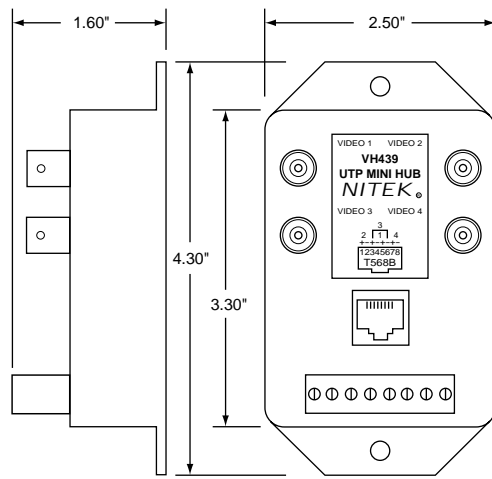


4 Port UTP Video Hub

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 feet respectively can be obtained. The VH439 is designed to provide superior immunity from noise and interference even when run near to power lines. Additionally, the unit has built-in surge arresting to protect video equipment from harmful power lines and lightning related type surges.



VH439 UTP Video Hub

Limited Lifetime Warranty

NITEK warrants that this product is to be free from defects in materials and workmanship, for the life of the product. The warranty given by NITEK is in lieu of any other warranties, express or implied. NITEK assumes no responsibility for damages or penalties incurred resulting from the use of this product. NITEK's liability under any warranties shall be discharged by replacing or repairing, at our option, the defective product. NITEK's liability for any product shall not exceed a refund of the purchase price. The warranty listed here is intended only as a summary of your full and complete warranty. For a full and complete warranty of this product contact NITEK.

CAT.NO.VH439040903

VH439 UTP Video Hub

Size	4.3"W x 2.5"D x 1.6"H
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 providing or RJ45 Modular Jack
Wire Size	12 to 26 AWG Unshielded Twisted Pair
UTP Category	Unshielded Category 2 or better
Common Mode Rejection	>60dB
Operating Frequency	DC to 10 MHz
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
Transient Immunity	Built-in

NITEK®

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VH439

4 Port UTP Video Hub

INSTALLATION

The VH439 is a 4 Port Video Balun Hub with built-in surge protection. The system operates with other NITEK UTP video equipment including other UTP Video Hubs, standard Video Balun Transceivers or active receiver units. It is easy to mount in small place. The VH439 converts video into twisted pair signal or visa 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 be unusable.

TROUBLESHOOTING

Many times it is not possible to know where the telephone cables are routed, so the actual distance of the cable may not be known. An easy way to determine the actual length of the cable is with an ohm meter. Short the wire together at one end and measure the resistance at the other end. 24 AWG wire has a loop resistance of 51 ohms per 1,000 feet, 26 AWG is 82 ohms and 22 AWG is 32 ohms. If you are exceeding the recommended distance for your unit contact NITEK or your local representative. NITEK manufactures a wide selection of systems for longer runs and we would be happy to provide you with the correct solution.

For NITEK Technical assistance call 800-528-4343.

Problem Video will not sync, wide white jagged area.
Fix/Cause Reverse wires on twisted pair connection.

Problem No video at receiver.
Fix/Cause Check camera video and coax connections.
Check the twisted pair for opens and shorts.

Problem Ghosts image to the right, horizontal smearing.
Fix/Cause Check for bridge taps or "T" taps on the twisted pair and remove them.

