

# Vi6116 / Vi6116J

## 16-Channel Active UTP Video Receiver Hub

### Features

- Quality video over 6,000 ft. (1,830 m) of unshielded twisted pair wires (UTP)
- NTSC, PAL and SECAM video formats
- Female BNC and terminal blocks or RJ-45 connectors
- 70 dB cross talk and noise immunity
- Built-in ground loop immunity and surge protection
- A single distance adjustment for each video channel
- Compatible with qualified UTP cameras
- Includes 16 coax jumper cables
- Video present LED indicators for each channel
- Limited lifetime warranty



### Applications

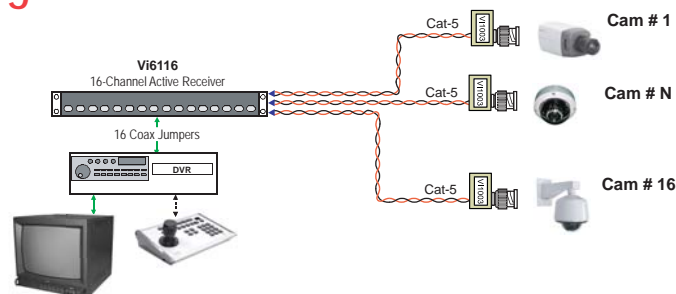
- Security and surveillance
- Structured cable environments
- Casinos and gaming
- Hospitals and airports
- Long distance alternative to fiber optic

The Vigitron Vi6116 is an advanced 16 port active receiver hub that receives high resolution color or black and white video over unshielded twisted pair Category 2-7, at distances up to 6,000 ft. (1,830 m) when used with a Vigitron Vi6100VT Active Transmitter. It can receive video signals from any Vigitron passive transceiver for distances up to 3,000 ft. (915 m).

The Vi6116 is a compact 1U 19 in. rack mountable unit. Each channel has a single distance adjustment, as well as an LED to indicate video presence. This receiver hub has built-in surge suppression to protect video equipment against damaging voltage spikes. Its integrated ground loop isolation prevents disturbing "hum-bars" common with long distance installations and its excellent crosstalk and noise immunity provides quality video up to the maximum distance. The Vi6116J provides RJ-45 ports for UTP connectivity to simplify VPD system installations.

The innovative design of the Vi6116 offers exceptional quality video and system flexibility making it ideal for a wide variety of applications that require multiple video channels and offers a cost effective alternative to expensive fiber optic solutions.

### Application Diagram



The smart choice for quality video



[www.vigitron.com](http://www.vigitron.com)

DSVi6116\_0509

# Technical Specification\*

## Electrical

Video Format	NTSC, PAL, SECAM
Frequency	20 Hz to 6 MHz
Coax	75 Ohm
Twisted Pair	100 Ohms +/- 20%, 24 AWG minimum up to 6,000 ft. (1,830 m) unshielded Category 2-7
CMRR	70 dB
Video Present	16 green LEDs, one per channel
Power	110 VAC / 300 mA, 240 VAC / 150 mA
Power Indicator	Red LED
Connectors	UTP inputs: Vi6116: Detachable terminal blocks Vi6116J: RJ-45 connectors
	Video outputs: Dual BNC output for each input
	Power: AC power inlet
Transient Immunity	per ANSI/IEEE 587 C62.41

## Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -10°C to +50°C Storage: -30°C to +70°C

## Mechanical

Dimensions	1.7x17.0x8.0 in, 4.3x43x20.3 cm (HxWxL)
Weight	3.5 lb, 1,600 g
Material	Aluminum sheet metal

## Included Accessories

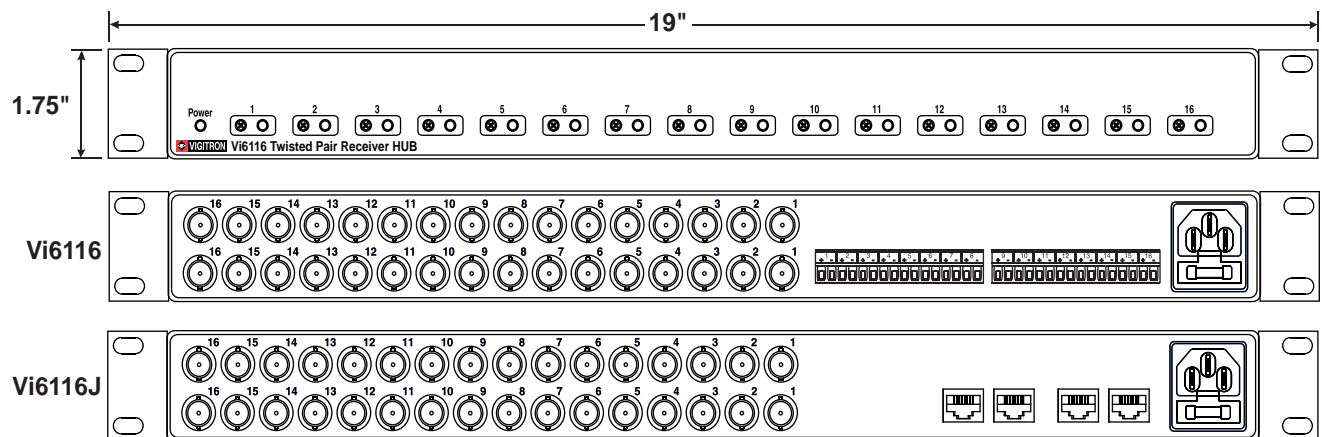
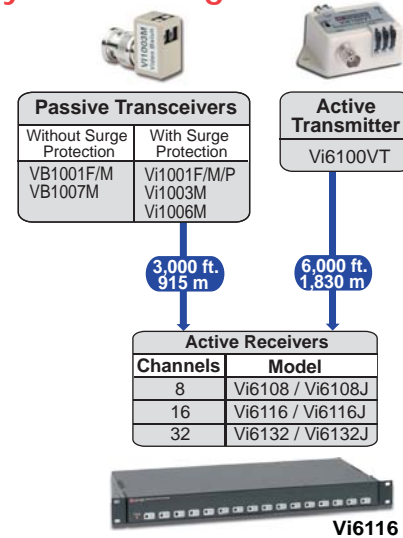
- Mounting brackets for front, rear, or wall installations
- Rubber feet for desk applications
- Sixteen 2 ft. (60 cm) coax jumper cables
- Molded IEC 7 ft. (200 cm) power cord

\*Specifications subject to change without notice.

## Ordering Information

PART No.	Description
<b>Vi6108</b>	<b>8-Ch Active Receiver hub</b>
<b>Vi6116</b>	<b>16-Ch Active Receiver hub</b>
<b>Vi6132</b>	<b>32-Ch Active Receiver hub</b>
<b>Vi6108J</b>	<b>8-Ch Active Receiver hub w/RJ-45</b>
<b>Vi6116J</b>	<b>16-Ch Active Receiver hub w/RJ-45</b>
<b>Vi6132J</b>	<b>32-Ch Active Receiver hub w/RJ-45</b>

## System Configuration



## Wire and Cable Recommendations

The Vigitron products are designed to be used with unshielded twisted pair (UTP) wiring. The UTP wire must be 24AWG - 12AWG or Category 2-7 cable. Multi pair cable with an overall shield is acceptable, however individually shielded pairs should be avoided. Multiple UTP video feeds can be operated in the same communication cable along with telephone, computer, control signals and low power voltages. While UTP video may be routed through punch-down block terminals, any resistive, capacitive or inductive devices (such as T-taps or MOV's) must not be used. Please contact Vigitron for more specific information regarding wire types and proper installation techniques.



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