

CAT5 DVI EXTENDER

Cat5 DVI-D Extender

DVIE-101T
DVS-DR
DVIE-101R

User Manual



One-Port Transmitter : DVIE-101T

Short Range DVI-D Receiver : DVS-DR

Long Range DVI-D Receiver : DVIE-101R



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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 (DVS-DR) to receive the DVI-D signal, the extended distance is similar to standard DVI-D cable; and if using long range receiver (DVIE-101R), 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 DVS-DR: transmitting over Cat5/5e/6 cable, maximum DVI resolution 800x600@20m, 1024x768@15m, 1280x1024@10m
Using long range receiver DVIE-101R: 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 (DVS-DR or DVIE-101R) 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



DVIE-101T Transmitter



DVS-DR Short Range Receiver



DVIE-101R Long Range Receiver



PANEL DESCRIPTION

1. DVIE-101T Transmitter



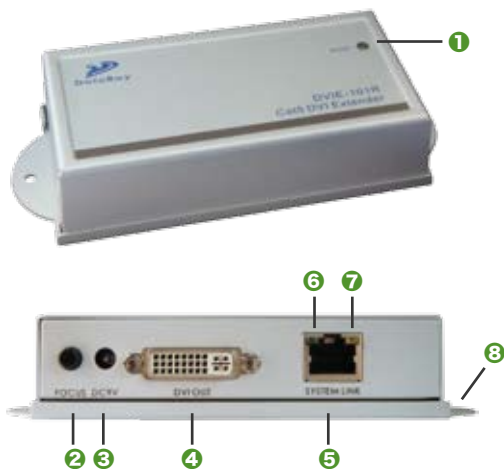
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- 1** DVI-D Input (to PC's DVI Port)
 - 2** Power Indicator (Orange LED)
 - 3** DDC2B Activity (Green LED)
 - 4** RJ-45 DVI-D Output

2. DVS-DR DVI-D Short Range Receiver



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

3. DVIE-101R 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 DVIE-101T:

Please connect DVIE-101T to your PC or DVI player's DVI output port (Your PC is still turned ON), the LED of DVIE-101T should all turn ON, the orange LED indicates the power ON status and the green LED indicates the DDC2B 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 DVIE-101T to PC

3. Install Short Range Receiver DVS-DR:

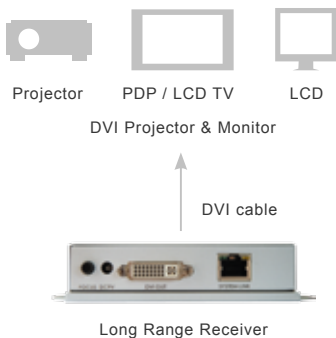
Please connect DVS-DR to your DVI monitor's DVI port directly. The DVI monitor can be PDP, LCD TV, projector or LCD. The supported DVI resolution and distance will be similar to regular DVI cable. If you are using long range receiver DVIE-101R, please refer to next section to install.



Connect Short Range Receiver DVS-DR to DVI Monitor

4. Install Long Range Receiver DVIE-101R:

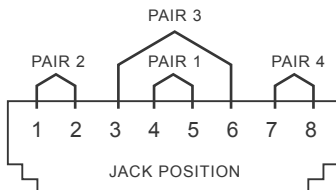
- (1) Plug power adaptor to DVIE-101R, the orange LED above RJ-45 should turn ON to indicate the power on status. The other LED should turn off, since there is no input of video signal from "SYSTEM LINK" port.
- (2) The "STATUS" led in the front panel will turn ON as the EQ/FOCUS control switch to the 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 DVIE-101R 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 DVIE-101R's RJ-45 port should turn ON to reflect the DVI signal activation. For DVIE-101R, 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 and should not exceed the suggested frequency and corresponding distance



DVI Projector & Monitor



Short Range Receiver

or



Long Range Receiver



DVI



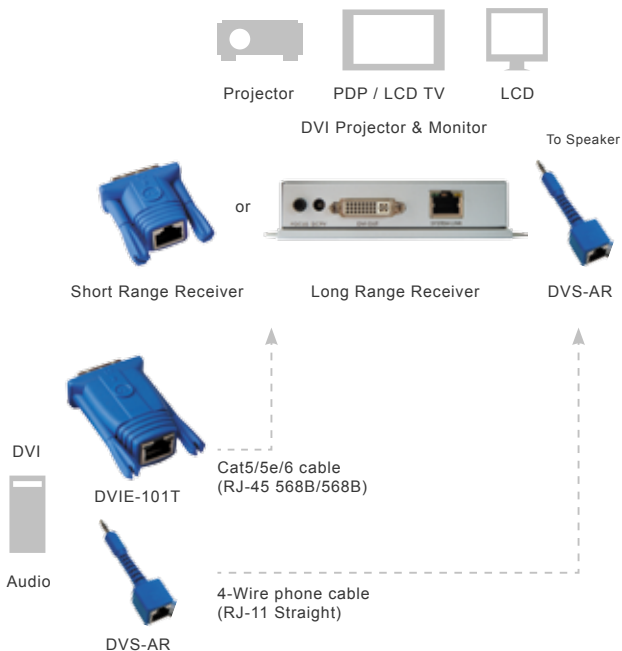
Cat5/5e/6 cable



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 DVS-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		DVIE-101T
Input		DVI Male x 1
Output		RJ-45 x 1
RJ-45 to DVI-D Receiver and RJ-11 to Audio Receiver (DVS-AR)		One RJ-45 to DVI-D Receiver (DVS-DR or DVIE-101R)
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, 250mA
Housing		Plastic
Dimension (LxWxH) mm		Compact

ORDER INFORMATION

Order Details	Part Number	Remark
One-Port DVI-D Transmitter	DVIE-101T	
One-Port DVI-D Short Range Receiver	DVS-DR	
One-Port DVI-D Long Range Receiver	DVIE-101R	With DC 9V Power Adaptor x 1
One-Port Audio Receiver	DVS-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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