

# VT-1new v2.0



## Twisted pair video transmission system

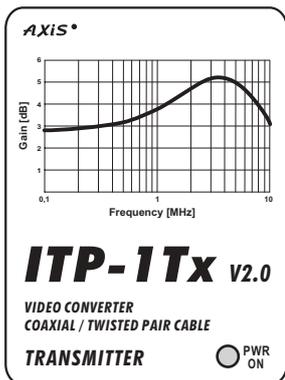
### Application

This transmission system is determined above all for simplify and reduction price of cabling. Furthermore is determined for distribution of videosignal in structural systems cabling.

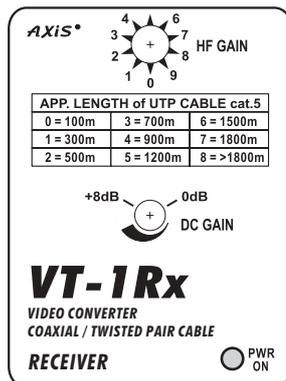
This type of transmission system has improved frequency characteristics and contains basic surge protection of TP link.

### Technical specification

Supply voltage:	11...15Vdc	Max. d.c. voltage on TP line:	+1V
Max. current consumption of receiver:	80mA / 12V	Max. d.c. voltage between lead of TP link and minus pole of supply:	+6V
Max. current consumption of transmitter:	118mA / 12V	DC gain control range	0...+10dB
Impedance of input and output of coaxial cable:	75	Max. length of TP line:	1500m (cable UTP cat. 5) 500m (shielded cable SYKFY)
Impedance of input and output of TP link:	100		



TRANSMITTER



RECEIVER



### Installation and settings

1. Connect all leads (including power supply) into both parts of transmission system
2. On receiver, set the nearest length of connected TP line by switch HF GAIN. Then set the DC GAIN regulator to most right level (0dB) and than make by the same regulator best setting of picture on monitor.  
For the best setting you must use an oscilloscope:
  - a) direct camera to space with strong light, or directly to source of light
  - b) on receiver's output connect resistance load 75  $\Omega$ , or monitor with input switched to 75  $\Omega$  impedance
  - c) By DC GAIN regulator set peak to peak voltage level of videosignal on 1V or 1,2V.In case of non contrast picture, set it for better result by HF GAIN switch (one step more) and then set again DC GAIN regulator.
3. For seting of HF GAIN switch (length of TP line) use information table on receiver cover. Data used there are approximate. Set of this switch depends on conditions of local application and type of used cable.

### Wire and cable recommendations

Transmission system is recommended for use with twisted pair cables category 5 or more. For protection all system we recommend use of surge protectors LPV-2Jx or LPV-2Kx series.

