

TTM 101

VIDEO TWISTED-PAIR TRANSMITTER

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

PREFACE

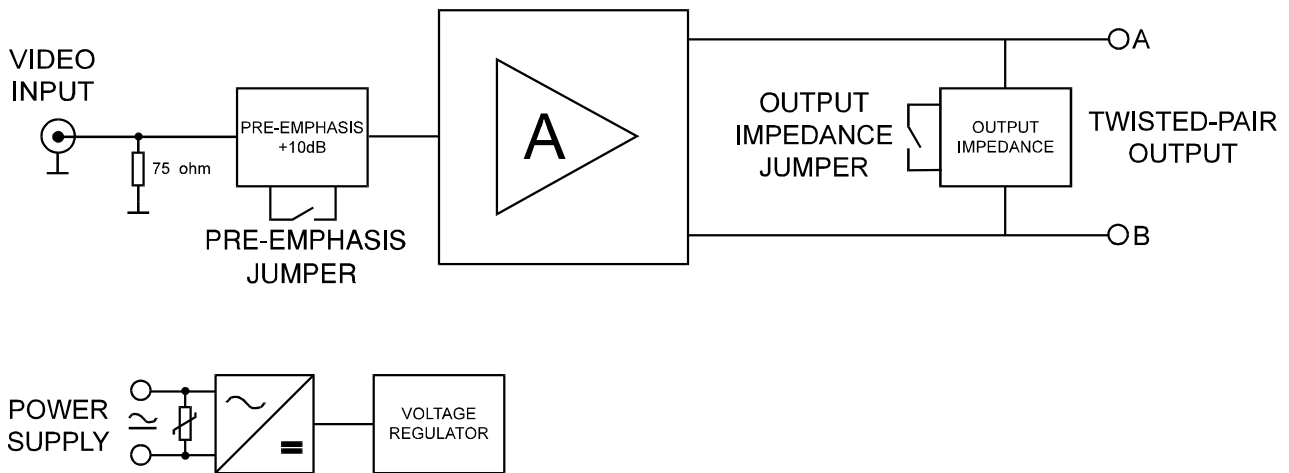
The video twisted-pair transmitter TTM 101 is a correction amplifier with the standard asymmetrical video input and symmetrical output which is adjusted to connect the twisted-pair

cable. It has very small dimensions to locate directly on the camera output BNC. The choice of output impedance allows the use of different kinds of cables.

FEATURES

- very small dimensions
- simple installation
- AC/DC power supply
- very low power consumption
- over-voltage protection
- dual output impedance
- pre-emphasis +10 dB / 5 MHz

BLOCK DIAGRAM



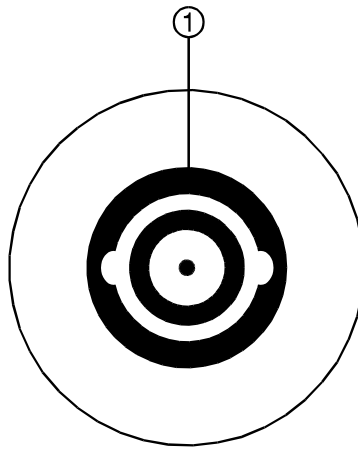
PRINCIPLE OF OPERATION

The input is closed with the impedance of 75 Ω . Then follows the stage which defines the pre-emphasis. By means of the amplifier stage two signals separated by 180° appear on the output A and B.

The output impedance jumper enables a choice of output impedance - 125 Ω or 90 Ω . The power is supplied by connecting to the AC or DC power supply unit.

CONTROLS AND CONNECTORS

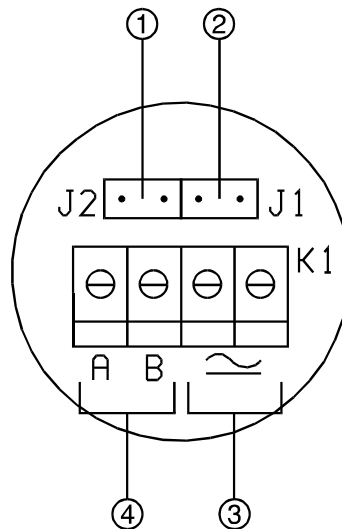
FRONT VIEW



(1) VIDEO INPUT

BNC video input connector to connect and mount the TTM 101 directly on the video camera.

REAR VIEW



(1) JUMPER J2

Jumper to select the output impedance. When the jumper is removed the impedance is 125 ohm.

(2) JUMPER J1

Jumper to activate the pre-emphasis when the TTM 101 is used for long distance transmission. When the jumper is removed the pre-emphasis is inactive.

(3) AC/DC POWER SUPPLY

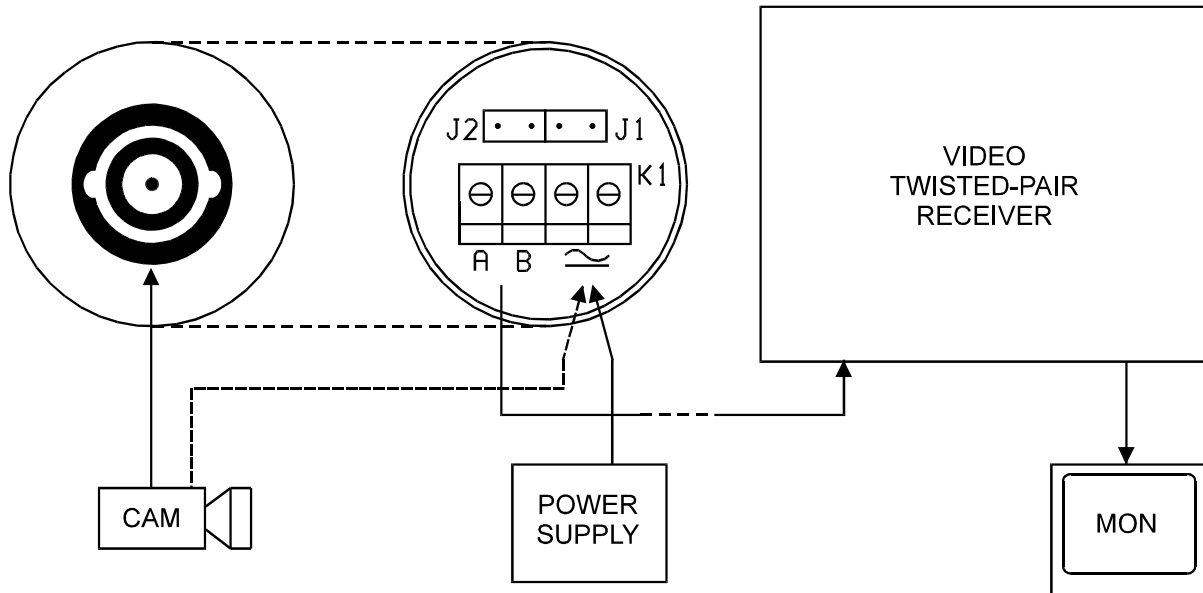
Terminal block to connect the AC or DC power supply from 12V to 24V.

(4) TWISTED-PAIR OUTPUT

Terminal block to connect the twisted-pair cable.

CONNECTIONS

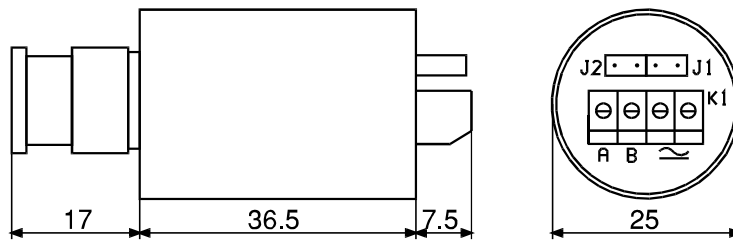
- Be sure to switch-off the power supply unit before connecting to other equipment.
- Also refer to the instruction manual of the equipment to be connected.



INSTALLATION

- (1) Remove the jumper **J1**. (0 dB)
- (2) Insert or remove the jumper **J2** to set the correct cable impedance.
(125 ohm for PE or PAPER, 90 ohm for PVC cable insulation)
- (3) Connect the power supply unit. (AC or DC)
- (4) Connect the video test generator (1 Vpp / 75 Ω) to the video input connector.
- (5) Switch-on the power supply unit.
- (6) Switch-on the video test generator.
- (7) Check the positive video output signal between **A** and ^ (casing).
- (8) Check the negative video output signal between **B** and ^ (casing).
- (9) Switch-off the power supply unit.
- (10) Switch-off the video test generator.
- (11) Disconnect the video test generator.
- (12) Connect the twisted-pair cable to the terminal block connector.
- (13) Connect the video source (video camera) to the video input connector.

APPEARANCE



SPECIFICATIONS

Video input	1 Vpp, 75 Ω
Video output	2 x 2 Vpp
Output impedance	125 Ω / 90 Ω (J1)
Freq. response	30 Hz - 5 MHz (-0.5 dB)
Pre-emphasis	+10 dB, 5 MHz (J2)
Power supply	12-24 V, AC/DC, 20 mA max.
Power supply protection	varistor
Casing	nickel-plated
Diameter	Φ 25 mm
Length (incl. BNC and terminal block)	61 mm

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