VH3239

32 Port Video Balun Hub

11/08

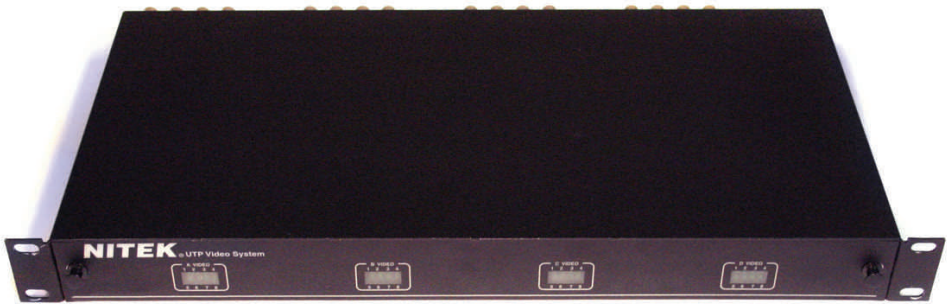
PRODUCT SPECIFICATION

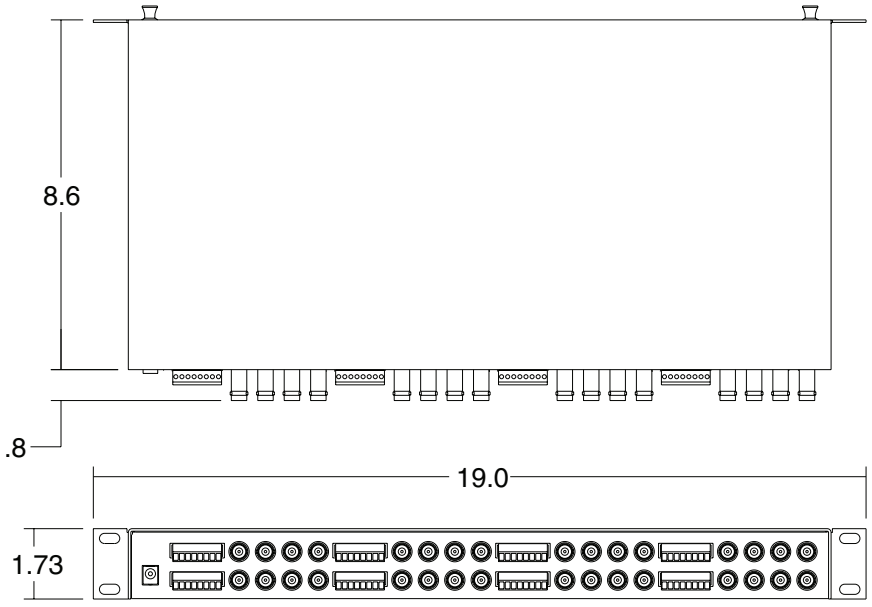
Description

The **VH3239** video balun hub is a multi-channel video transceiver that provides a low cost means of sending quality live video over Category cabling. The system can also adapt to existing communication and computer network spare pairs. The VH3239 can be used to transmit or receive video up to 750 feet 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 and 3,000 feet, respectively can be attained. The VH3239 is designed to provide superior immunity from noise and interference, such as RFI and EMI.

Features

- Quality video over ordinary twisted pair
- Built-in protection from power surges and transients
- 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 1 RU in height
- Conveniently integrates with Nitek modular systems
- Video can be run in the same cable with telephone, computer signals and power





LISTED

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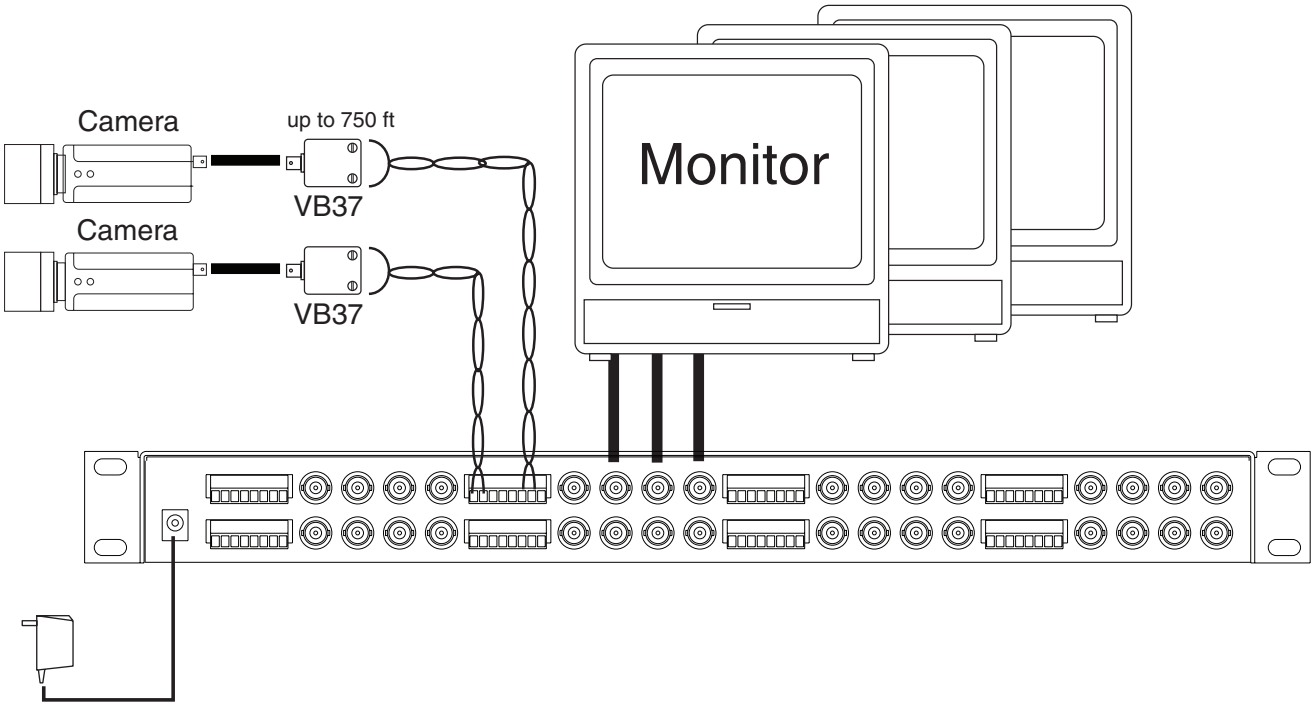
TECHNICAL SPECIFICATION

32 Port Video Balun Hub

Size	1 RU x 6.0” D
Input	Standard BNC connector for 1 Vpp composite video Monochrome or Color
Video Format	PAL, SECAM, NTSC, RS170, CCIR (Color or B/W)
Twisted Pair Connection	Screw terminals
Common Mode Rejection	>70dB
Operating Frequency	DC to 10 MHz
Recommended Transmission Distance	w/passive units—750 feet w/active units—3,000 feet
Wire Spec	26 to 18 AWG twisted pair
DC Loop Resistance	51 Ohms/1,000 feet
Nominal Capacitance	17pF/ft
Impedance	100 Ohms +/- 20%\
Category Wire	2 or better
Transient Immunity	Built-in
Shipping Weight	15 lbs

Wire and Cable Recommendations

We recommend using unshielded twisted pair wiring. The systems will operate over wire 26 to 18 AWG but are optimized for 24 AWG. Category cables 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 punch down block terminals, any bridge-taps, also called T-taps and any resistive, capacitive or inductive devices MUST BE removed from the pair.



MULTI CHANNEL SYSTEM
VH451 - VH456

VH451 - 4 Port Active Video Mini-Hub; Up to 500 m
VH456 - 4 Port Active Video Mini-Hub; Up to 2200 m

Description:

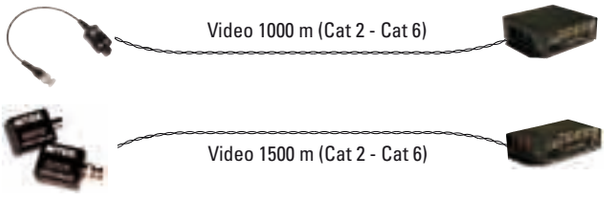
4 port active video mini-hub with gain and loss control, built-in surge suppression, ground loop isolation and video detection. Systems operate with other NITEK UTP video equipment including video transceiver hubs, standard video balun transceivers, active transmitters or any twisted pair equipped camera.

These active video mini-hubs are multi-channel video receiver devices that provide a low cost means of receiving 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 VH451 can receive video up to 500 m when used with passive transmitters. The VH456 can be used on video runs up to 1000 m when used with passive transmitters or distances of up to 2200 m with the Nitek TT560 active transmitter. These hubs provide superior immunity from noise and interference, even when run in common raceways with AC.

Features:

- Quality video over ordinary twisted pair cable
- Built-in surge suppression
- Built-in ground loop isolation
- Convenient access to DIP switches for accurate gain/loss control
- High immunity to noise and interference
- LEDís to indicate video detection
- Compact design
- Video can be run in the same cable with telephone, computer signals and power

Where to use:



Size	5.5"W x 1.8"H x 4.6"D
Power Requirements	24 VAC 300mA max. Class 2 (Wall transformer provided with unit)
Video Input	Balanced low voltage current loop
Video Output	1 Vpp composite video Monochrome / Color
Common Mode Rejection	>70 dB typ.
Video Format	RS170, NTSC, PAL, SECAM CCIR (Color or B/W)
Twisted Pair Connection	Screw terminals providing balanced low voltage loop
Wire Size	26 to 12 AWG Unshielded Twisted Pair
UTP Category	Unshielded Category Cabling
Operating Frequency	DC to 10 MHz
Transient Immunity	Built-in
Temperature Range	-20 degrees C to +55 degrees C
Humidity Range	0 to 98% non-condensing
Recommended Transmission Distance	VH451 - Up to 500 m w/passive baluns VH456 - Up to 1000 m w/passive baluns - Up to 2200 m w/active transmitters

VH839 - VH1639 - VH3239 and VH839M-VH1639M-VH3239M

8, 16 or 32 Port 350 m Passive Video Hubs up to 350 m
The VH M series has a RJ45 connector as output for video and data.

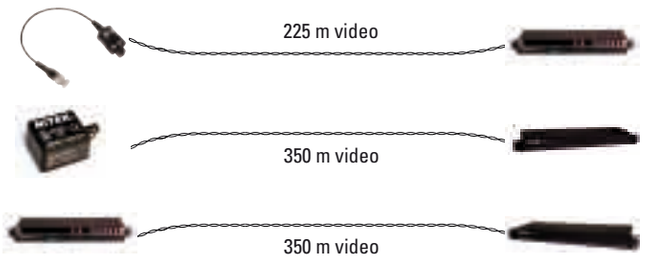
Description:

Systems operate with other NITEK UTP video equipment including Video Balun Hubs, standard Video Balun Transceivers or Active Receivers.

The VH839, VH1639 & VB3239 Video Balun Hubs are multichannel video transmission devices 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, VH1639 and VH3239 can send video up to 350 m when used with other products in the VB37 or VB39 family (225 m when used with DVR equipment). When used with model TR515 or TR560 active receivers, distances of 500 and 1000 m, respectively, can be attained. The VH839, VH1639 and VH3239 are designed to provide superior immunity from noise and interference, such as RFI and EMI.

Where to use:



Size	1 RU x 6.0"D
Power Requirements	NONE REQUIRED
Video Input	Standard BNC connector for 1 Vpp composite video Monochrome or Color
Video Format	RS170, NTSC, PAL, SECAM CCIR (Color or B/W)
Twisted Pair Connection	Screw terminals providing balanced low voltage current loop
Wire Size	26 to 12 AWG Unshielded Twisted Pair
UTP Category	Unshielded Category Cabling
Common Mode Rejection	>70 dB typ.
Operating Frequency	DC to 10 MHz
Recommended Transmission Distance	w/passive units - Up to 350 m w/active units - Up to 1500 m
Transient Immunity	Built-In

Ordering Information	
Part	Description
VH839	8 Port UTP Video Balun Hub w/ surge suppression; up to 350 m
VH1639	16 Port UTP Video Balun Hub w/ surge suppression; up to 350 m
VH3239	32 Port UTP Video Balun Hub w/ surge suppression; up to 350 m