

Model VH439

4 Port Video Mini-Hub

Installation and Operation Manual

Note: This installation should be made by a qualified service person and conform with local codes.



Reduce risk of fire or electrical shock. Do not expose this product to rain or moisture.

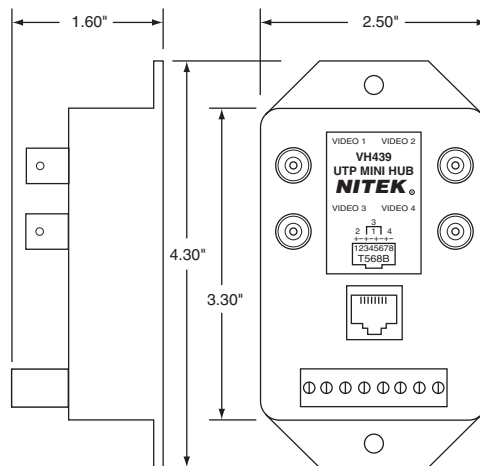
Specifications

Size	1.6"H x 4.3"W x 2.5"D (41m H x 110m W x 64m D)	UTP Category	Unshielded Category 2 or better
Power Requirements	None Required	Common Mode Rejection	>60dB
Video Input Connection	Standard BNC 1vpp composite video Monochrome or Color	Operating Frequency	DC to 10 MHz
Video Format	RS170, NTSC, PAL, SECAM CCIR (Color or B/W)	Recommended Transmission Distance	w/passive units - Up to 1,000 feet w/active units - Up to 3,000 feet w/DVR recorders - Up to 750 feet
Twisted Pair	Screw Terminals or RJ45 Jack	Transient Immunity	Built-in

Description

The **VH439** video balun hub is a multi-channel video transmission device that provides a low cost means of sending quality live video over category 2, 3, 4 or 5 twisted pair cable. The system works equally well over existing communication and computer network spare pairs or new cable installations.

The VH439 can send video up to 1,000 feet when used with other products in the VB37 or VB39 family. When used with a DVR the VH439 must be limited to 750 feet. When used with Model TR515 or TR560 active receivers, distances of 1,500 feet and 3,000, respectively, can be obtained. The VH439 is designed to provide superior immunity from noise and interference even when run near power lines. Additionally, the unit has built-in surge arresting to protect video equipment from harmful power lines and lightning related type surges.



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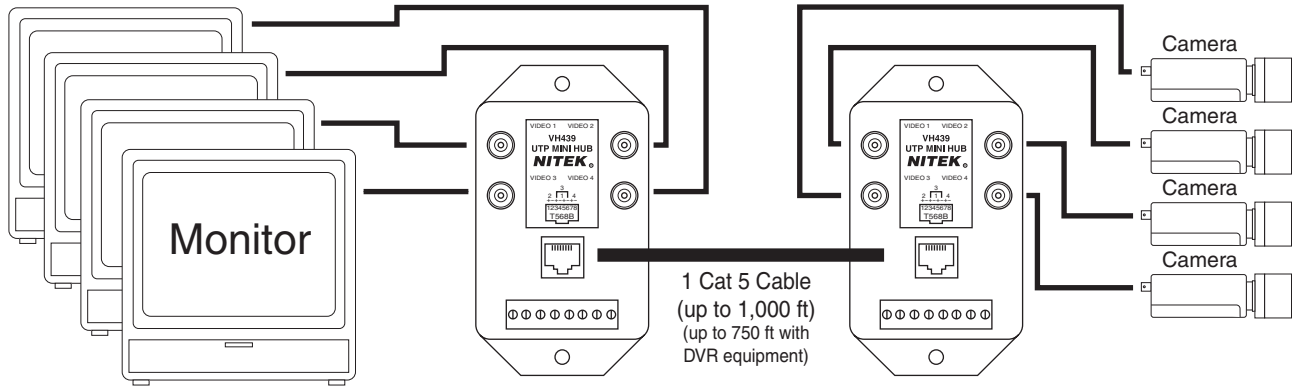
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Installation

The VH439 is a 4 port video balloon hub with built-in surge protection. The system operates with other Nitek UTP video equipment including other UTP video hubs, standard video balloon transceivers or active receiver units. It is easy to mount in small places. The VH439 converts video into twisted pair signal or vice versa.

The diagram below shows only a few of the many possible configurations. If you have any questions about your particular application call the Nitek sales or technical offices.

To hook up the VH439 connect a video coax to the BNC connector and hook the twisted pair to the matching + and - terminals. There are 2 possible twisted pair connectors, the standard screw terminal and an RJ45 modular jack. Both do the same thing and only one may be used. At the other end of the twisted pair connect another Nitek UTP video unit in the same way. The twisted pair is polarity sensitive so if you are not getting proper video try reversing the twisted pair. It will not hurt the equipment if the pair is reversed but the video will not be viewable.



Troubleshooting

Problem
Fix/Cause

Video inverted or rolling and unstable.

- Reverse the wires of the twisted pair at either the transmitter or receiver.

Problem
Fix/Cause

No video out at the receiver.

- Check to make sure that there is video in at the transmit end.
- Make sure that the pair of wires you are using is not open or shorted between the transmit and receive points.
- Check power to the receiver. The receiver must be powered with the supplied wall pack

Problem
Fix/Cause

Ghost image at the receiver.

- Bridge tap or "T" tap on the twisted pair video line. Remove tap.

For additional help with problems please call Nitek Tech Support at (800) 528-4343. Hours are from 8am to 5pm Central Standard Time, Monday through Friday. We are always ready to help.