| VGA CAT5 Extender |
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ITEM NO.: VE01P

The VGA Extender allows VGA video signals to transmit up to 100 meters via 4 pairs CAT5 STP or UTP cable. The VGA Extender used in a home or commercial applications as a smart, fast, and cost-effective alternative solution as it replaces costly and bulky VGA cable. VE01P is ideal for classroom video distribution, lecture halls, retail kiosks, video information displays, overhead projector systems, PC-training systems, and tradeshows PC demo systems.

Features:

- Passive device, no power required.

- Including 2 units as transmitter and receiver.

- Resolution up to 1920x1080 pixels.

- Up to 100 meters via standard 4 pairs CAT5 STP or UTP cable

- Replace VGA cable by UTP cable.

- Transmitter built in virtual DDC to avoid improperly setting at resolution and frequency.

- Transmitter built in sync mode selection for signal stability.

- Receiver built in sync filter level adjustment for signal stability.

- Perfect for classrooms, lecture halls, tradeshows, video information displays...etc.
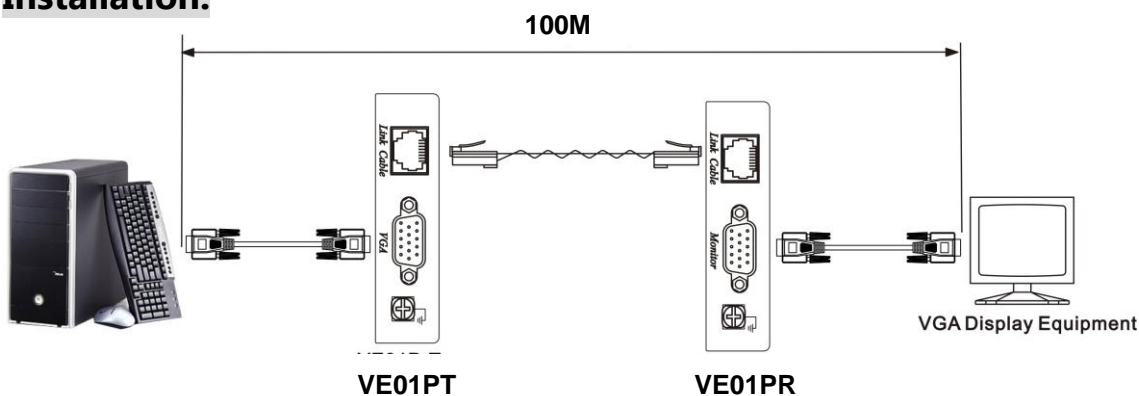
Panel View:

VE01PT
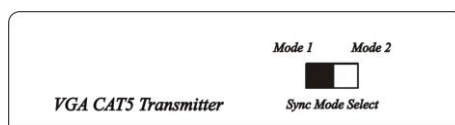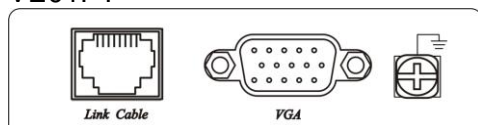

VE01PR

Installation:

1
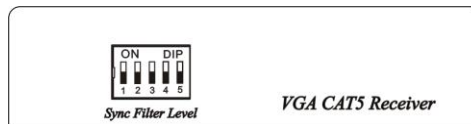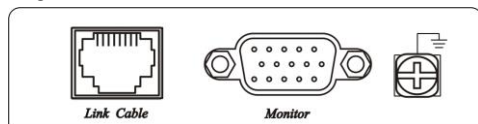
Transmission Distance Chart

Max. Distance via CAT5e Cable	
800x600 pixels (60Hz)	100M
1024x768 pixels (60Hz)	75M
1280x1024 pixels (60Hz)	60M
1920x1080 pixels (60Hz)	40M

Cable Recommended:

1. CAT5e UTP/STP or CAT6 UTP cable.
2. There are some monitor models with very high demand at sync-sensitive, it is recommended to use STP (shielding twisted pair) cable instead of UTP (unshielded twisted pair) cable.
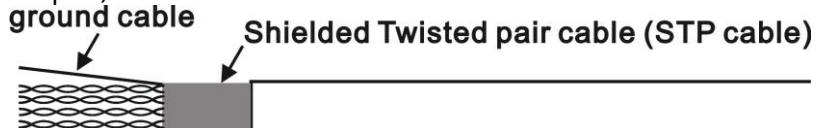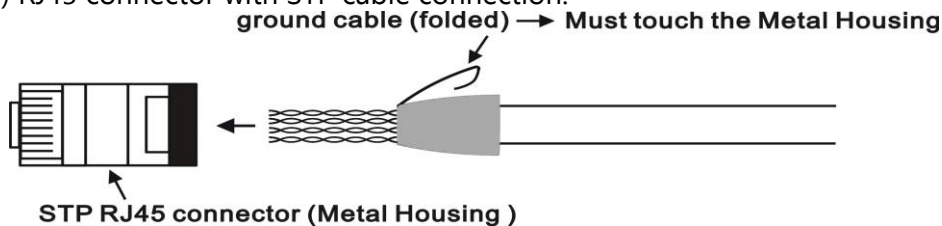
RJ45 Pinout:

(PIN TIA/EIA-568B)
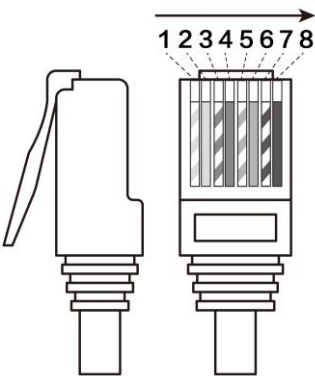
(PIN TIA/EIA-568B)		
PIN	Wire Color	
1	Orange-white	Red +
2	Orange	Red -
3	Green-white	H-Sync
4	Blue	Green +
5	Blue-white	Green -
6	Green	V-Sync
7	Brown-white	Blue +
8	Brown	Blue -

Tips of using STP cable:

1. STP (shielding twisted pair) Cable.

2. STP (shielding) RJ45 connector with STP cable connection.

Slide Switch Setting:

VE01PT Sync Mode Select
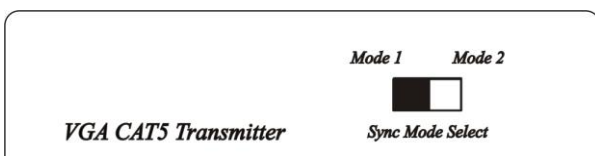
← **Mode 1**
→ **Mode 2**

1. For new type monitors, such as LCD Monitor over 17", it is recommended setting at mode 1 for the best transmission stability.   If the picture is not normal, please switch to Mode 2.
2. For old type monitors, such as CRT or LCD Monitor under 17", it is recommended setting at Mode 2. If the picture is not normal at Mode2, please use STP (shielding twisted pair) cable.

Sync Filter Level Setting:

DIP Switch Chart

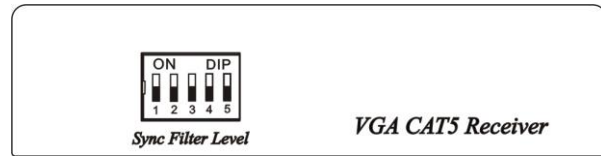| DIP Switch	1	2	3	4	5
Level 0 (Min)	↓	↓	↓	↓	↓
Level 1	↑	↓	↓	↓	↓
Level 2	↓	↑	↓	↓	↓
Level 3	↓	↓	↑	↓	↓
Level 4	↓	↓	↓	↑	↓
Level 5 (Max)	↓	↓	↓	↓	↑

Sync Filter Level is designed for improving signal synchronizing stability, not for picture quality or skews problem when using UTP cable.

There is no recommended setting as monitors have different set value. Please try multiple levels of setting to figure out the best stability.

If there is no picture display or picture not stable after adjustment, please change the UTP to STP cable.

Caution:

1. The wiring must be away from electromagnetic equipment, i.e. microwave, wireless, hi voltage cable...etc.

2. The maximum distances supported by the VGA Extender are dependent on the type of twisted pair cable and image resolution of the PC's VGA interface.   Make sure that the maximum recommended operational distances have not been exceeded.

3. All wiring is "straight-through" twisted pair cable, not being used for other LAN or telephone equipment.

4. Do not connect the VGA Extender to a telecommunication outlet wired to unrelated equipment.

Troubleshooting of picture problem:

1. No picture display:
- Check Link cable.
- Check DIP switch setting.
- Check VGA cable connection.
- Change the resolution or frequency.
- Change UTP to STP cable.

2. Picture not stable or intermittent disappearing:
- Check DIP switch setting.
- Change the resolution or frequency.
- Move cable away from electromagnetic equipment.
- Change UTP to STP cable.

3. Picture tilt:
- Check DIP switch setting.
- Change the resolution or frequency.
- Change UTP to STP cable.

Specification:

ITEM NO.	VE01PT	VE01PR
Input Signals	Video: 1 Vp-p	
	Horizontal & Vertical SYNC : TTL standard. 300kHz max. bandwidth	
Insertion Loss	Less than 3dB per pair over the frequency range	
Video Signal Return Loss	-15dB max from DC to 60Mhz	
Impedance	75 ohms (DB15), 100 ohms (RJ45)	
Setting Switch	2 Stage Slide Switch	5 Stage Dip Switch
Transmission Distance	40~100M	
Link Cable	CAT5 / CAT5e / CAT6 / STP or UTP Cable	
Temperature	Operation: 0 to 55 C, Storage: -20 to 85 c, Humidity: up to 95%	
Dimensions mm	110 x 76.6 x 26	
Weight g	175	

RoHS CE FC C

Rev. B