

PRODUCT SPECIFICATION

DOCUMENT NUMBER VH3200	MODEL VH3200 Powered Card Cage VB41x8 Video Balun Transceiver Card, up to 1,000 ft. TR515x8 Active Video Receiver Card, up to 1,500 ft. TR560x8 Active Receiver Card, up to 3,000 ft.; up to 6,000 with Active Transmitters
REVISION NUMBER 080205	

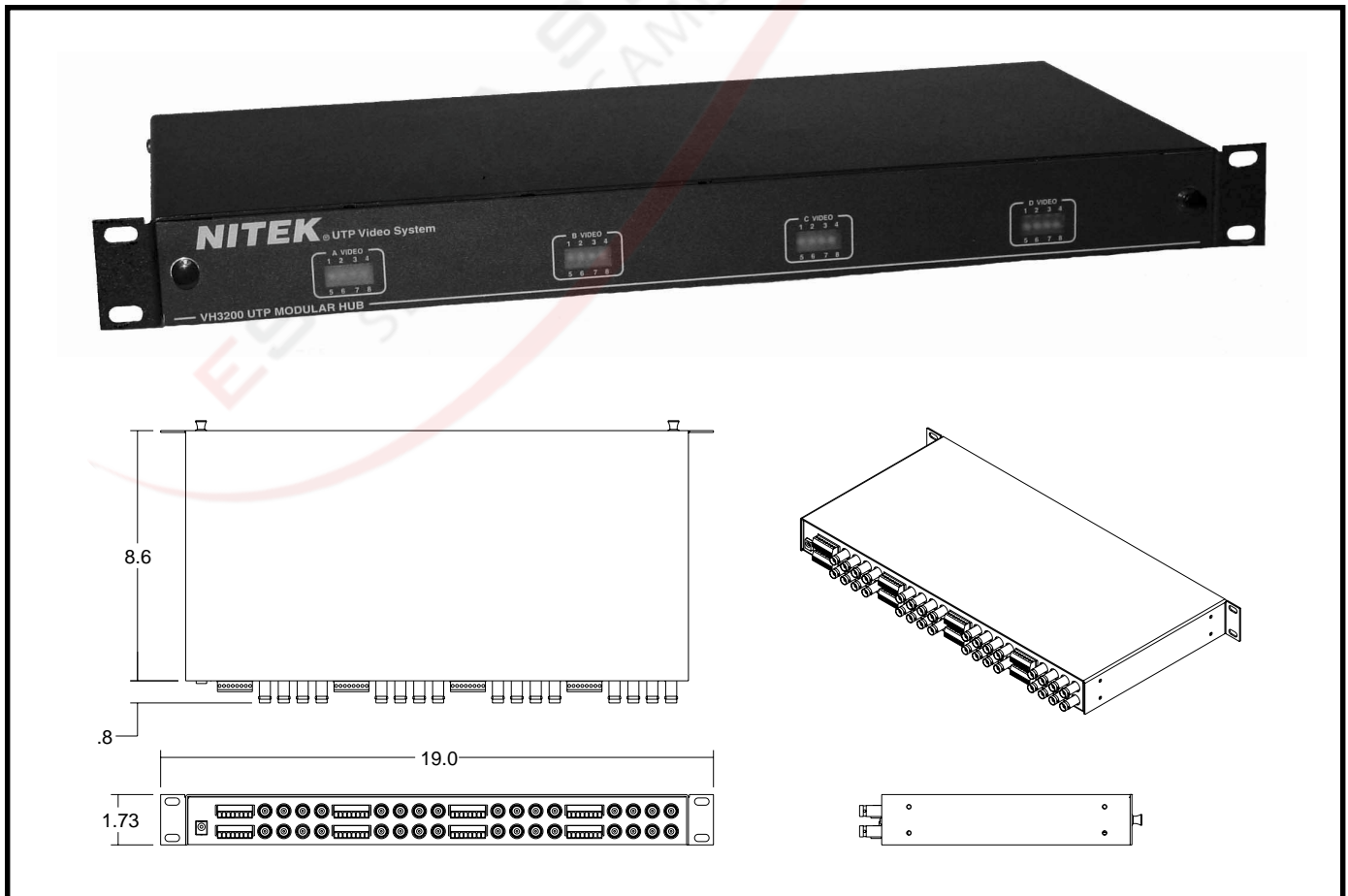
Description

Up to 32 Port Powered Video Hub with built-in surge suppression 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.

The **VH3200** series UTP Modular Hub system holds up to four VB41x8, TR515x8 or TR560x8 8 channel video receiver cards in any combination, for a total of 32 input ports. The VB41x8 can be used on video runs up to 1,000 feet (750 feet when used with DVR equipment). The TR515x8 can be used up to 1,500 feet with passive transmitters. The TR560x8 can be used up to 3,000 feet with passive transmitters and up to 6,000 feet with the NITEK TT560 active transmitter.

Features

- Quality video over ordinary twisted pair cable
- Built-in surge suppression
- Built-in ground loop isolation (TR515x8 and TR560x8)
- DIP switches for accurate gain and loss control
- High immunity to noise and interference
- LED's to indicate video detection
- Highly compact, only one rack unit in height
- Easy to install and configure
- Video can be run in the same cable with telephone, computer signals and power



VH3200
VB41x8
TR515x8
TR560x8

NITEK®

5410 Newport Drive, Suite 24 • Rolling Meadows, IL • 60008
 Phone: (800) 528-4343 • (847) 259-8900 • Fax: (847) 259-1300
 E-mail: info@nitek.net • Internet: www.nitek.net

TECHNICAL SPECIFICATION

32 Port UTP Modular Video Hubs

Size	1 RU x 9.4"D
Power Requirements	24 VAC (Wall transformer provided with unit)
Video Input	Balanced low voltage current loop
Video Output	1 Vpp composite video Monochrome or Color
Common Mode Rejection	>70dB
Video Format	RS170, NTSC, PAL, SECAM, CCIR (Color or B/W)
Twisted Pair Connection	Screw terminals providing balanced low voltage current loop
Wire Spec	26 to 12 AWG Unshielded Twisted Pair (UTP)
DC Loop Resistance	51 Ohms/1,000 ft (max)
Nominal Capacitance	17pF/ft.
Impedance	100 Ohms +/- 20%
UTP Category	2 or better
Operating Frequency	DC to 10 MHz
Recommended Transmission Distance	VH3200 w/ VB41x8 - Up to 1,000 feet DVR up to 750 feet w/ TR515x8 - Up to 1,500 feet w/Passive Baluns w/ TR560x8 - Up to 3,000 feet w/Passive Baluns - Up to 6,000 feet w/Active Transmitters
Transient Immunity	Built-In
Temperature Range	-20 degrees C to +55 degrees C
Humidity Range	0 to 98% non-condensing
Enclosure Type	Standard 19" rack 1 RU in height

Ordering Information

PART	DESCRIPTION
VH3200	32 Port Powered UTP Receiver Hub holds up to 4 cards
VB41x8	8 channel UTP Balun card w/video detection; up to 1,000 ft.
TR515x8	8 channel UTP Active receiver card w/video detection; up to 1,500 ft.
TR560x8	8 channel UTP Active receiver card w/video detection; up to 3,000 ft.
<i>The following NITEK equipment works with the above:</i>	
VB37M	BNC Male Video Balun; up to 1,000 ft.
VB37F	BNC Female Video Balun; up to 1,000 ft.
VB39M	BNC Male Video Balun w/surge suppression; up to 1,000 ft.
VB39F	BNC Female Video Balun w/surge suppression; up to 1,000 ft.
VH439	4 Port UTP Video Balun Mini-Hub w/surge suppression; up to 1,000 ft.
VH839	8 Port UTP Video Balun Hub w/surge suppression; up to 1,000 ft.
VH1639	16 Port UTP Video Balun Hub w/surge suppression; up to 1,000 ft.
TT560	Active Transmitter w/surge suppression; up to 6,000 ft.

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 800-528-4343 for technical assistance. More information is also available on the CCTV System Design Guide Sheet.

