

Cat5 DVI Extender

Cat5 DVI-D Extender

DVI-CAT-T
DVI-CAT-SR
DVI-CAT-R

User Manual



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User Manual

One-Port Transmitter : DVI-CAT-T

Short Range DVI-D Receiver : DVI-CAT-SR

Long Range DVI-D Receiver : DVI-CAT-R





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Introduction

The Cat5/5e/6 DVI-D Extender consists of a transmitter and a receiver. This pair can extend your DVI-D signal over Cat5/5e/6. If you are using short range receiver (DVI-CAT-SR) to receive the DVI-D signal, the extended distance is similar to standard DVI-D cable; and if using long range receiver (DVI-CAT-R), the extended DVI-D distance can reach the distance up to 100m with an 800x 600 resolution. You can use the audio receiver to extend audio over phone cable to provide a multimedia broadcasting (optional).

Take the advantage of Cat5/5e/6 cable, DVS extender can simplify the installation, extend the AV signal, and centralize the multimedia server. Many nice features have been designed into these units, the single-port transmitter is the smallest one in the world and can connect to DVI port without using another DVI cable. For single port receiver, you can fix the unit very easily through its magnetic pad and optional metal plate.

DVS extender family is perfect for Digital Signage extension to display high resolution and crystallized image and easy to maintain and reduce installation cost.



★ Key Features

1. Extend one DVI-D source over Cat5/5e/6 cable
2. Video Amplifier Bandwidth: 1.65GHz
3. Effective DVI-D extended distance and resolution:
Using short range receiver DVI-CAT-SR: transmitting over Cat5/5e/6 cable, maximum DVI resolution 800x600@20m, 1024x768@15m, 1280x1024@10m
Using long range receiver DVI-CAT-R: transmitting over Cat5/5e/6 cable, maximum DVI resolution 800x600@100m, 1024x768@70m, 1280x1024@60m, 1920x1200@35m
4. DVI Input/Output Connector: Type DVI-I, supports only DVI-D digital video signal
5. RJ-45 to DVI-D receiver (DVI-CAT-SR or DVI-CAT-R) in the DVI monitor or projector to receive the DVI-D signal from Cat5/5e/6 cable
6. Receiver builds in DVI monitor's EDID simulation, computer can boot up DVI signal without connecting local monitor, initial pre-set range of frequency up to 1920x1200
7. LED status to indicate the DVI activity
8. Provides magnetic pad and attachable metal plate for single-port receiver to ease the installation



DVI-CAT-T Transmitter



DVI-CAT-SR Short Range
Receiver



DVI-CAT-R Long Range
Receiver



★ Panel Description

1. DVI-CAT-T Transmitter



-
- ① DVI-D Input (to PC's DVI Port)
 - ② Power Indicator (Orange LED)
 - ③ DDC B Activity (Green LED)
 - ④ RJ-45 DVI-D Output

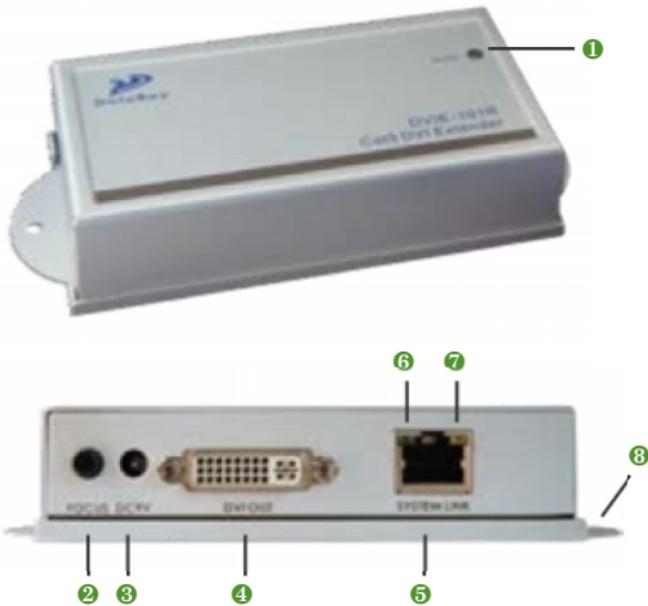
2. DVI-CAT-SR DVI-D Short Range Receiver



-
- ① DVI-D Output (to Monitor)
 - ② RJ-45 DVI-D Input



3. DVI-CAT-R DVI-D Long Range Receiver



- 1 Auto EQ
- 2 Focus / EQ
- 3 Power Jack
- 4 DVI-D Output

- 5 RJ-45 DVI-D Input
- 6 DVI-D Activity
- 7 Power Indicator
- 8 Rack KIT



★ Installation and Operation (Single-Port Transmitter and Receiver)

1. Basic Function Test:

In the beginning, please connect your DVI monitor to your PC or DVI player to confirm the basic display function and remain these devices turned on for next installation sequence.

2. Install Single-Port Transmitter DVI-CAT-T:

Please connect DVI-CAT-T to your PC or DVI player's DVI output port (Your PC is still turned ON), the LED of DVI-CAT-T should all turn ON, the orange LED indicates the power ON status and the green LED indicates the DDC B activity of DVI port. Please notice that the DVIE-101T has pre-set an EDID with a maximum DVI supporting frequency of 1920x1440 and can simulate the behavior of DVI monitor, so the PC's DVI port will remain activate even when you re-boot the PC without plug actual DVI monitor. The pre-set range should satisfy most of the application, if you would like to change the default range, please contact your supplier for more information.



Connect DVI-CAT-T to PC



3. Install Short Range Receiver DVI-CAT-SR:

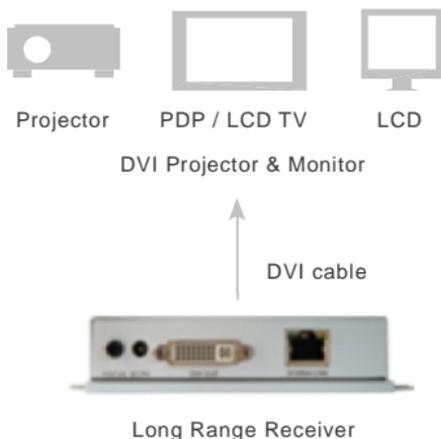
Please connect DVI-CAT-SR to your DVI monitor's DVI port directly. The DVI monitor can be PDP, LCD TV, projector or LCD. The supported DVI resolution and distance will be similar to regular DVI cable. If you are using long range receiver DVI-CAT-R, please refer to next section to install.



Connect Short Range Receiver DVI-CAT-SR to DVI Monitor

4. Install Long Range Receiver DVI-CAT-R:

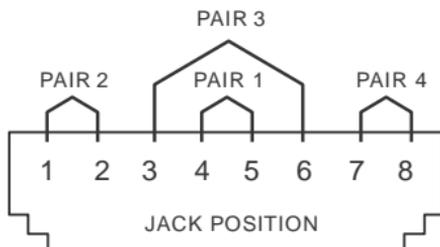
- (1) Plug power adaptor to DVI-CAT-R, the orange LED above RJ-45 should turn ON to indicate the power on status. The other LED should turn off, since there is no input of video signal from "SYSTEM LINK" port.
- (2) The "STATUS" led in the front panel will turn ON as the EQ/FOCUS control switch to the left end and the EQ/FOCUS will stay on AUTO, this will not function until the receiver received video signal from "SYSTEM LINK" port.
- (3) Connect DVI monitor's DVI cable to the receiver.



Connect DVI-CAT-R to DVI Monitor by DVI Cable

5. Selection of Cat5/5e/6 cable:

You may use most of current Cat5/5e/6 cables, and since the quality varies, we do encounter some cables not perform well, even it is expensive. Therefore, please test your current cables before you installing the devices on the site. For some environment need to prevent potential interference, the FTP type cable is recommended. 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.





6. Connect Cat5/5e/6 cable:

Plug two ends of cable to Transmitter and Receiver's RJ-45 "SYSTEM LINK" port, the Receiver's connected monitor should display now and the green LED above DVI-CAT-R's RJ-45 port should turn ON to reflect the DVI signal activation. For DVI-CAT-R, you can manually adjust the EQ/FOCUS to have the best DVI display. The displayed DVI resolution will also relate to the distance been extended, it will be better to test prior actual installation distance and should not exceed the suggested frequency and corresponding distance



Projector



PDP / LCD TV



LCD

DVI Projector & Monitor



Short Range Receiver

or



Long Range Receiver



DVI



Cat5/5e/6 cable



Connection of Single-Port DVI-D Extender



7. Extend Audio Signal:

There is no audio function in the one-port mode, so you need to use a pair of DVI-CAT-AR (optional item) to extend the audio and the cable using is 4-wire phone cable and two ends of the cable should be made by straight RJ-11 connector.



Extended Connection of DVI-D with Audio



★ Specification

Function		DVI-CAT-T
Input		DVI Male x 1
Output		RJ-45 x 1
RJ-45 to DVI-D Receiver and RJ-11 to Audio Receiver (DVI-CAT-AR)		One RJ-45 to DVI-D Receiver (DVI-CAT-SR or DVI-CAT-R)
Max Distance and Resolution	DVI Input	Transmitting over standard DVI cable up to 10 meters
	RJ45 Output	Transmitting over Cat5/5e/6 cable, DVI resolution for short range receiver is 800x600@20m, 1024x768@15m, 1280x1024@10m; for long range receiver is 800x600@100m, 1024x768@70m, 1280x1024@60m, 1920x1200@35m
Signal Type		DVI-D
Power Consumption		DC 5V, 50mA
Housing		Plastic
Dimension (LxWxH) mm		Compact



★ Order Information

Order Details	Part Number	Remark
One-Port DVI-D Transmitter	DVI-CAT-T	
One-Port DVI-D Short Range Receiver	DVI-CAT-SR	
One-Port DVI-D Long Range Receiver	DVI-CAT-R	With DC 9V Power Adaptor x 1
One-Port Audio Receiver	DVI-CAT-AR	



★ Remarks

1. Before operating this splitter, please read operation manual carefully.
2. Please use high quality DVI, audio cable for optimum operation.
3. To prevent potential power damage, please don't use 2-wire extension cord and ensure AC outlets at PCs and monitors are on the same phase and have correct grounding.
4. Limited Warranty:
 - (1) In no events shall the direct 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 direct 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 direct 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 direct vendor.



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