USER MANUAL

TP200 PRO Twisted Pair

VGA/ Stereo Audio Twisted Pair Transmitter & Receiver
with
Gain Control and Skew Compensation Adjustment

PTN ELECTRONICS

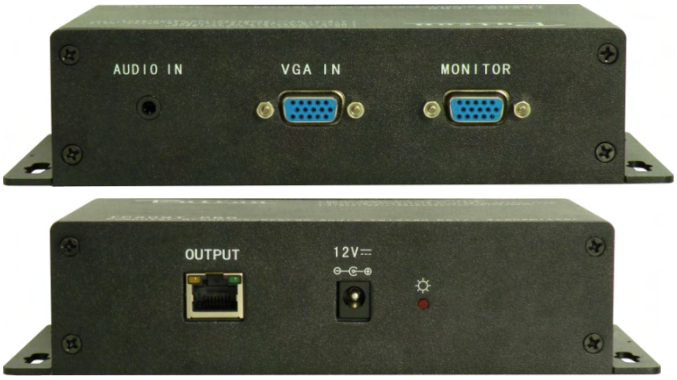
Please read this manual carefully before using this product

Index:

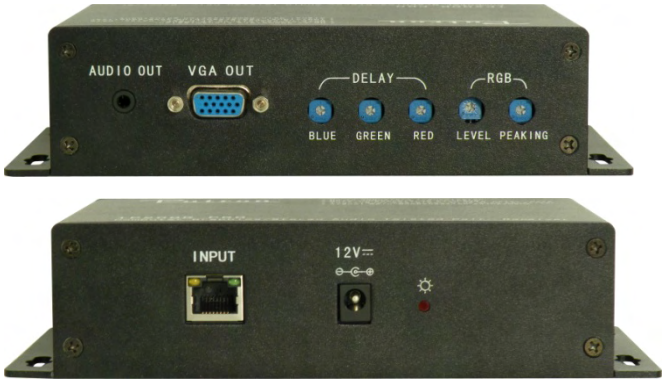
1. General Instruction:

TP200 PRO is a VGA and Stereo Audio Twisted Pair Transmitter (TP200PRO T) and Receiver (TP200PRO R2), which have been designed for reliability and exceptional high resolution image performance. The TP200 PRO uses PTN's unique VGA / Stereo Audio transmission technology to deliver perfect computer-video images & audio up to QUXGA resolution (1920*1200), 1080P/60 or higher (up to 250 meter transmission), over a single CAT5e or CAT6 cable.

2. Product Picture:



TP200 Transmitter



TP200 Receiver

3. Features:

- Transmits high resolution computer-video signals at 250 meters or more, over single CAT5, CAT5e or CAT6 UTP cable. The transmission distance depends on the resolution and the quality of the cable (CAT5e recommended).
- Bandwidth: from 800*600@60Hz to 1920*1200@60Hz.
- Compatible with RGBHV, RGBS, RGsB signals.
- Built-in distance setting buttons (adjust the signal levels manually).
- Sharpness and brightness are adjustable. The level can be changed depending on the different distances, displays, and usage.
- Audio follow video, sync-transmission.
- Built-in VGA local monitor for the user to check the live video display.
- Wall/table-mountable aluminium enclosure, PT case design.
- Front panel LED indicator.
- Internal international power supply (100Volt~240Volt AC, 50/60Hz).
- All models are equipped with an internal, auto-switching power supply that has all applicable safety certifications.

4. Specification

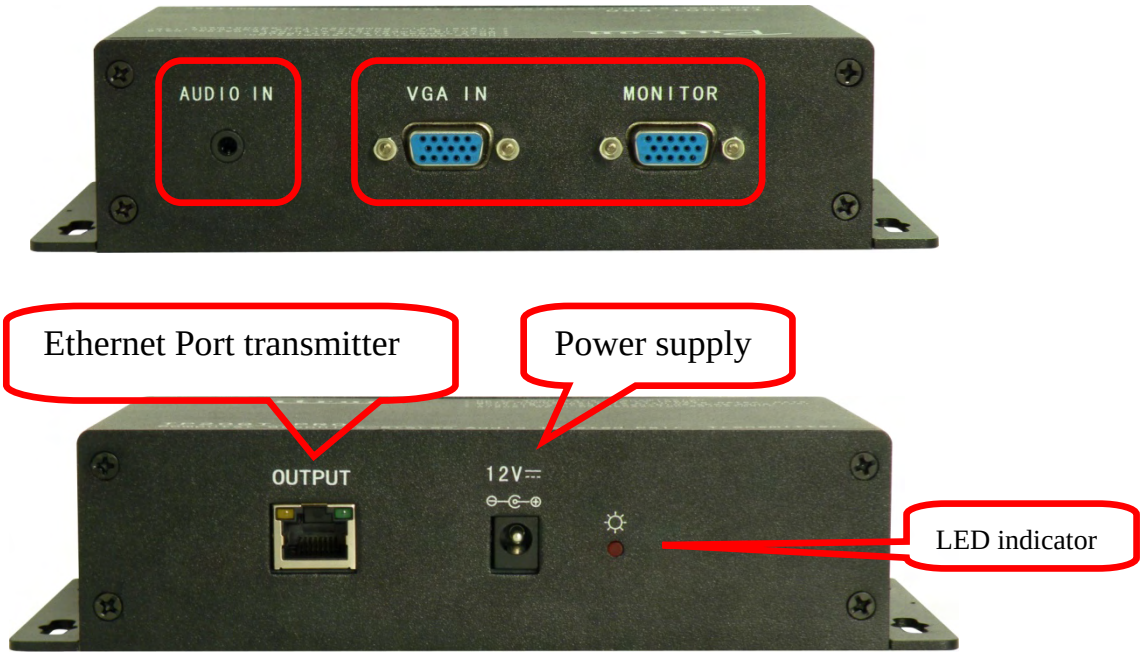
Video input		**Video output**	
Input	4 Computer Graphics picture	Output	1 Computer Graphics picture
Input connector	VGA (15 pin HD),female	Output Connector	VGA (15 pin HD),female
Video Signal	RGBHV,RGBS,RGsB,RsGsBs,component video ,S-video,composite video	Video Signal	RGBHV,RGBS,RGsB,RsGsBs,component video ,S-video,composite video
Video general			
Resolution Range	3200x2400 @ 60Hz(-3dB) 0~10MHz is +0.1dB to -0.1dB, 0~130MHz is +6dB to -0.8dB	Bandwidth	1GHz (-3dB) full loading,
Return Loss	-30dB@5MHz	Crosstalk	-50dB@5MHz
Switching Speed	200ns (Max.)	Input/output Level	0.5Vp-p ~ 2.0Vp-p
Gain	0dB	I/O Impedance	75Ω
Audio input		**Audio output**	
Input	4 stereo audio	Output	1 stereo audio
Input connector	3.5mm mini jack connector	Output Connector	3.5mm mini jack connector
Audio Input Impedance	>10Ω	Audio Output Impedance	50Ω
Switching Speed	200ns (Max.)	Output Volume	61 degree controllable(0~61)
		Output Bass	15 degree controllable(-7~+7)
		Output Treble	15 degree controllable (-7~+7)
Audio general			
Frequency Response	20Hz~20K Hz	Stereo Channel Separation	>80dB @1KHz
CMRR	>90dB @20Hz to 20K Hz	Switching Solution	Audio break away switching
Control parts			
Control/Remote	RS-232, 9-pin female D connector	Pin Configurations	2 = TX, 3 = RX, 5 = GND
Options	TCP/IP control by PTNET		
Audio Switch	Auto detect and switcher to the valid video channel by Captive Screw Connectors		
General			
Max DC Compensation	1.5V	Humidity	10% ~ 90%
Temperature	-20 ~ +70℃	Power Consumption	10W
Power Supply	110VAC ~ 240VAC, 50/60Hz	Product Weight	0.5Kg
Case Dimension	W160 x H43.6 x D100mm		

NOTE: All nominal levels are at ±10%.

5. Function Description

5.1 Transmitter Introduction

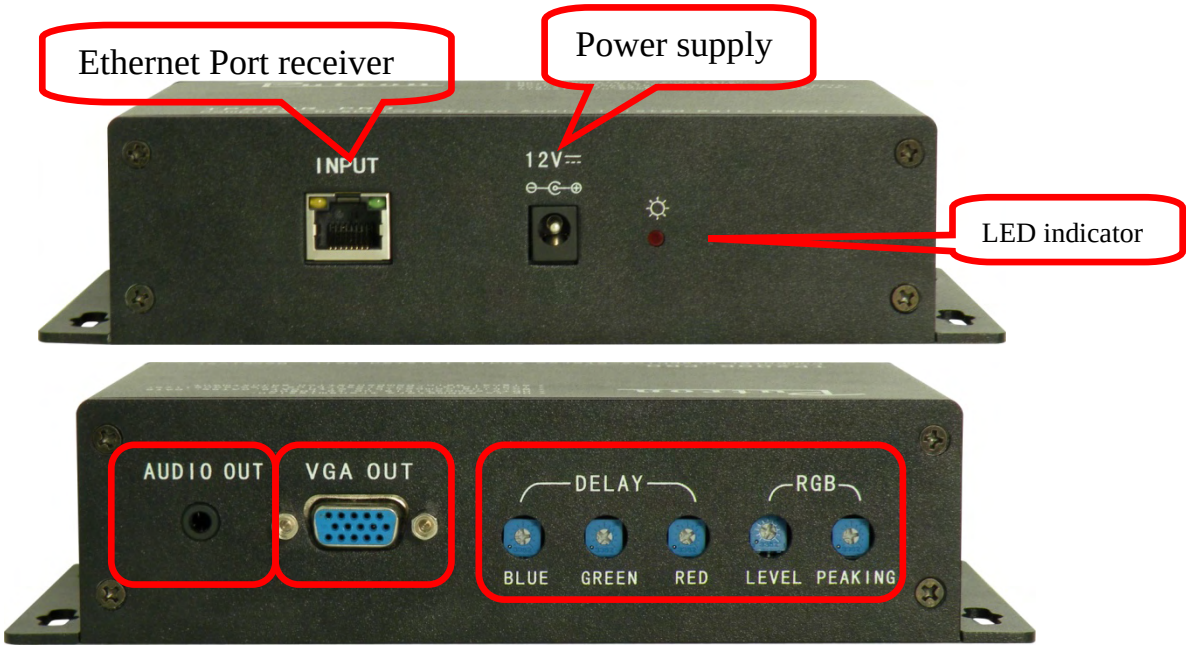
Put your VGA signal input into VGA IN, and the audio into 3.5mm AUDIO IN port, connect your Cat5 cable connector into the Ethernet Port, and power supply connected through Adapter. The LED indicator will show you're the power status.



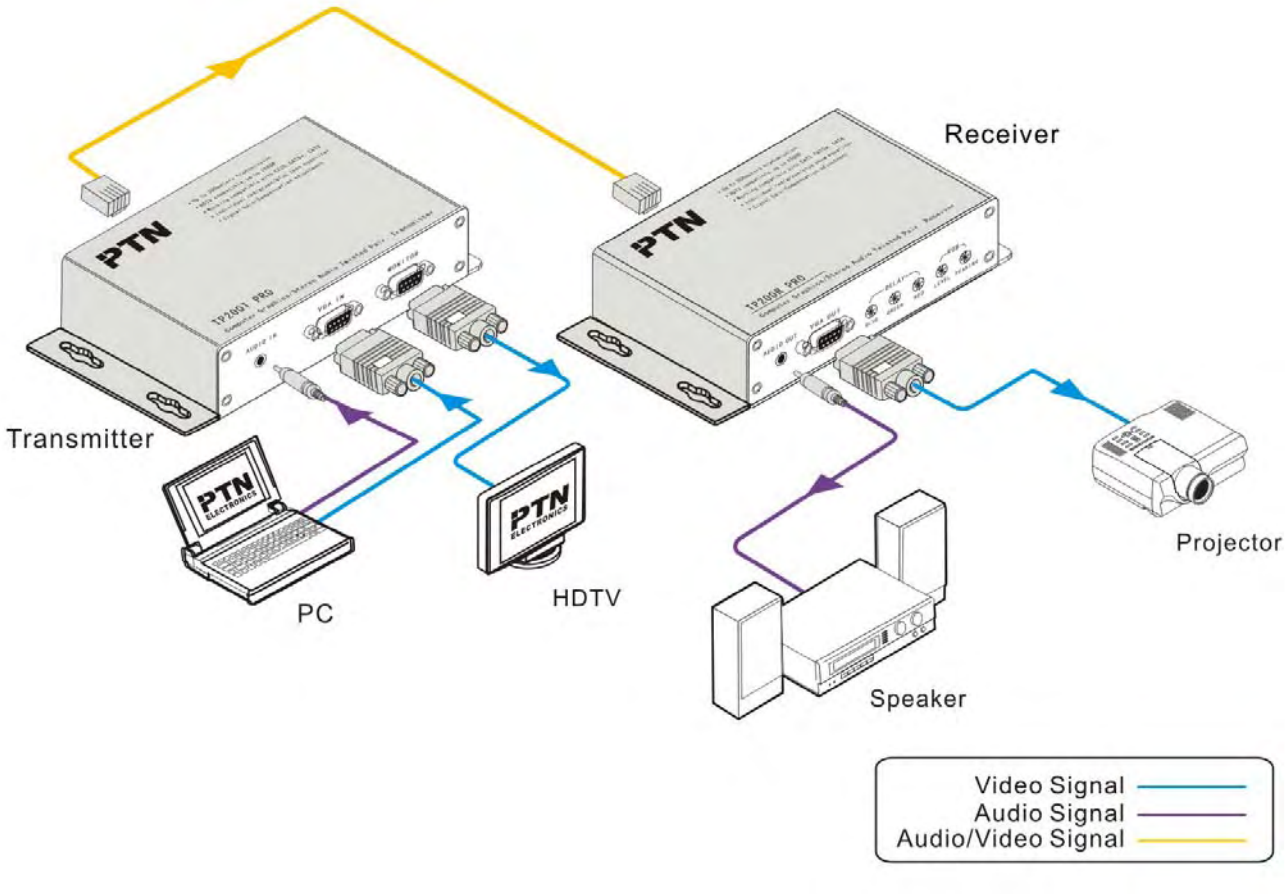
5.1.2 Receiver Introduction:

Connect your Cat 5 cable connector into the "Ethernet INPUT' Port, and power supply connected through Adapter, put your VGA signal output into "VGA OUT", and the audio into 3.5mm "AUDIO OUT "port, The LED indicator will show you're the power status.

Adjust the "RELAY", "LEVEL", "Peaking" control using a screw.



5.2 Diagram and connection:



6. EQ, Gain function

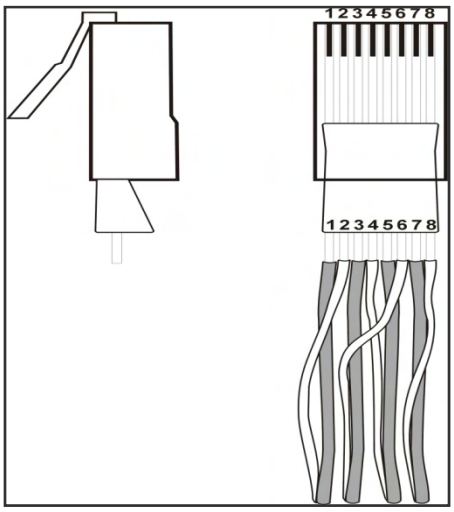
Level, Peaking adjust on the receiver part for adjust the image quality.

Relay skew adjust, including Blue, Red, Green.

7. Twisted Pair Cable Connection

Twisted Pair Cable Connection

No.	Signal type	Cable color
1	R＋	green white
2	R－	green
3	AUDIO＋	orange white
4	G/H＋	blue
5	G/H－	blue white
6	AUDIO－	orange
7	B/V＋	brown white
8	B/V－	brown



8. Panel Drawing

Unit: mm