Meicheng®

Instruction Manual

1:2 VGA Audio Over CAT5 EXTENDER up to 1000 feet!

Model No : VE-20 Transmitter
VE-20 Receiver

www.meicheng.com.tw

Description

The VGA-VPAT/R system extends and duplicates your audio and VGA signals at distances of up to 1000 feet. Extension is accomplished by digitally encoding and transmitting AV signals over standard CAT5 cables.

The VGA-VPAT/R system will extend analog VGA as well as analog Audio and provides two full sets of AV signal output on the receiving end.

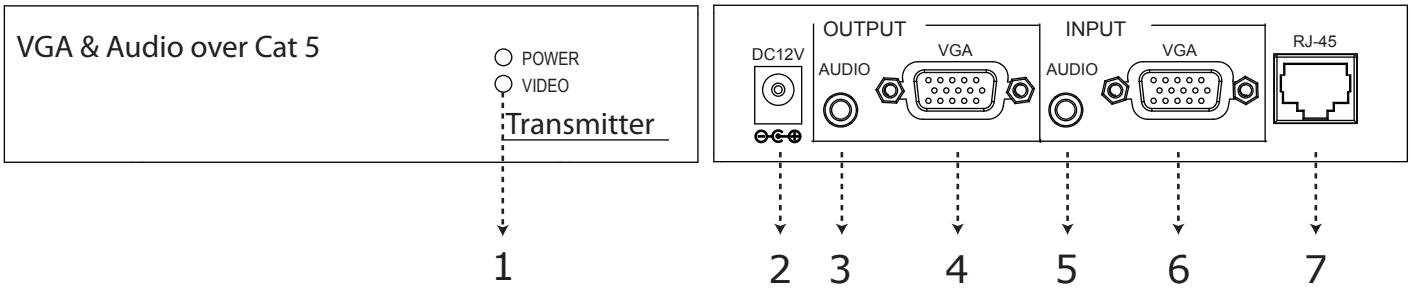
Features

- Long distance extender up to 1000ft
- Supports analog L+R audio
- No Loss of Quality
- Simple plug-and-play installation

Item Number	Description
VE-20T	1in 1out VGA and Audio over CAT5 Extender (Local Monitor Function)
VE-20R	2output VGA and Audio over CAT5 Extender (Remote)

PANEL DESCRIPTIONS

VE-20 Transmitter



1: Power / Video LED Indicator
This LED will become active once the included 12V DC power supply is properly connected.

2: 12V DC Power Input
Connect the included 12V DC power supply input this port. Once this has been properly connected the power LED will become active.

3: 3.5mm Mini-Phono Jack Analog Stereo Output
Connect this output to either amplifi ed speakers or an audio amplifi er. Audio from the sender will be sent from the source location to the receiver location.

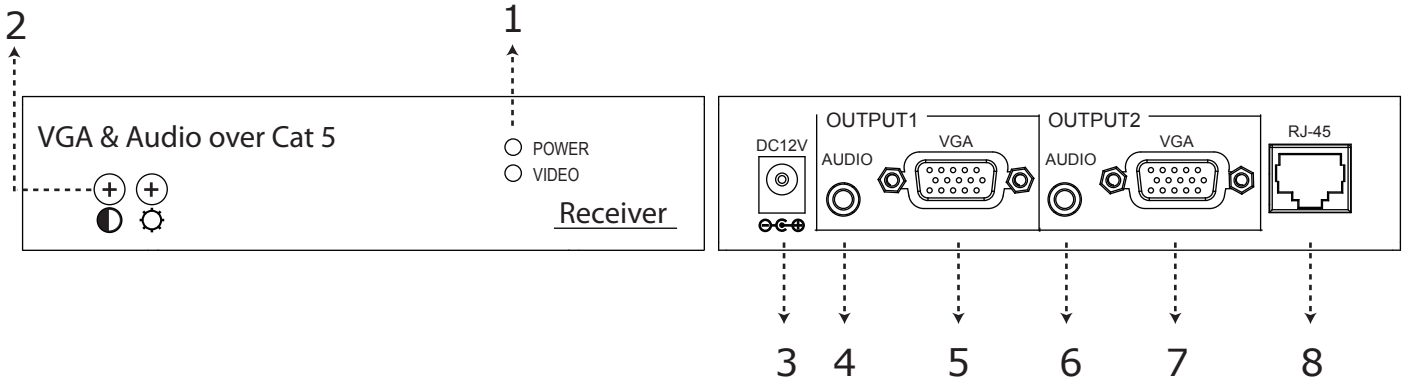
4: VGA Output
Connect a VGA capable device to this output.

5: 3.5mm Mini-Phono Jack Analog Stereo Input
Connect the VGA source's analog audio to this input. This will send audio from the source location to the receiver location.

6: VGA Input
Connect the VGA source device to this input

7: CAT-5 Port
Connect a CAT-5e cable between the CAT-5 ports on both the sending and receiving units.

VE-20 Receiver



1: Power / Video LED Indicator
This LED will become active once the included 12V DC power supply is properly connected.

2: Brightness Trim Pot / Focus Trim Pot
Adjust this Trim Pot to (brighten/darken)(blur/sharpen) the output video. Please see page 9 for detailed instructions on the usage.

3: 12V DC Power Input
Connect the included 12V DC power supply input this port. Once this has been properly connected the power LED will become active.

4: 3.5mm Mini-Phono Jack Analog Stereo Output 1
Connect this output to either amplifi ed speakers or an audio amplifi er. Audio from the sender will be sent from the source location to the receiver location.

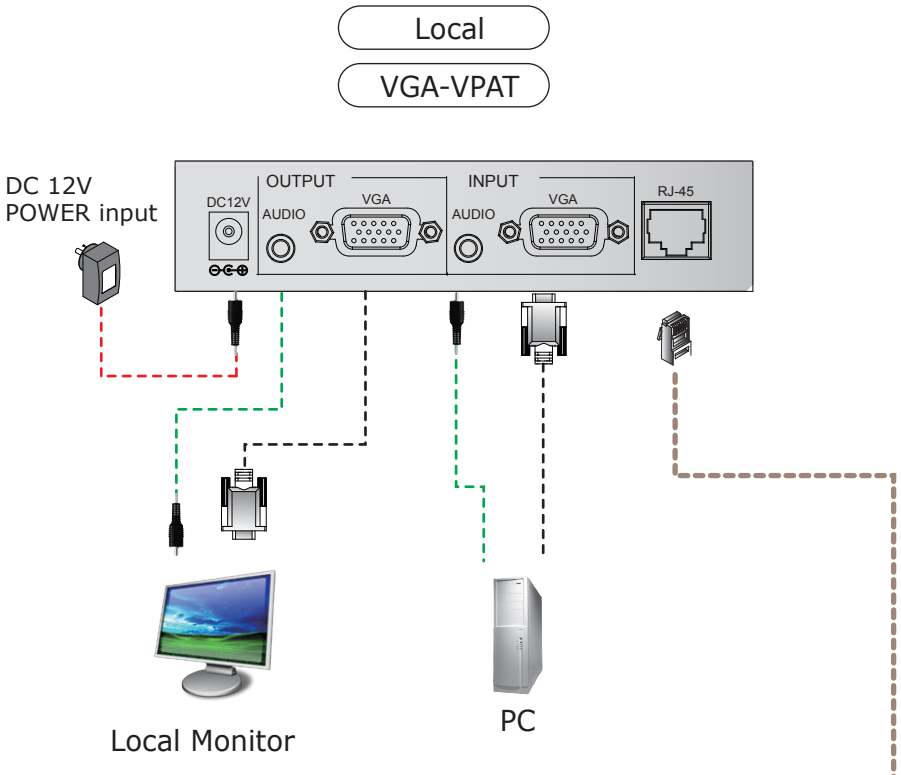
5: VGA Output 1
Connect a VGA capable device to this output.

6: 3.5mm Mini-Phono Jack Analog Stereo Output 2
Connect this output to either amplifi ed speakers or an audio amplifi er. Audio from the sender will be sent from the source location to the receiver location.

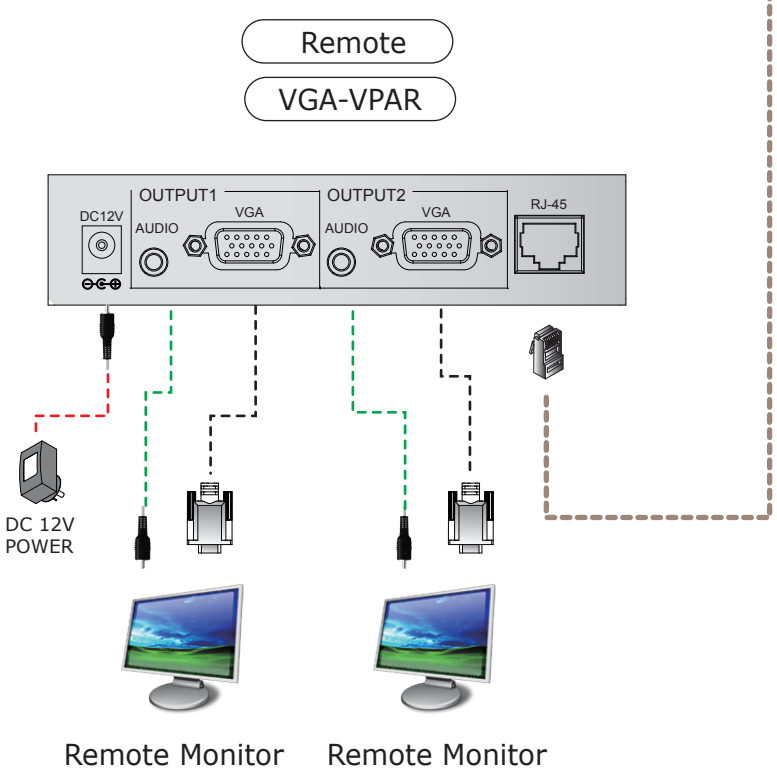
7: VGA Output 2
Connect a VGA capable device to this output.

8: CAT-5 Port
Connect a CAT-5e cable between the CAT-5 ports on both the sending and receiving units.

Application Diagram



Cat.5 UTP Cable
UP to 1000 ft.(300m)



SPECIFICATIONS

Max. Resolution	2048 x 1536 60Hz
Support	VGA, SVGA, XGA, SXGA, UXGA, QXGA
Video Bandwidth	350MHz
Input Video Signal	1.2V p-p
Audio Impedance	600 ohm
UTP. Cable Line (24 gauge or lower solid copper)	Maximum capacitance: 20 pf/foot Impedance: 100 ohms @ 1 MHz Attenuation: 6.6 dB/1000 ft. @ 1 MHz Cat 5, Cat 5e, Cat 6, Cat 7 compatible
(Near-end Transmit) Connectors	Female HD15 input(x1) Female HD15 output(x1) 3.5mm mini audio input(x1) 3.5mm mini audio output (x1) Shielded RJ45 output(x1) DC power connector(x1)
(Far-end Receive) Connectors	Female HD15 outputs(x2) 3.5mm mini audio outputs(x2) Shielded RJ45 input (x1) DC power connector(x1)
Image Quality	HDTV Compatible
Common-Mode Rejection Ratio (CMRR)	60dB@0～6MHz
Power Adapter	12V DC
Material	Metal
Dimensions (DxWxH)	91 x 133 x 30 mm
Weight	390 g

Installation Precaution

- **Black screen**

  1) Check the power of transmitter and receiver.
  2) Check if RJ45 modular plug is made.
  3) Check if the order of CAT5 cable is correct.
  4) Check VGA signal line of transmitter and receiver.

- **Off-and-on images**

  1) Check if the order of RJ45 modular plug is correct.
  2) Check if VGA signal line of transmitter and receiver is standard VGA line.
  3) Check if the computer ground wire is on the same way with monitor ground wire, should not have potential difference.
  4) Check if the installation of monitor is correct.
  5) Check if DPI and refresh rate accommodate the requirement of monitor.

- **Serious handover**

  1) Check the position of toggle switch.
  2) Check DPI and the installation of refresh rate.
  3) Check if the cable technical instruction meets the requirement.
  4) Check if the transmission distance is too long.
  5) Check the quality of VGA distributor and recommend adopt our supplementary high-end VGA distributor.

- **Serious interference with audio signal**

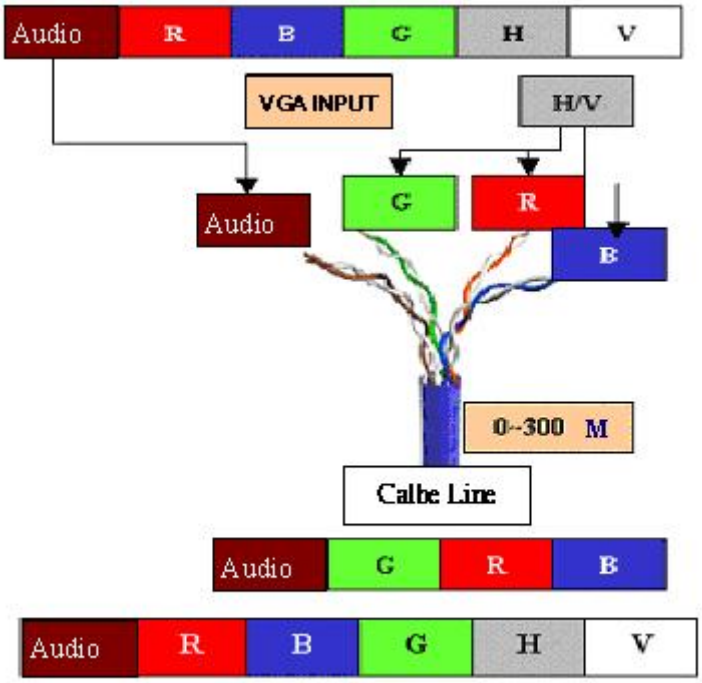
  1) Check if audio signal of computer output is fine.
  2) Check if audio cable connector of output and input is fine.
  3) Check if RJ45 modular plug is made.

● Operating Environment

Input Voltage：DC 12V Power < 5W

Operating temperature Range：-25℃ ～ +70℃

Relative Humidity： 0～ 95%（non-refrigerated）



VGA Single Output

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