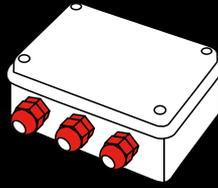


# 13

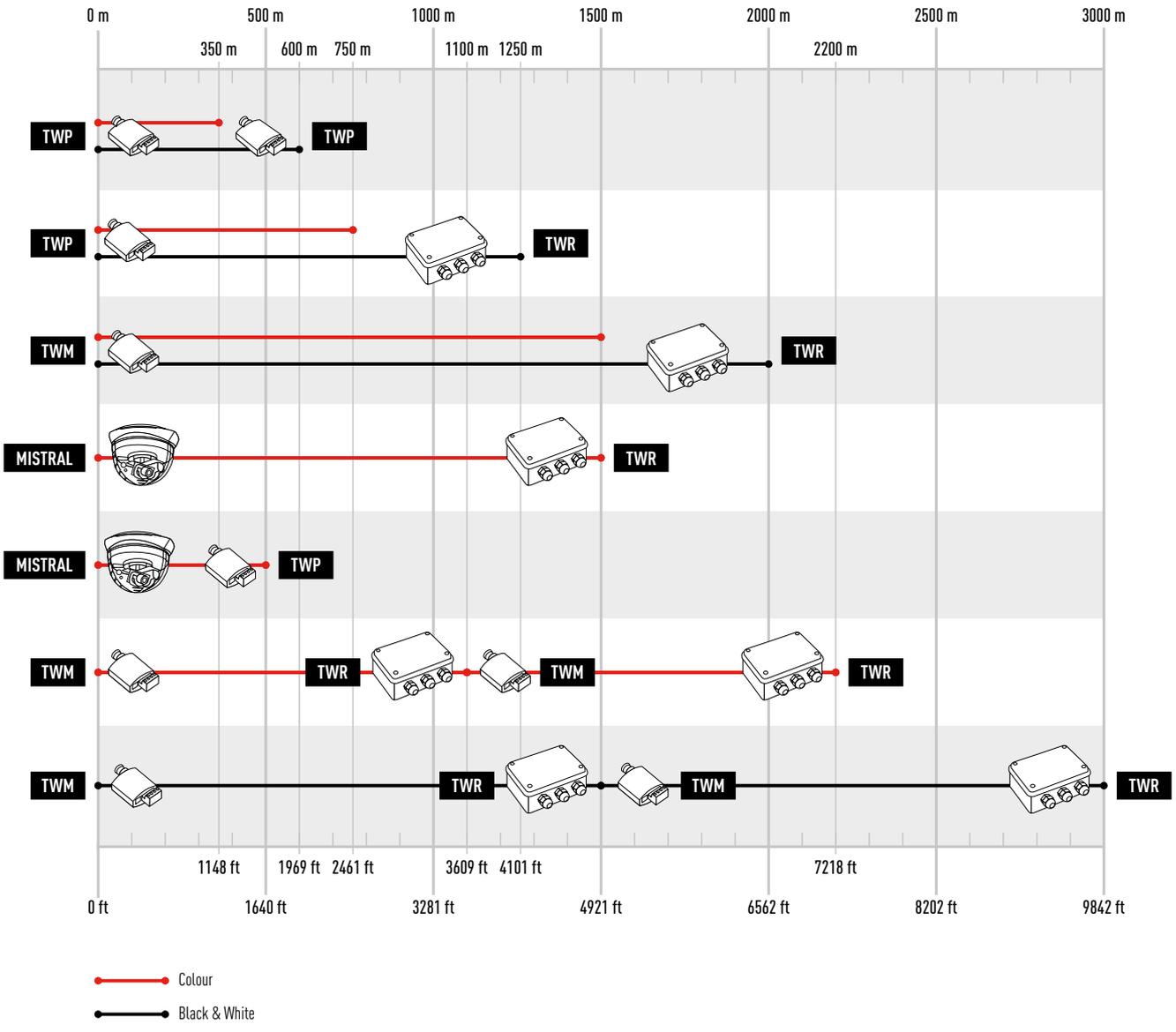


## VIDEO TRANSMISSION AND DISTRIBUTION

The twisted pair video transmitter/receiver system is an interesting solution for all those installations where the distance that the video signal must cover via cable is very long. This is the right alternative to fiber optic systems for distances below 1500m (4921ft). Video distribution amplifiers are available in different models at customer's choice, for every installation requirement.

TW	199
VD	201

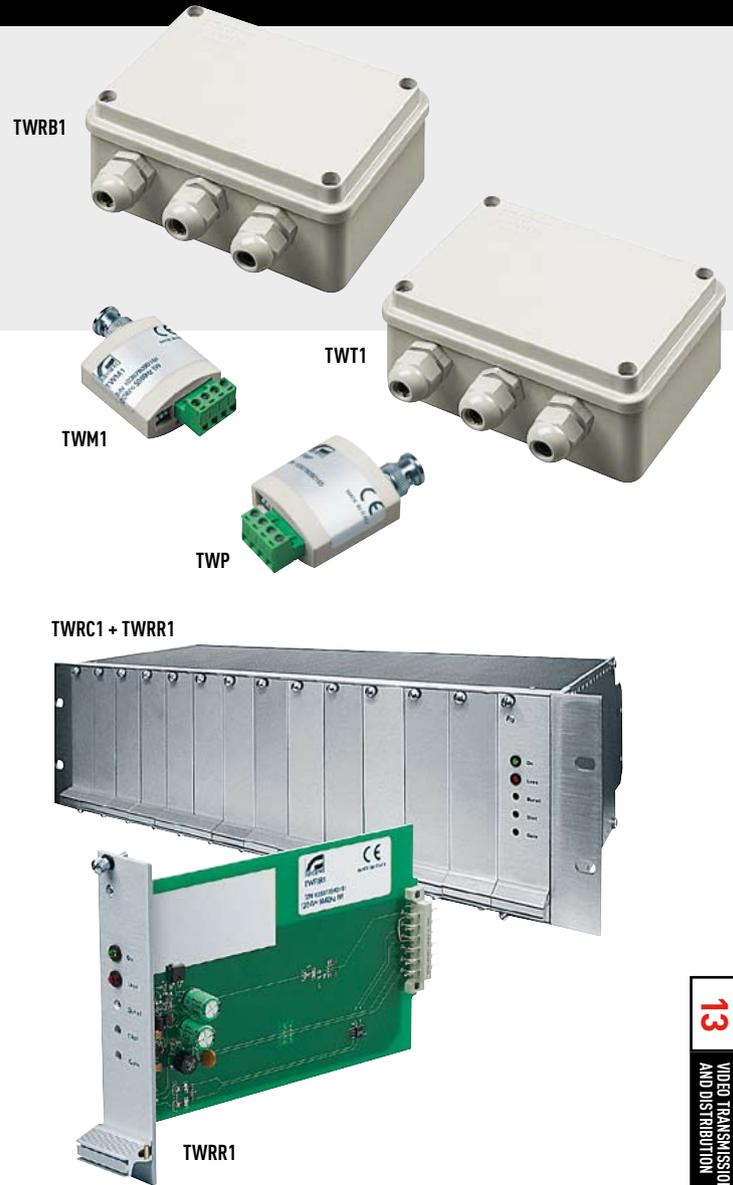
VIDEO TRANSMISSION DISTANCE ON TWISTED PAIR CABLE UTP CAT. 5



- Video transmission over twisted pair cable
- Up to 1500m (4921ft) with UTP Cat.5 cable
- V AC or V DC power supply
- Wide range of versions

The video transmission system over twisted pair consists in a transmitter and a receiver. The transmitter converts the composite video signal from a camera and transmit it over twisted pair, then the receiver converts again the signal in composite video. Both devices can be adjusted allowing amplification and equalisation of the signal then it is possible to cover long distances (up to 1500m for a colour video signal with UTP Cat.5 cable).

A wide range of models is available satisfying any installation requirements. The transmitter is normally supplied in a IP56 enclosure for outdoor installation: available in two versions, 12V DC/24V AC TWT1 and 230V AC, 50Hz TWT1A. A mini version TWM1 is also available, fed in low voltage, for installation in the outdoor camera housing. The receivers are normally supplied in a IP56 enclosure for outdoor installation: low voltage version TWRB1 12V DC/24V AC and high voltage TWRB1A 230V AC, 50Hz. The receiver is also available on Europe card TWRR1, fed in low voltage, for rack installation.



13 VIDEO TRANSMISSION AND DISTRIBUTION

**TWRB1**



**TWRB1A**



**TECHNICAL DATA**

**GENERAL**

Immunity to ground loops  
Protection against over voltage  
Active transmitters: TWM1, TWT1, TWT1A  
Active receivers: TWRR1, TWRB1, TWRB1A  
Passive transmitter and receiver: TWP

**Max distance with UPT Cat.5**

Active transmitter and receiver  
- 1500m (4921ft) color signal  
- 2000m (6561ft) white / black signal

Passive transmitter and receiver  
- 350m (1148ft) color signal  
- 600m (656ft) white / black signal

Passive transmitter TWP and receiver TWRR1, TWRB1, TWRB1A  
- 750m (2460ft) color signal  
- 1250m (4101ft) white / black signal

Transmission between MISTRAL compact dome and passive receiver TWP  
- 500m (1640ft) color signal

Transmission between MISTRAL compact dome and receiver TWRR1, TWRB1, TWRB1A  
- 1500m (1640ft) color signal

Supplied with instruction manual

*Retrofit on previous models: contact Videotec for further specifications.*

**MECHANICAL**

**TWP - TWM1**  
Dimensions: 40x25x63mm (1.6x0.9x2.5in) connector not included

**TWT1 - TWRB1 - TWT1A - TWRB1A**  
Plastic enclosure  
Dimensions: 129x89x58mm (5x3.5x2.3in) cable-glands not included

**TWRR1**  
Dimensioni: 3Ux6TEx190mm (7.5in) Eurocard

**TWRC1**  
Dimensions: 19", 3U/84TE

**ELECTRICAL**

Transmitter video input: 1.0Vpp, 75 Ohm  
Transmitter video output: 2x0.5Vpp  
Receiver video input: 0.05Vpp - 0.55Vpp  
Receiver video output: 1.0Vpp - 2.5Vpp  
Transmitter video output impedance: 110 Ohm  
Receiver video input impedance: 100 Ohm±10%  
Power supply TWT1 / TWM1 / TWRB1 / TWRR1: 12V DC/24V AC  
Power supply TWT1A / TWRB1A: 230V AC  
Consumption max: 2W  
Used cable UTP Cat.5 or above, 24AWG, 100 Ohm

**COMMUNICATIONS**

Ability to increase the distances using intermediate pairs of transmitters/receivers (in this case with recommend non exceeding 3/4 of the maximum distance for the individual sector)

With cable UTP Cat.5

**TWRC1**

Consumption: 30W

**Power supply**

- IN 100-240V AC - OUT 12V DC, 47/63Hz, 2A

**RELATED PRODUCTS**

**MISTRAL** Dome Camera

**ENVIRONMENT**

Indoor / Outdoor for TWT1, TWRB1, TWT1A and TWRB1A  
Indoor for TWM1 and TWRR1  
Operating temperature: -10°C / +50°C (14°F / 122 F°) for TWM1, TWT1, TWRB1, TWT1A e TWRB1A  
Operating temperature: -20°C / +75°C (-4°F / 167°F) per TWP

**COMPLIANCE TO**

CE according to EN 61000-6-3, EN 60950, EN 50130-4  
TWT1, TWRB1, TWT1A and TWRB1A: IP56

	Unit Weight:	Package Weight:	Package Dimensions (BxHxL):	Master Carton:
	<b>TWM1</b> 0.1kg / 0.2lb	<b>TWM1</b> 0.1kg / 0.2lb	<b>TWM1</b> 16.2x13x7cm / 6.3x5.1x2.8in	<b>TWM1</b> -
	<b>TWT1</b> / TWT1A 0.1kg / 0.2lb	<b>TWT1</b> / TWT1A 0.1kg / 0.2lb	<b>TWT1</b> / TWT1A 16.2x13x7cm / 6.3x5.1x2.8in	<b>TWT1</b> / TWT1A -
	<b>TWRB1</b> / TWRB1A 0.2kg / 0.4lb	<b>TWRB1</b> / TWRB1A 0.2kg / 0.4lb	<b>TWRB1</b> / TWRB1A 16.2x13x7cm / 6.3x5.1x2.8in	<b>TWRB1</b> / TWRB1A -
	<b>TWRR1</b> 0.1kg / 0.2lb	<b>TWRR1</b> 0.1kg / 0.2lb	<b>TWRR1</b> 22x14.5x4.6cm / 8.6x5.7x1.8in	<b>TWRR1</b> -
	<b>TWRC1</b> 3kg / 6.6lb	<b>TWRC1</b> 3.7kg / 8.2lb	<b>TWRC1</b> 55x30x18cm / 21.6x11.8x7in	<b>TWRC1</b> -
	<b>TWP</b> 0.1kg / 0.2lb	<b>TWP</b> 0.1kg / 0.2lb	<b>TWP16.2x13x7cm</b> / 6.3x5.1x2.8in	<b>TWP</b> -


**VD48P - VD18T**

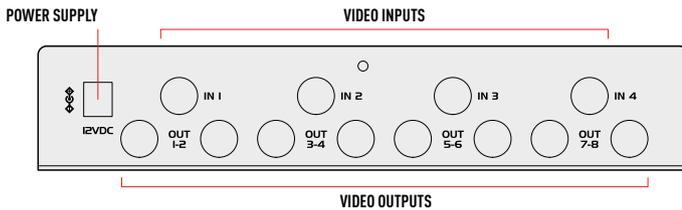
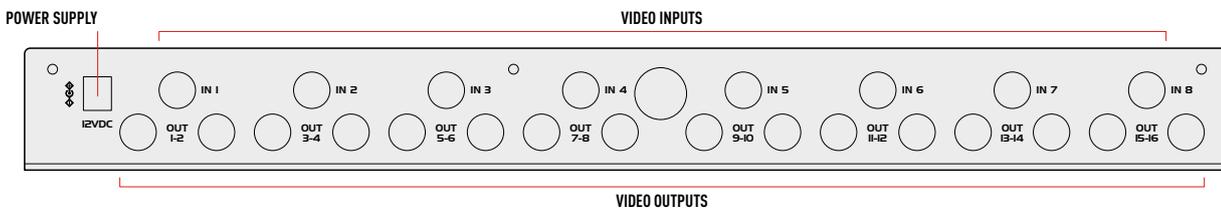
- Ideal to distribute equal video signals to several locations
- Multiple configurations available
- Versions for 1,4,8 inputs and 8, 16 outputs
- 19" rack version available


**VD816PR**

The video distributor is a basic component for a CCTV system in which it is necessary to distribute equal video signals to multiple locations. In the VD18T1 unit, the single video input signal is amplified and distributed to 8 outputs. No adjustment is needed. If an adjustable gain is required for each video output, together with a higher quality signal, the VD48P1 version with 8 outputs is the solution.

Furthermore, it is capable of modifying the input/output configuration by means of internal jumpers.

The VD816PR1 is the 19" 1U rack version contain two VD48P1. All units are mounted in a sturdy metal case, painted with epoxy polyester powder.

**VD48P1**

**VD816PR1**


**TECHNICAL DATA**

**GENERAL**

Supplied with instruction manual, 3 power cables, power supply 100-240V AC, 47/63Hz, 15W

**VD18T1**

1 Input, 8 Output

**VD48P1**

4 Input, 8 Output

Ability to obtain different configurations (1In/4Out + 1In/4Out, 1In/6Out + 1In/2Out, 1In/8Out, 4x1In/2Out)

**VD816PR1**

8 Input, 16Output

Ability to obtain different configurations (1In/4Out + 1In/4Out + 1In/4Out + 1In/4Out, 1In/6Out + 1In/2Out + 1In/6Out + 1In/2Out, 1In/8Out + 1In/8Out, 8x1In/2Out)

**MECHANICAL**

Metal enclosure

Epoxy polyester powder coated grey colour

**VD18T and VD48P**

9 BNC connectors (VD18T1), 12 connectors BNC (VD48P1)

Power supply jack connector

Dimensions: 220x40x180mm (8.7x1.6x7in)

**VD816PR1**

24 BNC connectors

Power supply jack connector

Dimensions: Rack 19" 1U

**ELECTRICAL**

Power consumption: 15W

Input/output video impedance: 1Vpp, 75 Ohm

Power Supply: 12V DC

**Power supply**

- IN 100-240V AC - OUT 12V DC, 47/63Hz, 15W

**VD18T1**

Video signal gain: 1.04

Bandwidth: 10Hz / 6 Mhz (-3dB)

Crosstalk: >58dB (5 Mhz)

**VD48P1**

Video signal gain up to 2

Bandwidth: 10Mhz (-3 dB)

Crosstalk: >58dB (5Mhz)

**VD816PR**

Video signal gain up to 2

Bandwidth: 10Mhz (-3dB)

Crosstalk: >58dB (5Mhz)

**ENVIRONMENT**

Indoor

Operating temperature: from 0°C / +40°C (+32°F / +104°F)

**COMPLIANCE TO**

CE according to EN 61000-6-3, EN 60950-1, EN 50130-4

	<b>Unit Weight:</b>	<b>Package Weight:</b>	<b>Package Dimensions (BxHxL):</b>	<b>Master Carton:</b>
	<b>VD18T1</b> 1.5kg / 3.3lb <b>VD48P1</b> 1.6kg / 3.5lb <b>VD816PR1</b> 2kg / 4.4lb	<b>VD18T1</b> 1.7kg / 3.8lb <b>VD48P1</b> 1.8kg / 4lb <b>VD816PR1</b> 2.2kg / 4.8lb	<b>VD18T1</b> 19x10.5x26cm / 7.4x4.1x10.2in <b>VD48P1</b> 19x10.5x26cm / 7.4x4.1x10.2in <b>VD816PR1</b> 5.2x18.5x51.5cm / 2x7.3x20.3in	<b>VD18T1</b> 25 units <b>VD48P1</b> 15 units <b>VD816PR1</b> 4 units