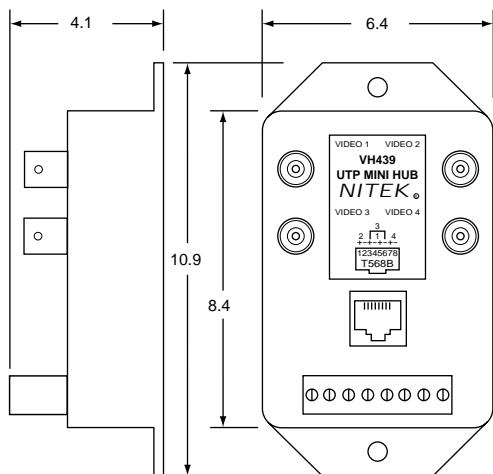


# PRODUCT SPECIFICATION

DOCUMENT NUMBER VH0439	MODEL <b>VH439</b> 4 Port UTP Video Mini-Hub; up to 350 m with passive transceivers up to 1000 m with active receivers
REVISION NUMBER 052103	

VH439



## Description

**4 Port Video Balun Mini-Hub with built-in surge suppression. System operates with other NITEK UTP video equipment including, Video Balun Hubs, standard Video Balun Transceivers or Active Receivers.**

The VH439 Video Balun Mini-Hub is a multi-channel video transmission device that provides a low cost means of sending quality live video over category UTP cabling. The system can also adapt to existing communication and computer network spare pairs. The VH439 can send video up to 350 m when used with other products in the VB37 or VB39 family (3000 m when used with DVR equipment). When used with model TR515 or TR560 active receivers, distances of 500 m and 1000 m respectively can be attained. The VH439 is 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
- Highly compact, wall-mounted unit
- RJ45 modular jack or screw terminals for easy connection when used with other passive baluns
- Video can be run in the same cable with telephone, computer signals and power

## Applications

- Structured cabling environments
- Multi-camera applications through conduit (more cameras through a smaller diameter)
- Combining mid-span video runs into a single cable

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# TECHNICAL SPECIFICATION

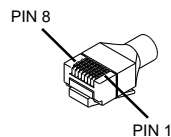
## VH439 - 4 Port Video Balun Mini-Hub

Size	4.1cmH x 10.9cmW x 6.4cmD
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 Connection	Screw terminals or RJ45 modular connector providing balanced low voltage current loop
Wire Size	26 to 12 AWG Unshielded Twisted Pair
UTP Category	Unshielded Category Cabling
Common Mode Rejection	>70dB
Operating Frequency	DC to 10 MHz
Recommended Transmission Distance	w/passive units - Up to 350 m (300 m when used with DVR equipment) w/active units - Up to 1000 m
Transient Immunity	Built-in

## Ordering Information

PART	DESCRIPTION
<b>VH439</b>	4 Port UTP Video Balun Mini-Hub w/surge suppression; up to 350 m
<i>VH439 works with the following NITEK equipment</i>	
<b>VB37M</b>	BNC Male Video Balun; up to 350 m
<b>VB37F</b>	BNC Female Video Balun; up to 350 m
<b>VB39M</b>	BNC Male Video Balun w/surge suppression; up to 350 m
<b>VB39F</b>	BNC Female Video Balun w/surge suppression; up to 350 m
<b>VB43F</b>	BNC Female Video Balun/Combiner w/surge suppression; up to 350 m
<b>TR515</b>	Active Receiver w/surge suppression; up to 500 m
<b>TR560</b>	Active Receiver w/surge suppression; up to 1000 m
<b>VB41x4</b>	4 Balun Card w/surge suppression for Rack; up to 350 m
<b>TR515x4</b>	Active Receiver w/surge suppression for Rack; up to 500 m
<b>TR560x4</b>	Active Receiver w/surge suppression for Rack; up to 1000 m
<b>VH1639</b>	16 Port UTP Video Balun Hub w/surge suppression; up to 350 m
<b>VH1651</b>	16 Port Active UTP Receiver Hub w/surge suppression; up to 500 m
<b>VH1656</b>	16 Port Active UTP Receiver Hub w/surge suppression; up to 1000 m

PIN	RJ45 KEY
1	VIDEO 2 +
2	VIDEO 2 -
3	VIDEO 3 +
4	VIDEO 1 -
5	VIDEO 1 +
6	VIDEO 3 -
7	VIDEO 4 +
8	VIDEO 4 -



## 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 punch down 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 +31(0)320 - 230005 for technical assistance. More information is also available on the CCTV System Design Guide Sheet.

