

# CA-DVIAT & CA-DVI100R

## DVI over CAT5 Transmitter & Receiver Box

### Operation Manual



## ***Revision History***

<b><i>Version No</i></b>	<b><i>Date</i></b>	<b><i>Summary of Change</i></b>
<b><i>V1</i></b>	<b><i>20090401</i></b>	<b><i>Preliminary Release</i></b>

## ***Precaution***

Failure to follow the precautions described below may cause damage to DVI over CAT 5 Transmitter and Receiver Box and void the warranty.

- DO NOT open the case. Doing so will void the warranty. If you find problem with it, please return back to your retailer or seller who will assist you or provide you with solution.
- DO NOT use third-Party AC adapter or power cord. Doing so may damage DVI over CAT 5 Transmitter and Receiver Box.
- DO NOT bump, jar or drop contents of the products as it may damage it and result in warranty void.
- DO NOT set any liquids or beverages on the drive as they may damage DVI over CAT 5 Transmitter and Receiver Box.

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## **1. Introduction**

DVI transmitter and receiver over CAT 5 is a pair of extender for DVI signal - up to 100 meters long. Not only can this device transfer the HD image signal but also the analog/digital audio signal with coaxial and L/R audio port. This extender is perfect for extending high resolution digital display with crystal clear images over low cost CAT5 solution.

## **2. Application**

- For long distance DVI source display in a separate room or class.
- For long distance digital and analog sounds transferring up to 100M long.
- Any PC source equipment with output DVI connector.

## **3. Contents**

- DVI over CAT 5 Transmitter x 1
- DVI over CAT 5 Receiver 100M x 1
- Operational Manual x 1
- 5V/2.6A Power Adaptor x 2

## **4. System Require**

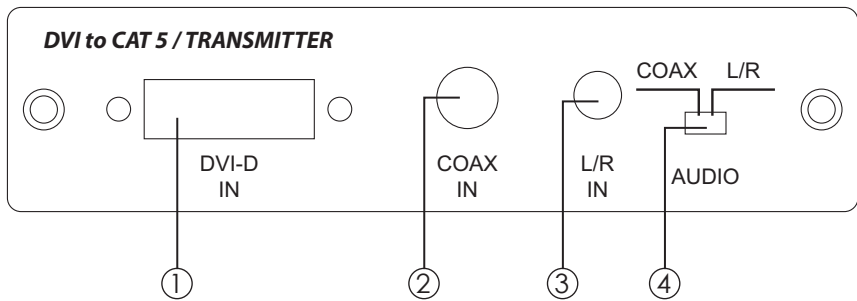
PC/DVI source with DVI output connector, DVI to DVI cable(s), CAT 5 cable(s) and DVI display monitor.

## 5. Features

- Compliant with HDMI 1.2, and DVI 1.0 specifications.
- Support Equalizer, and Gain adjustment.
- Supports high definition input up to 1080P/WUXGA, output resolution follows input.
- Easy to install and simple to operate.
- Connect CAT 5 back to DVI without signal loss after 100 meter's transmission.
- Not compatible with HDCP Source.
- Build-in EDID at transmitter.
- Support both external Coaxial and Stereo Sound.

## 6. Operation Controls and Functions

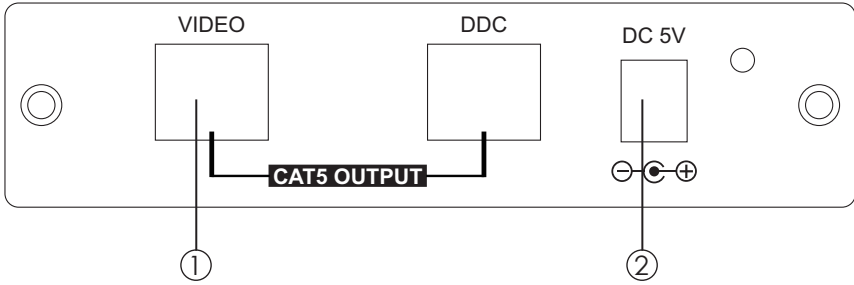
### 6.1 Transmitter's Front Panel



- ① DVI-D IN – Plug from DVI/HDMI source equipment's video output with DVI in cable.
- ② COAX IN – Plug from DVI/HDMI source equipment's audio output with coaxial cable.
- ③ L/R IN – Plug from DVI/HDMI source equipment's audio output with L/R phone jack cable.
- ④ AUDIO switch – Switch your audio source by COAX in or L/R in.

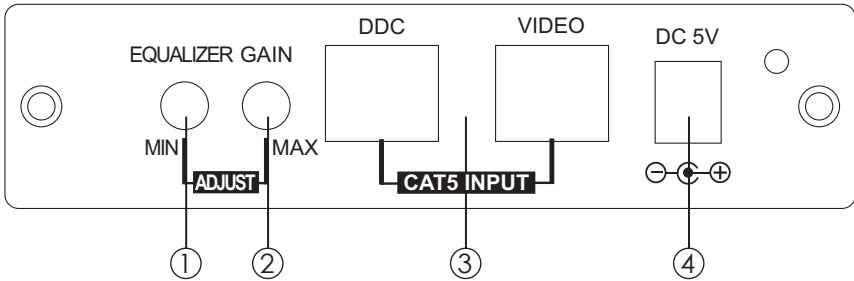
- Note:** 1. When Coax-in's audio format is bitstream (AC3, DTS and....etc.) Coax-out will perform the some format, but L/R out will perform no sound therefore, audio source format will need to be change to LPCM in order to get L/R out to perform.
2. When inputing HDMI Source with audio signal throug HDMI to DVI-D adaptor and output DVI-D with DVI-D to HDMI adaptor, the audio will remain with HDMI instead of COAX or L/R IN.

## 6.2 Transmitter's Rear Panel



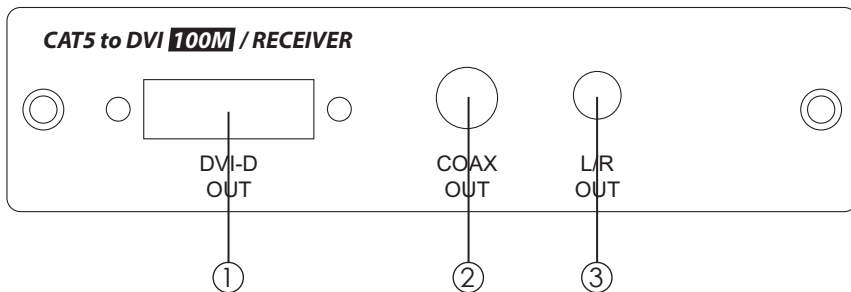
- ① VIDEO CAT5 OUTPUT-connect the VIDEO output to the VIDEO input of receiver with CAT-5/CAT-5E cable.
  - ② Power Jack – Connect with 5V / 2.6A power adaptor with power supply.
- Note:** 1. When using video connector only for signal transmit with transmitter and receiver, the DVI-D output signal will have auto HDCP protection.
2. When using both video and DDC connector for signal transmit with transmitter and receiver, the DVI-D output signal's HDCP protection will depend on input signal.
- Input with HDCP protection, Output with HDCP protection.
  - Input without HDCP protection, Output without HDCP protection.

## 6.3 Receiver's Front Panel



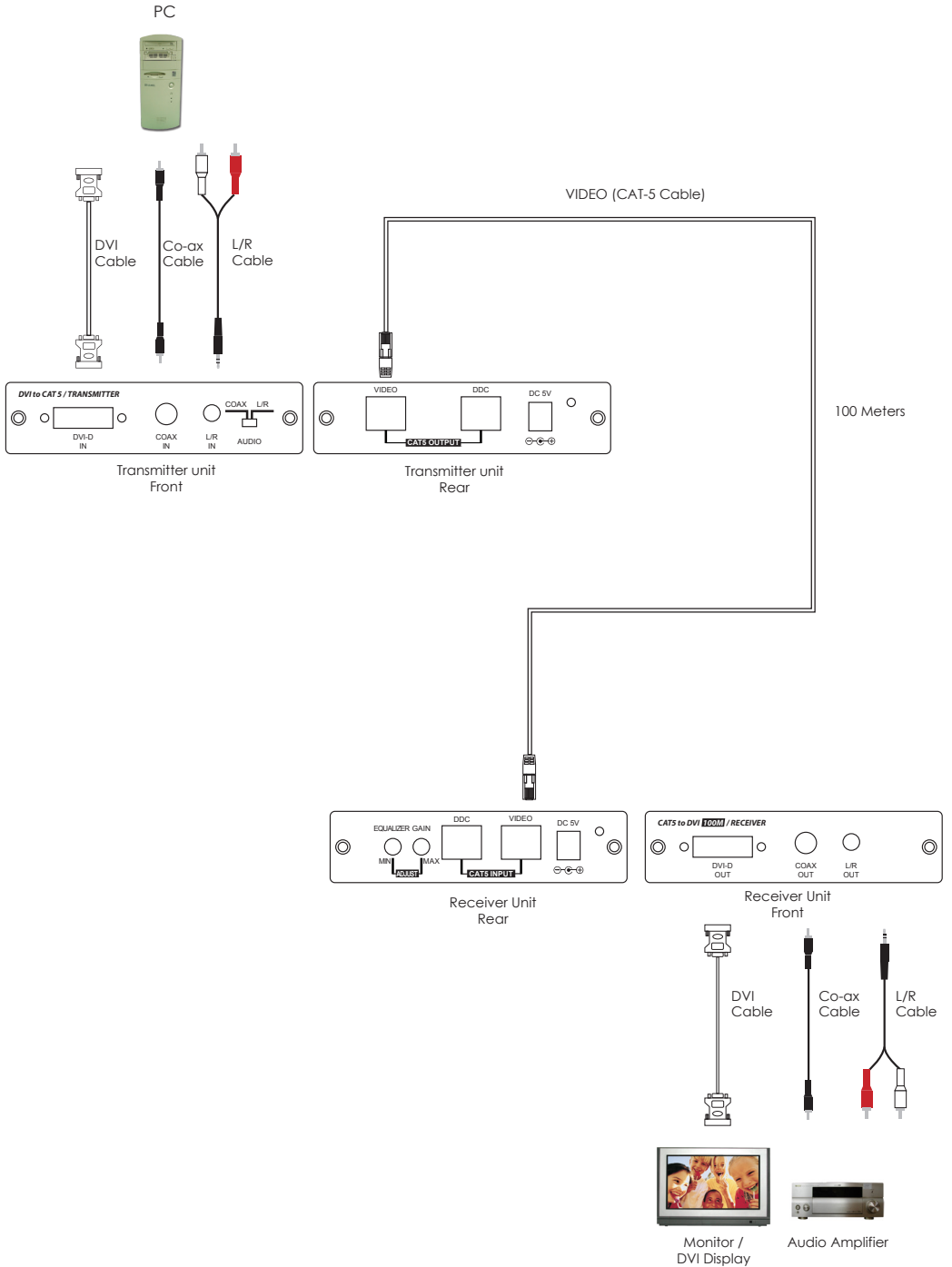
- ① EQUALIZER – Use this switch to adjust Sharpness/Peak over long distance by turning right or left.
- ② GAIN – Use this switch to adjust Brightness/Contrast by turning right or left.
- ③ VIDEO CAT 5 INPUT – Connect the VIDEO input to the Video output of the transmitter with CAT-5/CAT-5E cable.  
(Suggest using solid UTP CAT5 cable for better performance)
- ④ Power Jack – Connect with 5V / 2.6A power adaptor with power supply.

## 6.4 Receiver's Rear Panel



- ① DVI-D OUT – Connect to DVI display monitor with DVI cable.
- ② COAX OUT – Connect to audio amplifier or audio equipment's input with coaxial cable.
- ③ L/R OUT – Connect to audio equipment's input with 3.5mm phone jack.

# 7. Connection and Installation





## 8. Specifications

Transmitter Input port	1 x DVI-I female port (Accept DVI-D signal only) 1 x Coaxial 1 x L/R Audio
Transmitter Output port	2 x CAT5 RJ 45 8pin
Receiver Input port	2 x CAT5 RJ 45 8pin
Receiver Output port	1 x DVI-I female port (Output DVI-D Signal only) 1 x Coaxial 1 x L/R Audio
Resolution	HD- 480i/p 60, 576p 50, 720P 50/60, 1080i 50/60Hz, 1080p 50/60Hz  PC- 640 x 480=VGA72, VGA75, VGA85 800 x 600=SVGA56, SVGA60, SVGA72, SVGA75, SVGA85 1024 x 768=XGA60, XGA70, XGA75, XGA85 1280 x 1024=SXGA60, SXGA75, SXGA85 1600 x 1200=UXGA60 1920 x 1200=Reduced blanking WUXGA
Power Supply	5V / 2.6A DC power supply
Dimensions (mm)	125 x 130 x 30 / each
Weight (g)	700 /each
Material	Aluminum
Color	Silver
Power Consumption	Transmitter 7W Receiver 6W







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