

CODE: **P-TRPV1** v.1.0/I
 TYPE: **P-TRPV1 -set of passive HD video and power transmitters**

EN**



DESCRIPTION

The P-TRPV1 is a set of passive devices used for HD video and power transmission using a twisted pair cable.

The video signal is transmitted using one twisted pair, while the power is supplied using two twisted pair cables. The set of devices matches the impedance of the coaxial cable (75Ω) to the impedance of the symmetrical cable (100Ω). In order to achieve the best transmission quality and interference immunity, use UTP cable cat. 5 (or higher). Make sure the cable is properly prepared when making the connection. The RJ45 terminal crimp diagram is shown in Figure 1 presented below:

Caution! An improperly made cable may cause damage to the camera.

The P-TRPV1 modules are terminated with two types of connectors:

- a) the BNC plug (HD-CVI / HD-TVI / AHD video transmission),
- b) JACK 2,5 / 5,5 power socket (camera power supply).

Each module is equipped with two LEDs (located next to the RJ45 connector). Green LED indicating the supply voltage. Yellow LED is unused.

TECHNICAL DATA

The video signal	1,0V _{p-p} , 75 Ω
Video transmission range (UTP 5e or higher)	HD-CVI (720p) - 450m; HD-CVI (1080p)-250m HD-TVI (720p / 1080p) - 250m AHD (720p / 960p)-350m; AHD (1080p)-250m
Video bandwidth	0 ... 50 MHz (-3 dB)
Impedance of the coaxial connector / connector type	75 Ω / BNC plug (on the cable 100mm)
Impedance of the unbalanced connector / connector type	100 Ω / RJ45 socket
Attenuation (loop-through)	-0,5dB / 5MHz
CMRR	60dB / 5MHz
The maximum permissible input voltage	12-15VDC
The maximum permissible current	1A (for 12V)
Operation temperature	-10°C ÷ 55°C
Storage temperature	-40°C ÷ 60°C
Permissible relative humidity	<95%
Dimensions	22 × 10 × 40mm (with cable - 180mm length)
Net / gross weight	0,075kg
Declarations, warranty	CE, one year from the production date