

Super Mini AV Extender

AVE-M180T
AVE-M180R

User Manual

◀ V1.0 ▶



www.green-box.com.tw

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1. Package Content

One Port AVE-M180 Super Mini AV Extender

AVE-M180T Transmitter :

- AVE-M180T x 1
- M-F VGA Connector x 1
- User Manual

AVE-M180R Receiver :

- AVE-M180R x 1
- M-F VGA cable x 1
- AC7.5V Power Adaptor x 1
- User Manual

2. Product Introduction

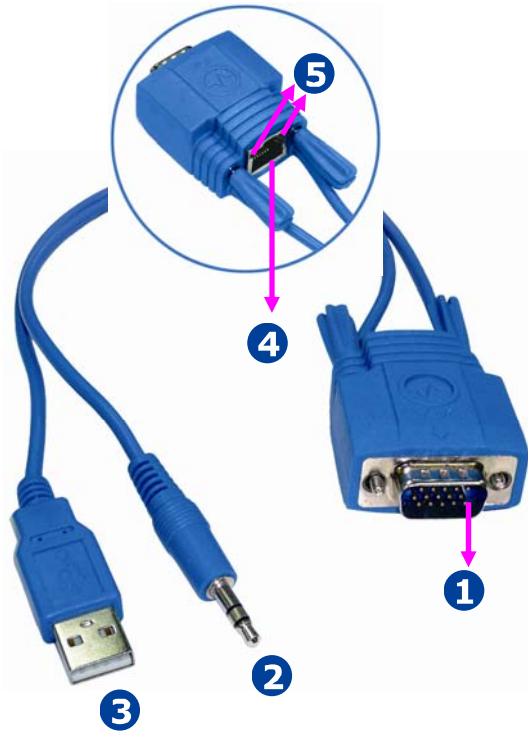
AVE-M180 is the smallest AV Extender in the industry; the main body is as big as a VGA connector and able to transmit VGA + Audio by a single Cat5e cable up to 180m. With its simplified design, you can install the extender very easily and save space. You can use it to broadcast AV signal from PC, KVM switch, matrix AV switcher and applied in the device extension of projector, plasma TV, LCD TV, LCD monitor, HDTV, and CRT. It can also be integrated with splitter and selector to fulfill different AV application.

3. Product Features

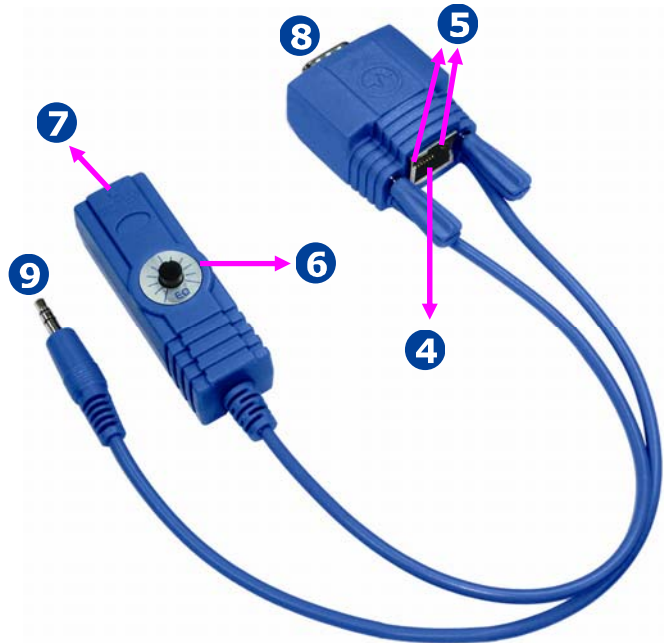
- This system can send VGA and Audio signal from Transmitter by Cat5/5e/6 cable, and broadcast to Receiver. The standard maximum broadcasting distance is 180m
- Compact design with VGA and Audio transmit function
- Maximum supported distance and resolution: 2048x1536@180m (*Higher VGA card*)
- Use Cat5 Enhance UTP cable (350MHz bandwidth) for better quality
- Software free, pure hardware design, support Plug & Play
- Supports VGA, SVGA, XGA, TFT_LCD, LCD TV, PDP, Projector with DDC2B function
- Transmitter and Receiver build with LEDs to indicate system status
- Transmitter takes DC5V power from USB port
- Receiver build in EQ to adjust image quality

4. Product Descriptions

■ AVE-M180T



■ AVE-M180R



1 To VGA Output

2 To Audio Output

3 To USB Power (DC5V)

4 RJ-45 System Link

5 V&H Sync Activity

Blinking: No signal

LED ON: Active

6 Video Focus

7 Power Jack

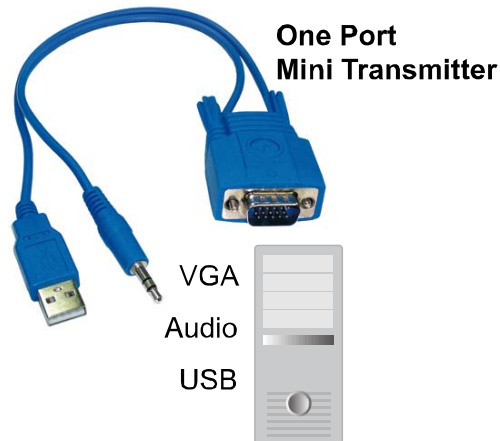
8 To Monitor

9 To Speaker

5. Installation and Operation

5.1 AVE-M180T Single-Port Transmitter Installation:

- 1) **Connecting Transmitter:** Take AVE-180T and connect it to computer's VGA, Audio and USB port. The Transmitter will take the DC5V power from computer's USB port and if your computer or VGA player doesn't have USB port, please prepare optional power adaptor with a USB power output to supply the power.



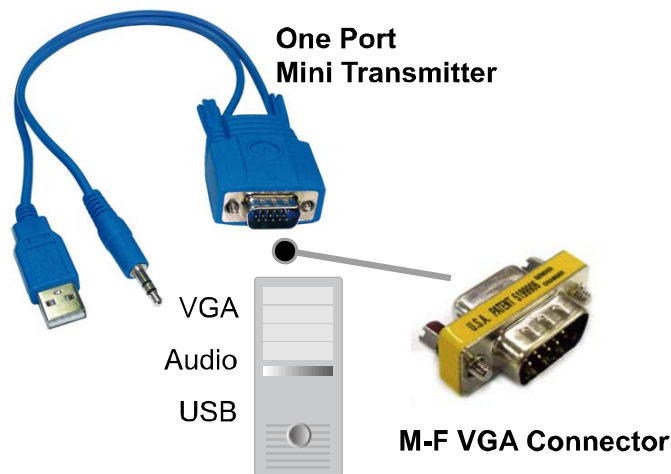
Installation Diagram of System Transmitter



Optional Power Adaptor with a USB DC5V power output

- 2) **Function Test:** Turn on your PC or VGA player, the LED of Transmitter will blink before VGA signal is turned ON and remain ON after VGA signal is turned ON.

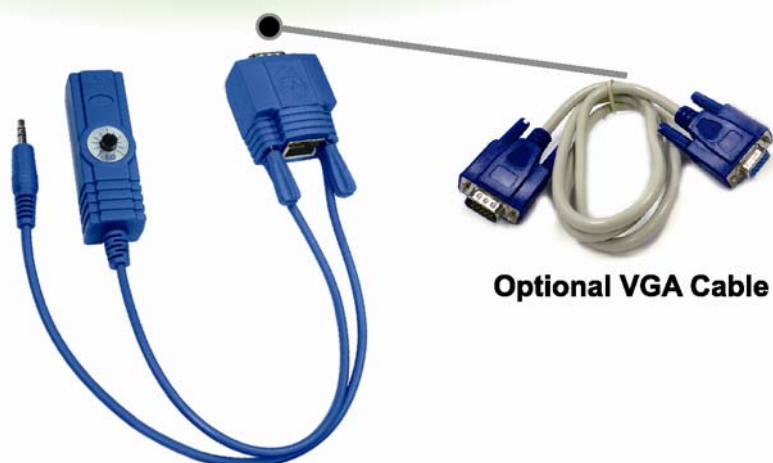
- 3) Some PC might have tight space to connect AVE-M180T to VGA port, you may take one short male-female VGA connector to connect in between AVE-M180T and VGA output port.



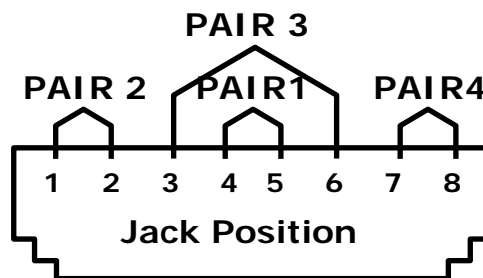
5.2 AVE-M180R Receiver Installation and UTP Connection:

- 1) **Power Up:** Plug power adapter to the Receiver and connect to monitor and speaker. The LED above RJ-45 port should blink to indicate the unconnected status of AV signal. You can also use a short VGA cable (in the package) to connect in between Receiver and monitor and place the receiver in other place.

Video Monitor & Speaker

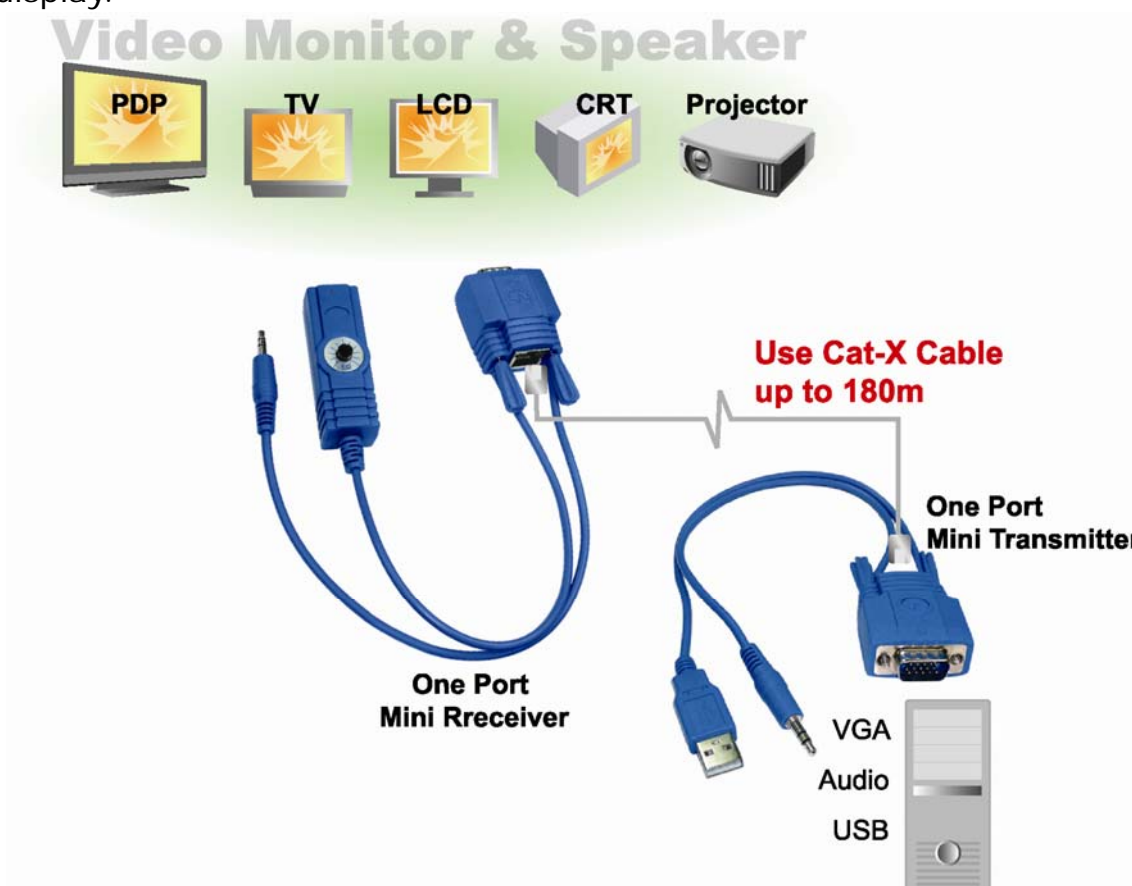


- 2) **Selection of UTP Cable:** For best VGA resolution, please use Cat5. Enhanced cable (350MHz bandwidth), the maximum extended length of one section (one pair of Transmitter or Receiver) should not exceed 180 meters. The connector must be made by 568B/568B type.



The EIA/TIA definition of 568B in the pin assignment is (1)orange white, (2)orange, (3)green white, (4)blue, (5)blue white, (6)green, (7)brown white, and (8)brown.

- 3) **Connect UTP Cable:** Plug two ends of UTP cable to Transmitter and Receiver's RJ45 SYSTEM LINK ports, the monitor and speaker connected to Receiver should work now and the LEDs above RJ-45 port should remain ON. You can adjust the FOCUS control of Receiver to have the best VGA display.



Installation Diagram of Receiver AVE-M180R

- 4) **Function Test:** After above installation, you will be able to broadcast the AV signal to Receiver's connected monitor and speaker.

- 5) **Problem and Solving:** If you find unstable image or audio problems after installation, please confirm following list or contact your direct vendor for further assistance:
 - a. Check if PC's VGA resolution and frequency over the limit of monitor display, if so, please change the VGA configuration from Windows Control panel.

 - b. Try to connect Monitor and speaker directly to a PC, and ensure the basic function of these devices.

 - c. When using LCD or same type monitor, there might have some image offset or blinking, please adjust the position, clock or phase of the LCD monitor, or simply press Auto Adjust / Tune to have a better image solution.

5.3 Other Integration and Application:

Please contact your local dealer or distributor for further information.

6. Specifications

Model Name	Super Mini AV Transmitter Extender	Super Mini AV Receiver Extender
Model No.	AVE-M180T	AVE-M180R
AV Input	VGA HDDB-15 x 1 Audio Jack x 1	RJ-45 x 1
AV Output	RJ-45 x 1	VGA HDDB-15 x 1 Audio Jack x 1
Video CTRL	-	Video EQ
LED	Power and Video Status	
Video Quality	Maximum VGA Resolution and Distance : 2048x1536@180m (<i>Higher VGA card</i>)	
Power Consumption	USB DC5V Power, 200mA	AC7.5V, 250mA
Environmental Condition	Operation Temp.: 0~50°C Storage Temp.: -20~60°C Humidity: 10~90%	

7. Remarks

- I. Please read this operation manual carefully before installing the system.
- II. Please use correct power adapter and use high quality cable for optimum broadcasting.
- III. To prevent potential power damage do not use 2-wire extension cords. Ensure DC outlets at PCs and displays are on the same phase and have correct and common grounding.
- IV. Limited Warranty:
 - (1) In no events shall the vendor's liability for direct or indirect, special, incidental or consequential damages, loss of profit, loss of business, or financial loss which may be caused by the use of the product exceeds the price paid for the product.
 - (2) The vendor makes no warranty or representation, expressed or implied with respect to the contents or use of this documentation, and especially disclaims its quality, performance, merchantability, or fitness for any particular purpose.
 - (3) The vendor also reserves the right to revise or update the product or documentation without obligation to notify any user of such revisions or updates. For further information please contact your vendor.

8. Notice

1. All other company or product names mentioned herein are trademarks or registered trademarks of their respective companies.
2. Specifications are subject to change without notice.
3. Please read user manual carefully before operating the device
4. Please use the power adaptor accompanied with this product. Warranty does not cover for damages caused by pairing other power adaptor
5. Please check all connecting devices are properly grounded to avoid electric failure
6. This product has limited warranty for one year from defects in material and workmanship. Items that are physically damaged, misused, tempered with or altered are void of warranty. For further details please contact your distributor. In case warranty sticker is damaged or missing, warranty is void. For further details please contact your distributor.

Certifications

FCC

This equipment has been tested and found to comply with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation.

CE

This equipment is in compliance with the requirements of the following regulations:

EN 55022: CLASS B

RoHS

All contents of this package, including products, packing materials and documentation comply with RoHS.



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