DVI over one CAT6 Extender

- ID# 854

Operation Manual

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Introduction

The DVI-D Transmitter and Receiver over One CAT6 is an intelligent device for extending your DVI-D signal over long distances to a compatible display. Instead of searching for lengthy DVI cables, your existing CAT6 cables can be utilized to perform advanced functions, along with a bandwidth up to 2.25Gbps per channel. Also, the device receives power through its USB connection, while Receiver is powered by the CAT6 connection, which makes installing and powering the Transmitter and Receiver more convenient. These devices are hardware based with fast and easy installation and are perfectly suited for common PC and notebook using.

Features

• Supports digital video formats up to 36 bits
• Support high definition input/output up to WUXGA/1080p
• Uses one CAT6 cable for data/DDC transmission
• Equalizes and recovers incoming TMDS data before re-transmitting it in optimal quality
• DVI Cable testing showed that with WUXGA/1080p 8bit resolution, input or output device can run up to 12 meters away and with WUXGA/1080p12bit resolution it can run up to 10 meters away
• When transmitting a signal in WUXGA/1080p 8bit resolution the CAT6 operating distance is 40 meters, and when the signal is in 12bit resolution the CAT6 operating distance is 15 meters
• It is recommended to use power adaptor on both transmitter and receiver side to get the best performance and long distance operating.
• Using power adaptor on transmitter side only, receiver side powered over CAT6 cable, the operating CAT6 cable distance will decrease to 20 meters or less.
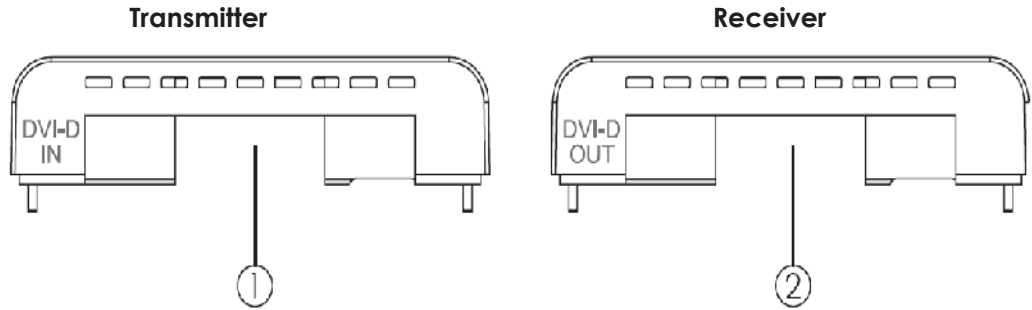
Applications

• DVI-D signal extension over CAT6
• DVI-D signal transmitting over long distance

System Requirements

Input DVI-D signal source and output DVI-D input display with DVI connection cables and CAT6 cable in between the transmitter and receiver device.

Operation Controls and Functions
Front Panel

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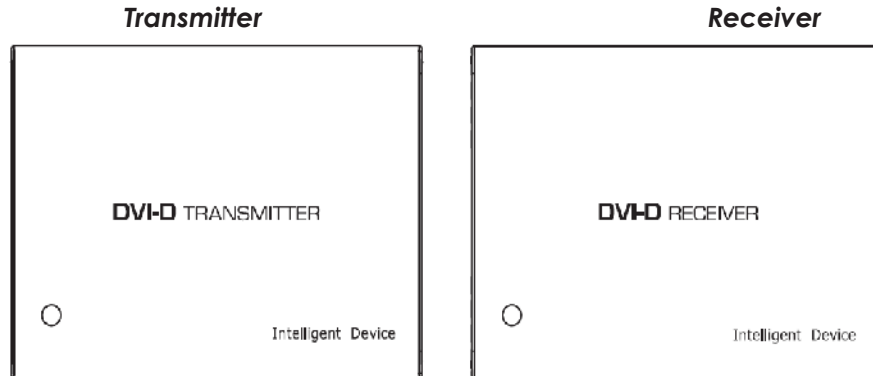
Transmitter   **Receiver**

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1. DVI-D IN: This slot is to connect with source equipment such as PC or graphic card for input signal sending.
2. DVI-D OUT: This slot is to connect with display monitor or TV for image display.

Rear Panel

<div align="center">

Transmitter   *Receiver*

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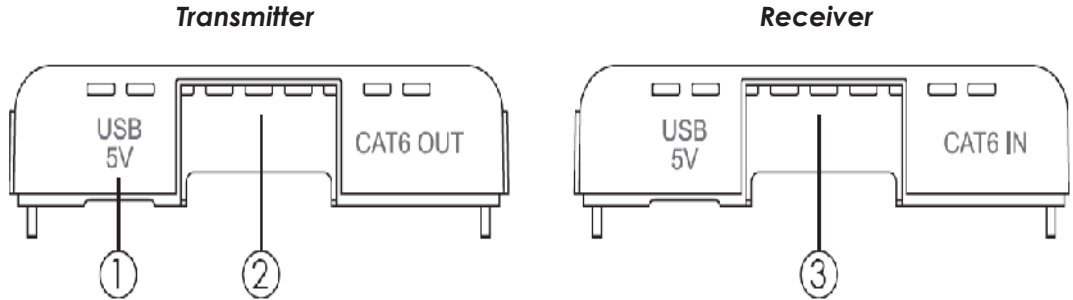
1. SDI IN: This slot is where you connect the SDI source to, in order to send a SDI signal to a display.
2. SDI OUT: This slot is where you connect the SDI display to, with an SDI cable for displaying images. Connect it to another SDI to HDMI converter/ extender to extend your signal or connect to multiple displays.
3. DC 5V: Plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet. The red LED will turn on when the power is on.

Top Panel

<div align="center">

Transmitter   *Receiver*

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1. Power LED: The blue LED will illuminate when the device is connected with power and detected the signal.

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Specifications

Transmitter

Input	1 x USB (for Power), 1 x DVI-D
Output	1 x CAT6

Receiver

Input	1 x USB (for Power), 1 x CAT6
Output	1 x DVI-D
Input Cable Distance	12M/ WUXGA or 1080p 8bit, 10M/ WUXGA or 1080p 12bit
Output Cable Distance	12M/ WUXGA or 1080p 8 bit, 10M/ WUXGA or 1080p 12 bit
CAT6 Cable Distance	40M/ WUXGA or 1080p 8bit, 15M/ WUXGA or 1080p 12 bits
ESD Protection	Human Body Model: ± 8kV (air-gap discharge) : ± 4kV (contact discharge)
Operating Temperature	0ºC ~ 45ºC/ 32ºF ~104ºF
Storage Temperature	-20ºC ~ 60ºC/ -4ºF ~140ºF
Relative Humidity	20~90% RH (non-condensing)
Power Consumption	3.5W/TX, 2W/RX

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Connection

NB   or   PC

12M WUXGA/1080p 8bits
10M WUXGA/1080p 12bits

40M WUXGA/1080p 8bits
15M WUXGA/1080p 12bits

12M WUXGA/1080p 8bits
10M WUXGA/1080p 12bits

Display