

DVI CAT5 Extender

ITEM NO.: AT-DVI50SR

Our Smart DVI CAT5 Extender is using two CAT5E/6 cables to extend your DVI display up to 50 meters from your HDTV DVI or HDMI source.

AT-DVI50SR DVI CAT5 Extender

Features:

- Extends any DVI compliant device over two CAT5E/6 cables.
- Transmission range up to 50 meters at hi resolution 1920 x 1200.
- Support analog stereo audio: 20Hz - 20Khz.
- Including 1 x transmitter, 1 x receiver and 2 x 5V power adapters.
- Dual output: 1 x DVI loop output for local, plus 1 x CAT5 RJ45 output for remote side.
- Built in equalization and signal boost function.
- Hi quality digital video over CAT5 without any signal loss.
- Support DDC, EDID and hot plug detection.
- Use CAT5 cable for DDC and control signals
- HDCP 1.1 compliant.

AT-DVI50R DVI CAT5 Receiver:

Features:

- AT-DVI50R receiver, to work with AT-DVI50S Transmitter for extend DVI signal.
- Using two CAT5E/6 cable, transmission range up to 50 meters at hi resolution 1920 x 1200.
- Built in equalization and signal boost function.
- Support DDC, EDID and hot plug detection.
- One Dip switch for easy setting the working range.

DIP Switch Setting:

1 (Input Equalization Boost Setting)

↑ ON (Cable Length > 25M)

OFF (Cable Length < 25M)

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Recommended 「 ↑ ON 」

Power / Status LED:

[OFF] No Power.

[Blue] Detect Video Clock Signal.

[Red] No Video Clock Signal Detect.

[Purple] No DATA Link Detect.

Caution:

The cabling must away from any equipment with electromagnetic wave, i.e.: microwave, radio equipment, high voltage.

Trouble Shooting:

No picture display:

LED status:

- [OFF] Check Power Adapter.
- [Blue] Check Video Link Cable Length & Quality.
Check Video & Data Cable Connect. Check DIP Switch Setting.
Check HDMI Cable Connect.
- [Red] Check Video & Data Cable Connect.
Check HDCP Compatibility. Check HDMI Cable Connect.
- [Purple] Check DATA Link Cable Connect, Check HDMI Cable Connect.

Picture with noise:

White noise (signal is too weak)

- Check Video Link Cable Connect - Length - Quality.
- Check DIP Switch Setting.

Other color noise (signal too weak or too strong)

- Check Video Link Cable Connect - Length - Quality. Check DIP Switch Setting.

Picture disappear (signal too weak or with interference)

- Check Video Link Cable Connect - Length - Quality.
- Check DIP Switch Setting.
- Cabling away from EMI interference source.

Cable:

Video Link cable using hi quality CAT5E UTP/STP or CAT6 UTP cable,
Recommend to use CAT6 cable if the transmission range over 40 meters.

Data Link cable using CAT5E UTP/STP or CAT6 UTP cable,
It is not hi speed signal transmission, so using regular CAT5E UTP cable will be ok.

RJ45 pin Define:

Video Link (TIA/EIA-568-B)

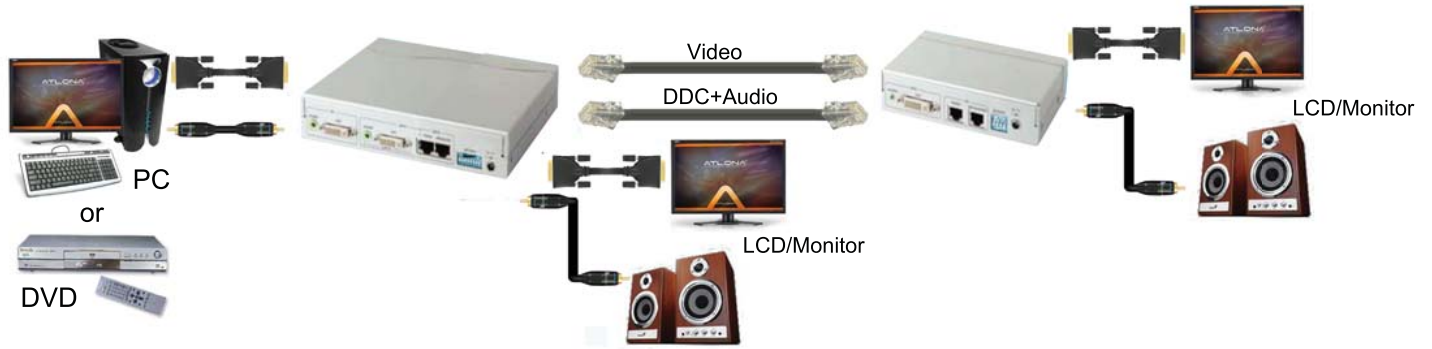
- | | |
|-----------------|---------|
| 1. Orange-white | DATA2 + |
| 2. Orange | DATA2 - |
| 3. Green-white | DATA0 + |
| 4. Blue | DATA1 + |
| 5. Blue-white | DATA1 - |
| 6. Green | DATA0 - |
| 7. Brown-white | CLOCK + |
| 8. Brown | CLOCK - |

Data Link (TIA/EIA-568-B)

- | | |
|-----------------|-----------------|
| 1. Orange-white | DDC SCL |
| 2. Orange | Hot Plug Detect |
| 3. Green-white | DDC SDA |
| 4. Blue | Reserve |
| 5. Blue-white | Reserve |
| 6. Green | GND |
| 7. Brown-white | Reserve |
| 8. Brown | Reserve |

Installation view:

DVI Extender



ITEM NO.	AT-DVI50S	AT-DVI50R
Video Amplifier Bandwidth	1.65 GHz	
Resolution	Up to 1920 x 1200	
Input Video Signal	1.2 volts p-p	
Input DDC Signal	5 volts p-p (TTL)	
Link Cable Distance	CAT5E 45M , CAT6 50M @1920 x 1200	
DVI Cable Distance	28 AWG DVI Cables 6M @1920 x 1200	
DVI Connector	DVI-D 29 pin	DVI-D 29 pin
Stereo Audio Connector	Stereo Jack x 2	Stereo Jack x 1
Link Connector	RJ-45 Shielded x 2	RJ-45 Shielded x 2
Power Supply	5V DC 1200mA Regulated (External)	
Power Consumption	750mA (Max)	400mA (Max)
Temperature	Operation: 0 to 55°C, Storage: -20 TO 85°C, Humidity: up to 95%	
DIMENSIONS W x H x D mm	145x96x37	225x166x40
Weight g	300g	800g

T568A and T568B Wiring **T568B RECOMMENDED FOR ALL SOLUTIONS**

Pin	T568A Pair	T568B Pair	Wire	T568A Color	T568B Color	Pins on plug face (socket is reversed)
1	3	2	tip	white/green stripe	white/orange stripe	
2	3	2	ring	green solid	orange solid	
3	2	3	tip	white/orange stripe	white/green stripe	
4	1	1	ring	blue solid	blue solid	
5	1	1	tip	white/blue stripe	white/blue stripe	
6	2	3	ring	orange solid	green solid	
7	4	4	tip	white/brown stripe	white/brown stripe	
8	4	4	ring	brown solid	brown solid	



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