



## Description

The **VH456** 4-port active video mini-hub is a multi-channel video receiver device that provides a low cost means of receiving quality video over Category cabling. The system can also adapt to existing communication and computer network spare pairs or new cable installations. The VH456 can receive video up to 900 meters when used with passive transmitters or distances up to 1800 meters with the Nitek TT560 active transmitter. The VH456 provides superior immunity from noise and interference, even when run in common raceways with AC.

## Features

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



LISTED



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# TECHNICAL SPECIFICATION

VH456EU0808

## VH456—4 Port Active Video Mini-Hub

Size (mm)	140 H x 46 W x 117 D
Power Requirements	24 VAC 300mA max. Class 2
Input	Balanced low voltage current loop
Output	1 Vpp composite video Monochrome or Color
Video Format	PAL, SECAM, NTSC, RS170, CCIR (Color or B/W)
Twisted Pair Connection	Screw terminals
Wire Spec	0,5 to 1,2mm twisted pair
DC Loop Resistance	51 Ohms/300 meters
Nominal Capacitance	56pF/m
Impedance	100 Ohms +/- 20%\
Category Wire	2 or better
Common Mode Rejection	>70dB
Operating Frequency	DC to 10 MHz
Recommended Transmission Distance	Up to 900 meters w/passive baluns Up to 1800 meters w/active transmitters
Transient Immunity	Built-in
Temperature Range	-20°C to +55°C
Humidity Range	0 to 98%, non-condensing

## Wire and Cable Recommendations

We recommend using unshielded twisted pair wiring. The systems will operate over wire 0,5mm to 1,2mm but are optimized for 0,6mm. 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.

