

### MAIN FEATURES

- Video transmission over twisted pair cable

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- Up to 1500m (4921ft) with UTP Cat.5e cable

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- Vac or Vdc power supply

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- Wide range of versions

### DESCRIPTION

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.5e 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, 12Vdc/24Vac (TWT2) and 230Vac, 50/60Hz (TWT2A). A mini version (TWM2) 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 TWRB2 12Vdc/24Vac and high voltage TWRB2A 230Vac, 50/60Hz. The receiver is also available on Europe card TWRR2, fed in low voltage, for rack installation.

The new TWPL1 can bring the video, the power supply and the telemetry in one Cat.5e cable.



TWRB2



TWRB2A



TWRR2



TWRC1+TWRR2



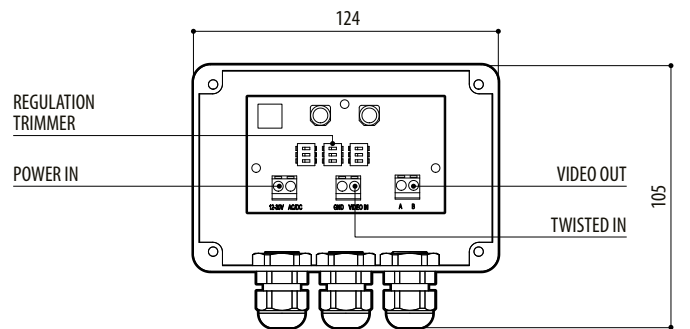
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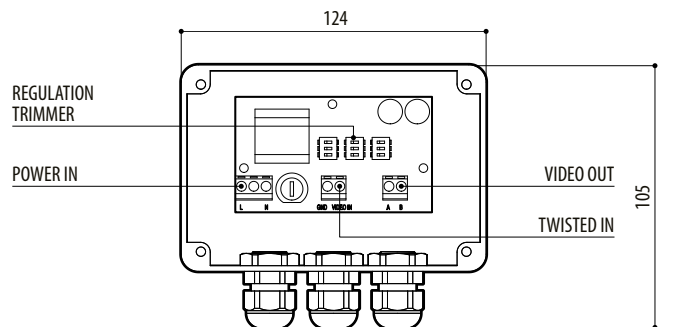
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TW PL



TWRB2



TWRB2A

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**TECHNICAL DATA****GENERAL**

Immunity to ground loops

Protection against over voltage

Active transmitters: TWM2, TWT2, TWT2A

Active receivers: TWRR2, TWRB2, TWRB2A

Passive transmitter and receiver: TWP, TWPL1

**MAX DISTANCE WITH UTP CAT.5E**

Active transmitter and receiver

- 1500m (4921ft) colour signal
- 2000m (6561ft) B/W signal

Passive transmitter and receiver

- 350m (1148ft) colour signal
- 600m (1968ft) B/W signal

Passive transmitter TWP and receiver TWRR2, TWRB2, TWRB2A

- 750m (2460ft) colour signal
- 1250m (4101ft) B/W signal

Passive transmitter and receiver TWPL1

- 100m (328ft) colour signal

Passive transmitter TWPL1 and active receiver TWRR2, TWRB2, TWRB2A

- 750m (2460ft) colour signal

Supplied with instruction manual

*Retrofit on previous models: contact VIDEOTEC for further specifications.***MECHANICAL****TWP - TWM2**

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

**TWPL1**

Dimensions: 22x47x32mm (0.87x1.85x1.26in) connector and cable not included

**TWT2 - TWRB2 - TWT2A - TWRB2A**

Plastic enclosure

Dimensions: 129x89x58mm (5x3.5x2.3in) cable-glands not included

**TWRR2**

Dimensions: 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 TWT2 / TWM2 / TWRB2 / TWRR2: 12Vdc/24Vac

Power supply TWT2A / TWRB2A: 230Vac

Consumption max: 2W

Power pass through TWPL1: 250mA at 300m, 1A at 30m on AWG24 cables

Used cable UTP Cat.5e or above, 24AWG, 100 Ohm

**COMMUNICATIONS**

Ability to increase the distances using intermediate pairs of transmitters/receivers (in this case we recommend not exceeding 3/4 of the maximum distance for the individual sector)

With cable UTP Cat.5e

**TWRC1**

Consumption: 30W

Power supply supplied with TWRC1

- IN 100-240Vac - OUT 12Vdc, 47/63Hz, 2A

**ENVIRONMENT**

Indoor / Outdoor for TWT2, TWRB2, TWT2A and TWRB2A

Indoor for TWRC1, TWP, TWPL1, TWM2 and TWRR2

Operating temperature: -10°C / +50°C (14°F / 122°F) for TWM2, TWT2, TWRB2, TWT2A e TWRB2A

Operating temperature: -20°C / +75°C (-4°F / 167°F) for TWP

Operating temperature for TWPL1: 0°C / +85°C (32°F / +185°F)

**CERTIFICATIONS**

CE EN61000-6-3, EN60950-1, EN50130-4

TWT2, TWRB2, TWT2A and TWRB2A: IP56

**PACKAGE**

| Code           | Unit weight |     | Package weight |     | Package dimensions (WxHxL) |               | Master carton<br>unit |
|----------------|-------------|-----|----------------|-----|----------------------------|---------------|-----------------------|
|                | kg          | lb  | kg             | lb  | cm                         | in            |                       |
| TWM2           | 0.1         | 0.2 | 0.1            | 0.2 | 16.2x13.0x7.0              | 6.3x5.1x2.8   | -                     |
| TWT2 / TWT2A   | 0.1         | 0.2 | 0.1            | 0.2 | 16.2x13.0x7.0              | 6.3x5.1x2.8   | -                     |
| TWRB2 / TWRB2A | 0.2         | 0.4 | 0.2            | 0.4 | 16.2x13.0x7.0              | 6.3x5.1x2.8   | -                     |
| TWRR2          | 0.1         | 0.2 | 0.1            | 0.2 | 22.0x14.5x4.6              | 8.6x5.7x1.8   | -                     |
| TWRC1          | 3.0         | 6.6 | 3.7            | 8.2 | 55.0x30.0x18.0             | 21.6x11.8x7.0 | -                     |
| TWP            | 0.1         | 0.2 | 0.1            | 0.2 | 16.2x13.0x7.0              | 6.3x5.1x2.8   | -                     |
| TWPL1          | -           | -   | -              | -   | -                          | -             | -                     |

