

CODE: **P-TRPV120** v.1.0/1  
 TYPE: **P-TRPV120 passive HD video and power transmitter (BNC plug 2.1/5.5)**

EN\*\*



## DESCRIPTION

The P-TRPV120 is a 1-channel passive HD video and power transmitter using twisted pair cable. The video signal is transmitted using one twisted pair, while the power is supplied using two twisted pair cables. The mentioned devices match 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-TRPV120 module is terminated with two connectors:

- the BNC plug (HD-CVI / HD-TVI / AHD video transmission),
- JACK 2,1 / 5,5 power plug (camera power supply).

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

The P-TRPV120 module is usually mounted at the camera, while the 4-channel transmitter P-TRPV4 is usually mounted near the recorder. The P-TRPV4 module is not included (it must be purchased separately). An example diagram with both modules is shown in Figure 2.

## TECHNICAL DATA

<b>The video signal</b>	1,0V <sub>p-p</sub> , 75 Ω
<b>Video transmission range (UTP 5e or higher)</b>	HD-CVI (720p) - 450m; HD-CVI (1080p)-250m HD-TVI (720p / 1080p) - 250m AHD (720p / 960p)-350m; AHD (1080p)-250m
<b>Video bandwidth</b>	0 ... 50 MHz (-3 dB)
<b>Impedance of the coaxial connector / connector type</b>	75 Ω / BNC plug (on the cable 100mm)
<b>Impedance of the unbalanced connector / connector type</b>	100 Ω / RJ45 socket
<b>Attenuation (loop-through)</b>	-0,5dB / 5MHz
<b>CMRR</b>	60dB / 5MHz
<b>The maximum permissible input voltage</b>	12-15VDC
<b>The maximum permissible current</b>	1A (for 12VDC)
<b>Operation temperature</b>	-10°C ÷ 55°C
<b>Storage temperature</b>	-40°C ÷ 60°C
<b>Permissible relative humidity</b>	<95%
<b>Dimensions</b>	22 × 10 × 40mm (with cable - 180mm length)
<b>Net / gross weight</b>	0,04kg
<b>Declarations, warranty</b>	CE, one year from the production date