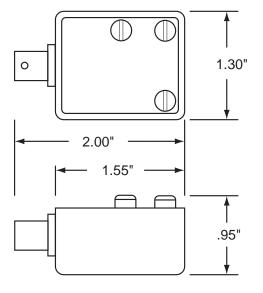


Design for use with

## HD TVI / CVI / AHD

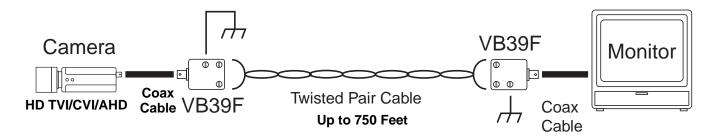


## Description

The HD VB39F video balun transceiver has been designed to meet the needs of the HD TVI/CVI/AHD cameras. The HD VB39F 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 225 meters or 750 feet. The HD VB39F is compatible with all of the "up-the-coax" control systems. A basic system uses (2) HD 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 VB39F is designed to provide superior immunity from noise and interference even when running next to line power!

### **Features**

- Works with any HD/TVI/CVI/AHD or NTSC and PAL
- Quality video over ordinary twisted pair cable
- Immunity to noise and interference
- Passive devices—do not require power
- Video and P/T/Z over a single pair (with "up-thecoax" systems)
- Weather resistant design
  Easier to install than coax











5410 Newport Drive, # 24 Rolling Meadows, IL 60008 Phone: (847) 259-8900 Fax: (847) 259-1300 Eax: mail: info@nitek.net WWW.NITEK.NET EUROPE

De Aar 99 8253 PN Dronten The Netherlands Tel: +31(0) 321 310 043 E-mail: info@nitekeurope.net WWW.NITEK.NET

# TECHNICAL SPECIFICATION

#### **Transceiver Unit**

Size 1.3" H x 2.0" W x .95" D

Input 1 Vpp composite video

Monochrome or Color

Output Balanced low voltage current loop

### System (2 transceivers required)

Video Format HD TVI/CVI/AHD

PAL, SECAM, NTSC, RS170,

CCIR (Color or B/W)

Video Input 1 Vpp composite video

Monochrome or Color

Operating Frequency DC to 40 MHz

Common Mode

>60 dB

Rejection

Wire Size 26 to 18 AWG twisted pair DC Loop Resistance 51 Ohms/1,000 ft (max)

Nominal Capacitance 1

17 pF/ft

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 400 A 1.2uS x 50 us

Per ANSI / IEE 587 C62.41 B3

400 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 26 to 18 AWG but are optimized for 24 AWG. Category cables may be used. Individually shielded pairs should be avoided, as they drastically reduce the operating range of the systems. Multipair 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.