

# Vi6100DT

## Active UTP Video and Data Transmitter

### Features

- Quality video and Data over 6000 feet (1830 m) of unshielded twisted pair wires (UTP)
- NTSC, PAL , and SECAM video formats
- Supports RS-422 , RS-485 (2-wire or 4- wire)
- 70 dB cross talk and noise immunity
- Full ground-loop immunity
- Built-in surge protection
- A single distance adjustment for video
- Lever type screw-less wire connectors
- Compact size and easy installation
- Limited Lifetime warranty

### Applications

- Digital Cameras with Control
- Dome Cameras with PTZ Control
- Casino Security
- Hospitals and Airports
- School Campuses

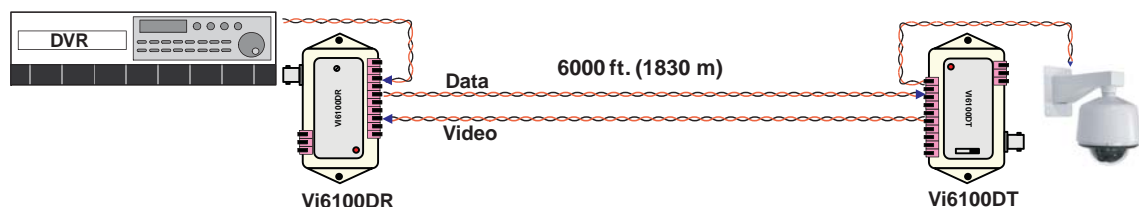


The Vigitron Vi6100DT is an advanced active device that transmits color or B&W video and data over separate point-to-point unshielded twisted pair wires at distances up to 6000 feet (1830 m). The Vi6100DT uses Category 2-7 twisted pair wires, is easy to install and cost effective. It is designed to be paired with Vigitron Vi6100DR active video and data receiver.

The Vi6100DT is a compact unit. The power requirement is 12-24 Volts AC or DC, auto-ranging and reverse polarity protected. This flexibility allows to power the Transmitter from the same power supply as the camera, or it can be used with the provided PSU. The screw-less wire terminals makes the Vi6100DT very easy to install. The Vi6100DT has a single distance adjustment as well as 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 Vi6100DT innovative design offers exceptional quality video and system flexibility that makes it ideal for a wide variety of applications that require video and data such as cameras with PTZ control and digital cameras with control.

### Application Diagram



The smart choice for quality video



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

DSVi6100DT\_0906

# Technical Specification\*

## Electrical

Video Format	NTSC, PAL, SECAM
Data	RS-422 and RS-485 (2-wire or 4-wire)
Frequency	20 Hz to 6 MHz
Coax	75 Ohm
Twisted Pair	100 Ohms +/- 20%, 24 AWG min up to 6000 feet (1830 m) Unshielded Category 2-7
CMRR	70 dB
Power	12V-24V DC/AC, 140 mA max (12V DC Power Supply Included)
Power Indicator	Red LED
Connectors	UTP Video & Data: Screw-less Terminal Blocks Video input: Female BNC Connector Power & Data: Screw-less Terminal Blocks
Transient Immunity	6000V, 1.2 uS x 50 uS

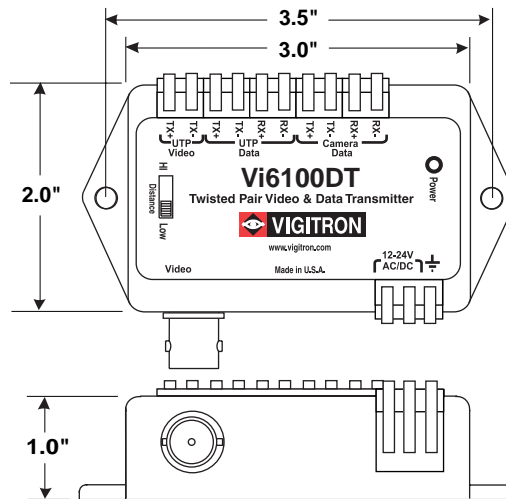
## Environmental

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

## Mechanical

Dimensions	1.6x2.9x1 Inches (41x74x25 mm)
Weight	1.5 oz (40 g)
Material	Bone ABS Plastic, UL rating of 94V-0

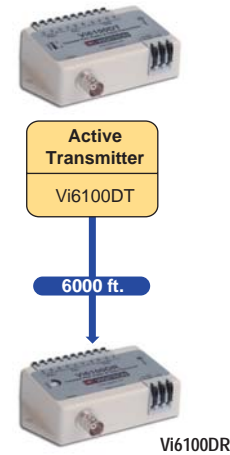
\*Specifications subject to change without notice.



## Ordering Information

PART No.	Description
Vi6100DR	Active Video & Data Receiver
Vi6100DT	Active Video & Data Transmitter

## 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. For more specific information regarding wire types and proper installation techniques, please contact Vigitron for technical assistance.



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