Vi0116D

1 to 16-Port RS485/RS422 Data Distributor

Features

- Receives one input and distributes to up to 16 ports
- Simultaneous data to up to 16 output ports
- Supports both RS422 and RS485 standards automatically
- Up to 3,936 feet (1,200 m) over 3,936 feet (1,200 m) UTP
- Terminal blocks and RJ-45 connectors for UTP connection
- Compact size and easy to install
- Built-in surge protection
- Limited lifetime warranty

Applications

- PTZ Security cameras
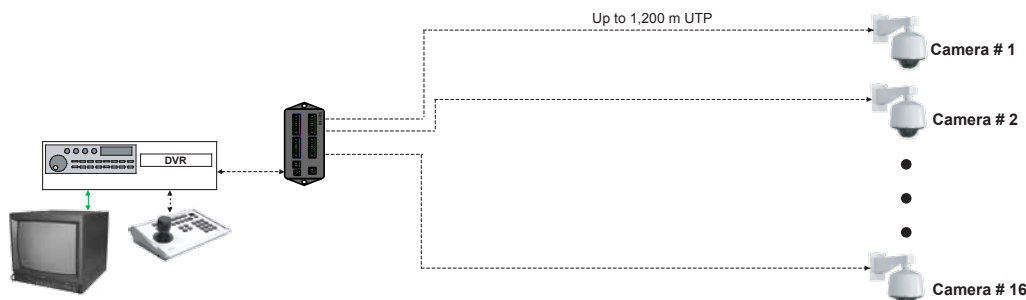- Point of sale devices
- Access control equipment

The Vi0116D is a data distributor that receives PTZ data from a controller such as a DVR and distributes it to multiple PTZ security cameras up to 3,936 feet (1,200 m) of unshielded twisted pair. It supports both RS422 and RS485 standards automatically.

The Vi0116D enables you easily install a telemetry system in "star" configuration rather than "daisy chain". It provides a reliable mean for large scale CCTV systems with multiple PTZ cameras to control each camera individually. Unlike daisy chaining the star configuration provides long distance data reach with flexible installation.

The Vi0116D can be used with both pluggable terminal block and pluggable RJ45 adapters. Multiple Data Distributors can be daisy chained to create as many data lines as required. Up to 2 units can be rack mounted using a 1U blank panel.

The Vi0116D is ideal for multicast data transmission to pan/tilt/zoom cameras (PTZ), point of sale devices (POS) and access control equipment.

Application Diagram

Up to 1,200 m UTP

Camera # 1

Camera # 2

Camera # 16

DVR

VIGITRON

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DSVi0116D_0914

Technical Specification

Electrical

Data Format	RS422 or RS485, auto select,unidirectional
Twisted Pair	100 Ohms +/- 20%, 24 AWG minimum, unshielded category 2-7, up to 3,936 ft.(1,200m)
CMRR	70 dB
Power	12 VDC, 500 mA
Power Indicator	Red LED
Connectors	Data input: Plug-in terminal blocks
	Data outputs: Plug-in terminal blocks or RJ-45 connector
	Power: Terminal blocks
Transient Immunity per ANSI/IEEE 587 C62.41	

Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -20°C to +50°C
	Storage: -30°C to +70°C

Mechanical
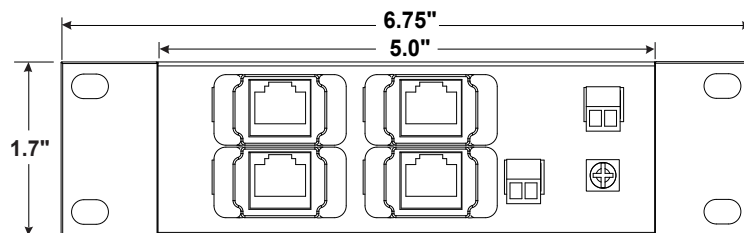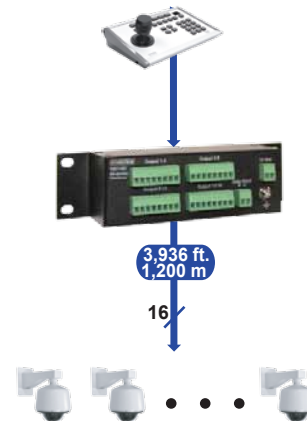
Dimensions	1.7x6.75x1.75 in., 4.3x17.2x4.3 cm (HxWxL)
Weight	0.2lb, 100 g
Material	Extruded Aluminum

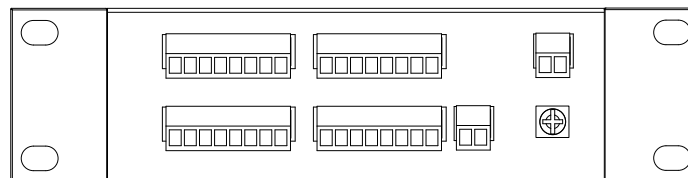*Specifications are subject to change without notice.

Ordering Information

Part No.	Description
Vi0116D	1 to 16-port Data Distributor

System Configuration

3,936 ft.
1,200 m

16

With RJ45 UTP Inputs

6.75"
5.0"
1.7"

With Terminal Block UTP Inputs

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.

VIGITRON

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