balun Hub w/screw terminals and surge suppression; up to 750 feet (228 meters)
VH839M	8 Port UTP Video Balun Hub w/RJ45 connectors and surge suppression; up to 750 feet (228 meters)
VH1639	16 Port UTP Video Balun Hub w/screw terminals and surge suppression; up to 750 feet (228 meters)
VH1639M	16 Port UTP Video Balun Hub w/RJ45 connectors and surge suppression; up to 750 feet (228 meters)

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

