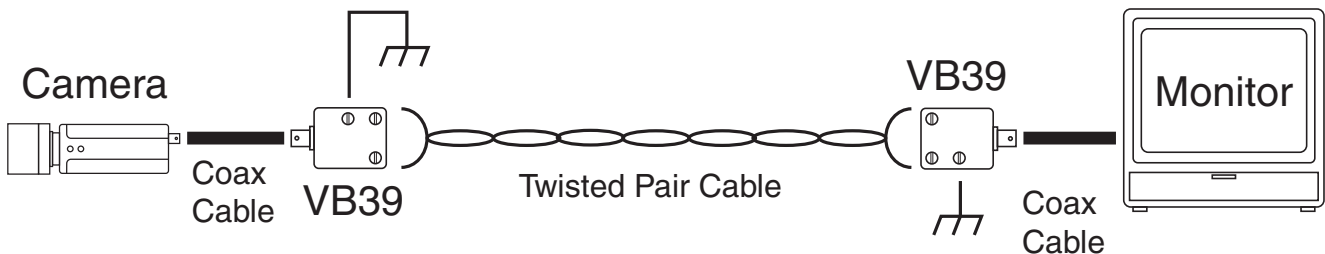


Description

The **VB39M** video balun transceiver is a video transmission device that provides a low cost means of sending live video over unshielded twisted pair, point-to-point wiring for distances up to 230 meters. The VB39M is compatible with all of the “up-the-coax” control systems. A basic system uses (2) VB39 units, one at each end of a twisted pair of wires. These units are intended for use over existing in-house telephone wiring, Category wiring or other twisted pair cable runs to provide a convenient, cost-effective alternative to coax. The VB39M is designed to provide superior immunity from noise and interference even when running next to line power!

Features

- Quality video over ordinary twisted pair cable
- Immunity to noise and interference
- Built-in surge suppression
- Passive devices—do not require power
- Video and P/T/Z over a single pair (with “up-the-coax” systems)
- Mounts directly to camera or video source
- Weather resistant design
- Easier to install than coax



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TECHNICAL SPECIFICATION

VB39MEU0808

Transceiver Unit

Size (mm)	33 H x 51 W x 24 D
Input	1 Vpp composite video Monochrome or Color
Output	Balanced low voltage current loop

System (2 transceivers required)

Video Format	PAL, SECAM, NTSC, RS170, CCIR (Color or B/W)
Video Input	1 Vpp composite video Monochrome or Color
Operating Frequency	DC to 10 MHz
Common Mode Rejection	>60 dB
Wire Size	0,5 to 1,2mm twisted pair
DC Loop Resistance	51 Ohms/300 meters (max)
Nominal Capacitance	56 pF/meter
Impedance	100 Ohms +- 20%
Category Wire	2 or better
Temperature Range	-40°C to +85°C
Humidity Range	0 to 98%, non-condensing
Transient Immunity	6000 V 1,2uS x 50 us Per ANSI / IEE 587 C62.41 B3 3000 A 8us x 20 us when ground screw terminal is connected to earth-ground
Enclosure Material	Black, ABC flame retardant plastic
Twisted Pair Connection	Screw terminals

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.