



P-TR1
v1.0
P-TR1

Set of passive video transmitters with BNC plug on the cable



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Supersedes edition: -----

EN*

1. Technical description.

The P-TR1 is a set of passive devices for video transmission using twisted-pair cable. These elements match the impedance of the coaxial cable (75Ω) to the impedance of the symmetrical cable (100Ω).

In order to obtain the best quality of transmission and interference resistance the UTP cable Cat. 5 (or higher) is recommended. When connecting, make sure that the transmission uses cables from the same twisted pair and properly connect the cables to the screw terminals, "+" to "+" and "-" to "-".

Improper connection will result in image distortion.

The P-TR1 is ended with BNC plug on the cable. Such design allows easy connection of these elements to devices, where the sockets are arranged close to each other.

2. Technical parameters.

The video signal	1,0V _{p-p} , 75Ω
Video transmission range	400m (color), 600m (B/W) / UTP 5e or higher
Video bandwidth	0 ... 50 MHz (-3 dB)
Impedance of the coaxial connector / connector type	75Ω / BNC plug (using the 100mm cable)
Impedance of the unbalanced connector / connector type	100Ω / screw terminals
Attenuation (loop-through)	-0,5dB / 5MHz
CMRR	60dB / 5MHz
Operation temperature	-20°C ÷ 55°C
Storage temperature	-40°C ÷ 60°C
Permissible relative humidity	<95%
Dimensions	15 × 15 × 47mm (with cable - 155mm length)
Net / gross weight	0,04kg
Declarations, warranty	CE, one year from the production date

3. P-TR1: Examples of application.

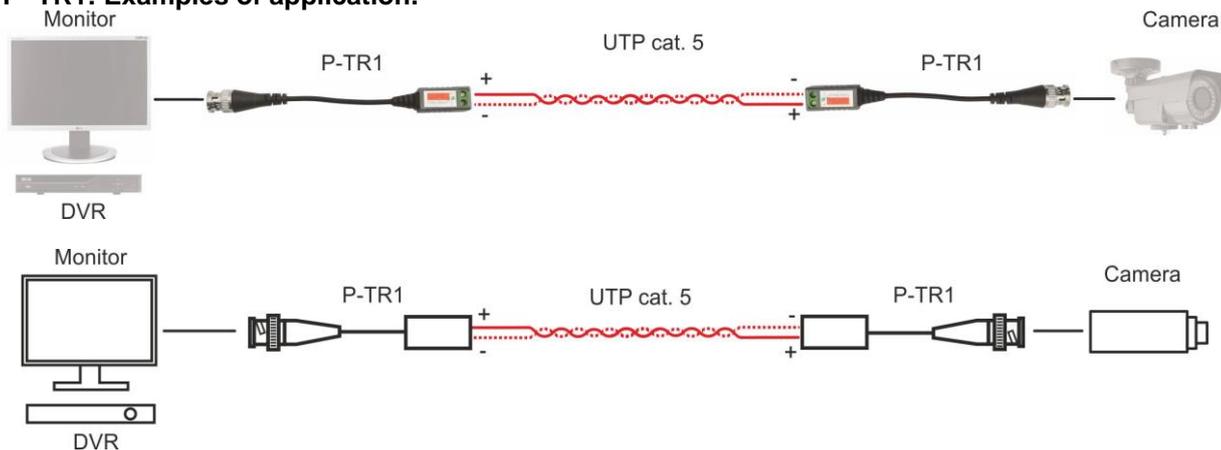


Fig. 1. Video image transmission using twisted-pair cable

Advantages of using twisted pair cable compared to coaxial cable include:

- longer distance video transmission and greater resistance to interference,
- no need to replace the wiring when switching to IP based monitoring system in the future,
- smaller cable cross-section (when more than one video signal is sent), lower cost of the cable

The P-TR2 set of transformers, in which the BNC plug is located directly on the housing of the transformer, is also available.

WEEE Label

Waste electrical and electronic equipment must not be disposed of with normal household waste. According to the European Union WEEE Directive, waste electrical and electronic equipment should be disposed of separately from normal household waste.

WARRANTY

Pulsar K. Bogusz Sp.j. (manufacturer) grants a one year warranty for the equipment, starting from the production date.

Pulsar K.Bogusz Sp.j.

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