

## VT-401A/401C/402 UTP Video BALUN

VT-401A/401C/402 Video Balun is a passive transmission devices that transmit video signal over unshielded twisted pair wires, point-to-point, for distances up to 1000 feet (330 m). It uses Category 5 UTP, are easy to install and cost effective, and do not require power.

The extremely compact size allows VT-401A/401C/402 to fit anywhere that a BNC can fit. It is ideal for mounting directly on virtually all high-density DVRs without any additional cabling. Its crosstalk and noise immunity ensure quality video signals.

VT-401A/401C/402 can transport quality video up to 4,500 feet (1500m) when used with VT-410R OR VT-440R active UTP Receiver.

VT-401A/401C/402 transceiver offers quality video in a compact size at a highly affordable price. They are ideal for a wide variety of applications such as security, surveillance, and video conferencing.

### FEATURES

- Quality color and B&W video signals over 1000 feet (330 m) of unshielded twisted pair wires
- NTSC, PAL , and SECAM video formats
- No power required
- 60 dB crosstalk and noise immunity
- Compact size and easy installation
- Compatible with all qualified UTP cameras

### APPLICATIONS

- Security and Surveillance
- Elevator Surveillance
- Video Conferencing
- Video Distribution
- P/T/Z control signals
- PC Multimedia

### Technical Specifications

#### Video

Frequency response	DC to 10 MHz
Attenuation	0.5dB typ
CMRR	60 dB
Impedance:	
Coax	75 ohms
Twisted Pair	100 ohms

#### Environmental

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

#### Wire Type

Unshielded Twisted Pair:	24-16 AWG
Category Type :	5or better
Impedance:	100 ohms
DC Loop Resistance :	52 ohms per 1,000 ft
Differential Capacitance :	19pF/ft max

#### Dimensions

VT-401A/401C/402 1.84 (L)\*0.54 (W)\*0.6 (H) in (including BNC)

VT-401A/401C/402 1.26 (L)\*0.97 (W)\*0.61 (H) in (including BNC)

#### Material

ABS Plastic

## Frequently Asked Questions

### Why does my video look like a scrambled Cable TV signal?

This typically indicates reversed polarity.

### Can shielded twisted pair be used?

Some customers have successfully used shielded wire up to a few hundred feet. However Vitech does not recommend it. Its high-frequency roll-off will severely degrade the distance performance.

### Can Category 6 wire be used?

Yes. Unshielded Twisted Pair wire, Category 5 or better, can be used with Vitech

### Can I transmit more than one video signal in a multi-pair wire bundle?

Yes. One of the benefits of using Vitech transceivers is interference rejection. Vitech video signals can reside in the same wire bundle as multiple video signals, ringing telephones, Ethernet, low voltage power, RS-422, RS-485, etc.

## Application Diagram

