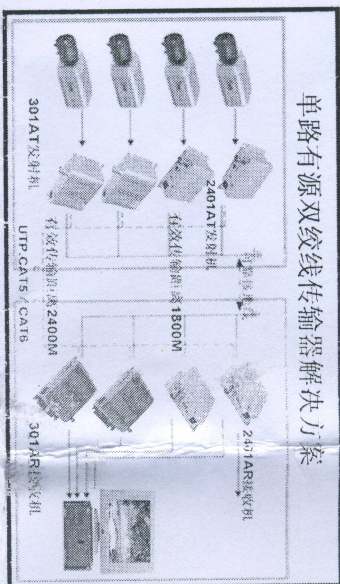


VB-101TR 1CH UTP Video Transceiver

VB-101TR INSTRUCTION MANUAL

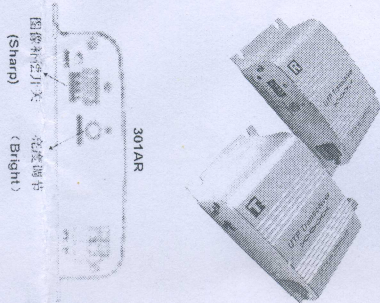
一. Summary

The unit is a device that allows the transmission of real-time monochrome or color video over Unshielded Twisted Pair telephone wire. Enabling reactance equally to zero, it transforms the video signal into an identical signal but with opposite polarized magnetic fields. With unparallelled common interferences. It is ideal for a wide variety of applications such as security, surveillance, video conferencing, elevator surveillance, and P/T/Z control signals.



二. Advantage

- 1) High quality and long distance transmission. Employs advanced technology, the video transceiver can compensate the attenuation of video signal and different frequency. Keep up the sharpness and color of original picture. It achieves longer and better signal transmission.
- 2) Enable cost-effective, point to point transmission appliance. Normally, there are four pairs unshielded twisted pair (UTP) in UTP cable. However, one pair UTP is necessary for 1ch CCTV video signal transmission, the others can be used for transmitting Audio signal, Control Signal, Power input or 4 channel cctv video signal. The cost are saved about 20%~50%.
- 3) Outstanding interference rejection. The Video transceiver is highly immune to common mode interference and Multi channel signals in the same cables transmission. Even in Strong interference environment, The unit can transmit image in high quality.
- 4) Easy installation
- 5) Transient protection
- 6) Exceptional interference rejection



三. Features

Full motion CCTV video at long distance (Max. 9,000ft/3000M)

Built-in linearity, Sharpness and Chroma control

Enable unparallelled common interferences rejection

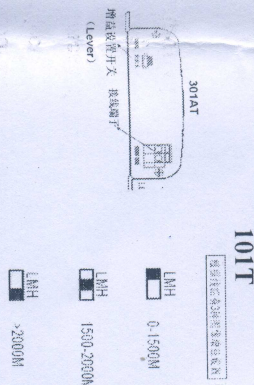
Built-in transient Protection

Improve the picture definition when connect to DVR or Quad, and reduce noise affects.

四. HOW TO SET GAIN

五. There are 16 kinds of image compensation setting according to different distance

距离	被动-主动	主动-主动	状态	被动-主动	主动-主动
300M	600M	900M	1600M		
400M	800M	1150M	1850M		
500M	1000M	1400M	2100M		
600M	1050M	1600M	2300M		
660M	1150M	1800M	2500M		
720M	1280M	2000M	2700M		
780M	1400M	2200M	2850M		
840M	1500M	2400M	3000M		



六. Solve different image interference problem on application

- 1) Used veins interference and high frequency interference appear on the image. Please firstly check-up if the camera, housing, and DVR creptage. In addition, make the suited of Video Transceiver connected with terra. And then check-up if the wire joint points connect well.
- 2) The image become BW form color or the color is too light. If adopt passive+active transferring project, please adjust Video Transceiver SHARPS four DIP switch of receiver. If it is not solved, please change active+active transferring project.
- 3) What is the cause about image twist and wobble when 1ch Video Transceiver transfer? If this phenomenon exists during using Video Transceiver to transfer 1ch image, the cause should be line and nip reversal. The method of getting rid of this phenomenon is that exchange twisted-pair in any extremity.
- 4) Using multi-active twisted-pair transceiver, the image is too bright and twisted, even there are much snowflake. What is the cause? The cause is that signal intensity of every channel is different after use Video Transceiver products. According to use r manual, please select passive+passive, passive+active or active+active collocation in the light of actual installation distance. Video Transceiver has multi-segments style compensation and gain inching switch in transmission and receive extremities, so that adapt different transferring distance and adjust image gain and compensation of every channel. If image gain is over great, compensation is over strong, which will cause too bright and twisty image, even included snowflake.