



# TRM 101

## VIDEO TWISTED-PAIR RECEIVER

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This unit is produced to comply with Directive 89/336/EEC.

## PREFACE

The video twisted-pair receiver TRM 101 is a correction amplifier with symmetrical input and standard asymmetrical video output. Standard BNC type output connector enables the TRM 101 to be used with other CCTV amplifiers, switchers,

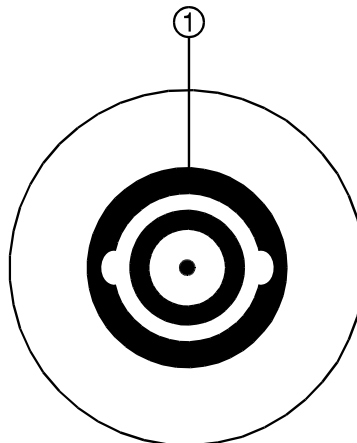
cameras, monitors and digital video recorders All adjustments are available with only two jumpers to adjust the video signal gain on whole frequency range.

## FEATURES

- very small dimensions
- simple installation
- AC/DC power supply
- very low power consumption
- over-voltage protection

## CONTROLS AND CONNECTORS

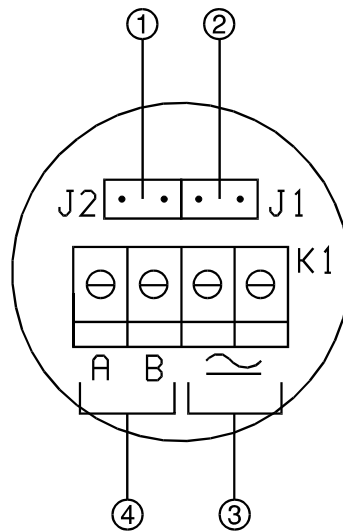
### FRONT VIEW



### (1) VIDEO OUTPUT

BNC video output connector to connect and mount the TRM 101 directly to the CCTV equipment.

## REAR VIEW



### (1) JUMPER J2

Jumper to adjust the video signal gain for distances of the twisted-pair cable from 750m to 900m. When the jumper J2 is inserted the jumper J1 has to be removed.

### (2) JUMPER J1

Jumper to adjust the video signal gain for distances of the twisted-pair cable from 450m to 750m. When the jumper J1 is inserted the jumper J2 has to be removed.

### (3) AC/DC POWER SUPPLY

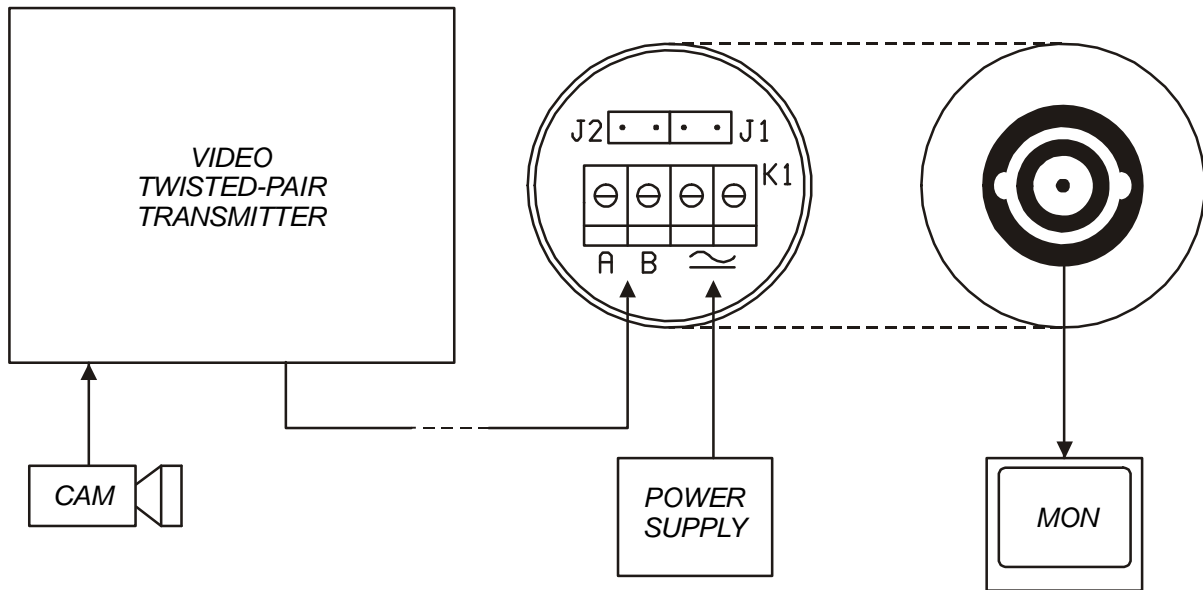
Terminal block to connect the AC or DC power supply from 12V to 24V.

### (4) TWISTED-PAIR INPUT

Terminal block to connect the twisted-pair cable.

## CONNECTIONS

- Be sure to switch-off the power supply unit before connecting to other equipment.
- Also refer to the instruction manual of the equipment to be connected.



## INSTALLATION

The unit is suitable to use CAT 5 or other UTP (Unshielded Twisted Pair) cables, where is possible to connect one or more units and enable to pass more than one video signal through the same cable.

- (1) Connect the BNC video output connector to the video monitor.
- (2) Connect the twisted-pair cable to the video input terminal block connector.
- (3) Connect the power supply unit. (AC or DC)
- (4) Remove the jumper **J1**, for the distances up to 450m.
- (5) Switch-on the video monitor.
- (6) Switch-on the power supply unit.
- (7) Check the video signal on the video monitor.
- (8) If there is too much noise in the signal, for the distances longer than 100m, set the pre-emphasis to **+10 dB** in the video twisted-pair transmitter.
- (9) Check the video signal on the video monitor.
- (10) If there is still too much noise in the signal, for the distances from 450m to 750m insert the jumper **J1**.  
For the distances longer than 750m, remove the jumper **J1** and insert the jumper **J2**.

Maximum distances (CAT 5 UTP Cable) between different models of video twisted-pair transmitters and receivers:

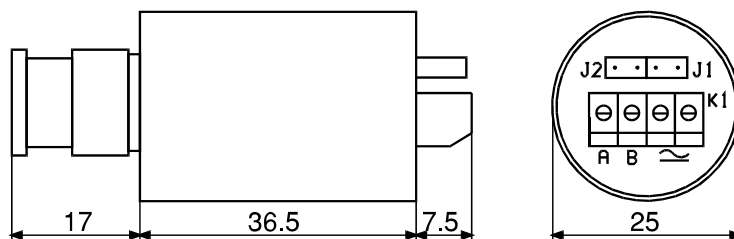
Model	TT 101	TT 101S	TTP 101	TTR 101	TTR 202	TTM 101	TTM 101C
TR 101	1600	1600	1800	1600	1600	1800	1800
TR 101L	1500	1500	1500	1500	1500	1500	1500
TR 101LS	1500	1500	1500	1500	1500	1500	1500
TRP 101	1600	1600	1800	1600	1600	1800	1800
TRP 101L	1500	1500	1500	1500	1500	1500	1500
TR 404L	1500	1500	1500	1500	1500	1500	1500
TR 404LP	1500	1500	1500	1500	1500	1500	1500
TR 808L	1500	1500	1500	1500	1500	1500	1500
TR 808LP	1500	1500	1500	1500	1500	1500	1500

<b>TR 1616L</b>	1500	1500	1500	1500	1500	1500	1500
<b>TR 1616LP</b>	1500	1500	1500	1500	1500	1500	1500
<b>TRR 101</b>	1600	1600	1800	1600	1600	1800	1800
<b>TRR 101L</b>	1500	1500	1500	1500	1500	1500	1500
<b>TRR 202L</b>	1500	1500	1500	1500	1500	1500	1500
<b>TRM 101</b>	850	850	900	850	850	900	900
<b>TRM 101C</b>	850	850	900	850	850	900	900

<b>Model</b>	<b>TT 404</b>	<b>TT 404P</b>	<b>TT 808</b>	<b>TT 808P</b>	<b>TT 1616</b>	<b>TT 1616P</b>
<b>TR 101</b>	1600	1600	1600	1600	1600	1600
<b>TR 101L</b>	1500	1500	1500	1500	1500	1500
<b>TR 101LS</b>	1500	1500	1500	1500	1500	1500
<b>TRP 101</b>	1600	1600	1600	1600	1600	1600
<b>TRP 101L</b>	1500	1500	1500	1500	1500	1500
<b>TR 404L</b>	1500	1500	1500	1500	1500	1500
<b>TR 404LP</b>	1500	1500	1500	1500	1500	1500
<b>TR 808L</b>	1500	1500	1500	1500	1500	1500
<b>TR 808LP</b>	1500	1500	1500	1500	1500	1500
<b>TR 1616L</b>	1500	1500	1500	1500	1500	1500
<b>TR 1616LP</b>	1500	1500	1500	1500	1500	1500
<b>TRR 101</b>	1600	1600	1600	1600	1600	1600
<b>TRR 101L</b>	1500	1500	1500	1500	1500	1500
<b>TRR 202L</b>	1500	1500	1500	1500	1500	1500
<b>TRM 101</b>	850	850	850	850	850	850
<b>TRM 101C</b>	850	850	850	850	850	850

The maximum distance can also be increased by using the cable with lower cable attenuation – like PE cable (A-2Y (L) 2Y)

## APPEARANCE



## SPECIFICATIONS

Video input	0.6 – 1 Vpp, terminal block (jumpers J1, J2)
Video output	1 Vpp, 75 $\Omega$ , BNC
Input impedance	120 $\Omega$
Freq. response	50 Hz - 5 MHz (-3 dB)
Gain adjustment	<b>J1:</b> +12 dB, <b>J2:</b> +15 dB
Power supply	12-24 V, AC/DC, 20 mA max.
Power supply protection	Varistor
Input protection	TransZorb
Casing	Nickel-plated
Diameter	$\Phi$ 25 mm
Length (incl. BNC and terminal block)	61 mm

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