CA-DVIAT & CA-DVI100R

DVI over CAT5 Transmitter & Receiver Box

Operation Manual

CA-DVIAT & CA-DVI100R
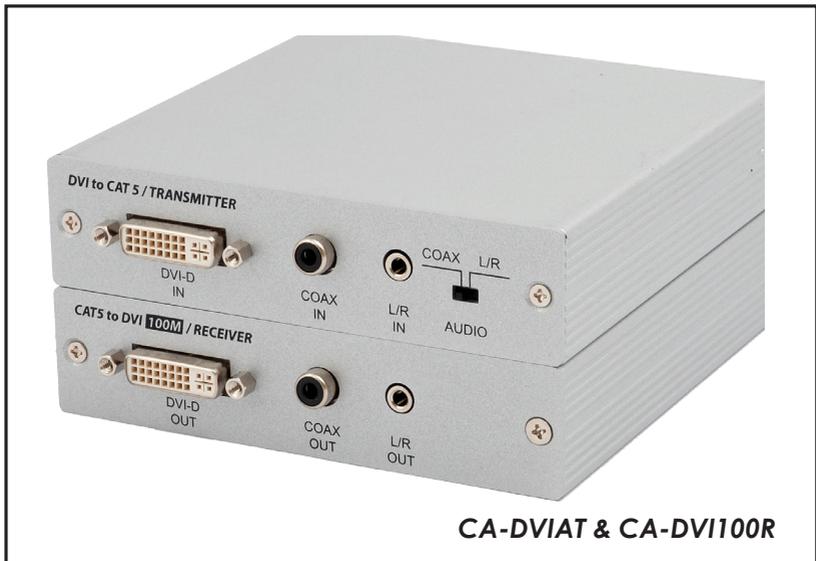
Revision History

Version No	Date	Summary of Change
V1	20090401	Preliminary Release

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.

Table of Contents

1. Introduction
The DVI transmitter and receiver over CAT 5 is a pair of devices that are able to extend your DVI signal up to a distance of 100m. Not only can these devices transfer HD quality signals but they can also send analog/digital audio signals with their coaxial and L/R audio ports. This extender is the best way for extending high resolution digital displays using CAT5 cables.

2. Application
- Displaying a DVI signal in a distant room.
- Transferring digital/analog audio up to 100m's away.

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

5. Features

- Compatible with HDMI 1.2, and DVI 1.0.
- Supports Equalizer and Gain adjustment.
- Has high definition input/output up to 1080P/WUXGA.
- Easy to install and operate.
- Connects CAT 5 to DVI without any signal loss even after transferring 100 meters.
- Not compatible with HDCP Sources.
- The Transmitter includes a built-in EDID.
- Supports both Coaxial and Stereo external sound.

# 6. *Operation Controls and Functions*
6.1 Transmitter's Front Panel
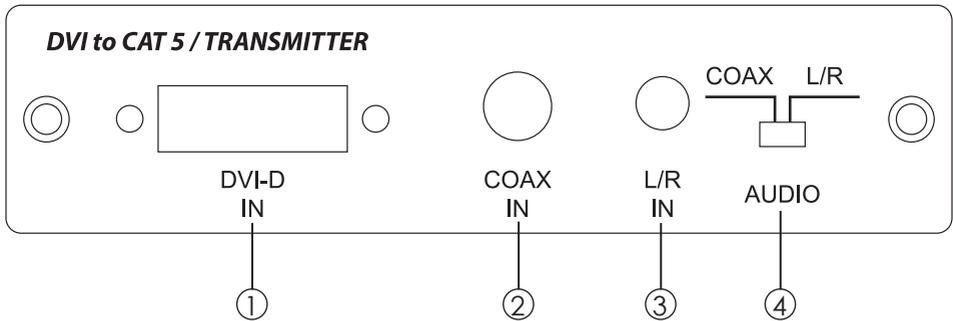
① DVI-D IN – Connect the DVI/HDMI source equipment's video output with the Transmitters DVI DVI/HDMI input.

② COAX IN – Plug the coaxial cable from the DVI/HDMI source into the Transmitters COAX input.

③ L/R IN – Insert the DVI/HDMI source's audio output with L/R audio cable into the Transmitters L/R input.

④ AUDIO switch – Switch your audio source by selecting either COAX in or L/R in.

Note: 1. When the coaxial inputs audio format is bitstream (AC3, DTS and....etc.) Coax-out will keep playing, but the L/R out will no longer have any sound, so therefore the audio source format will need to be changed to LPCM in order to get the L/R out to perform as expected.

2. When receiving an HDMI input source with an audio signal through an HDMI to DVI-D adaptor and sending it out through DVI-D to HDMI adaptor, the audio signal will remain HDMI instead of COAX or L/R IN.
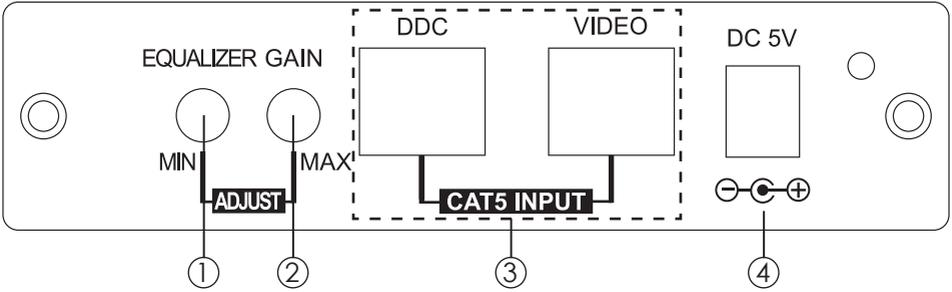
6.2 Transmitter's Rear Panel
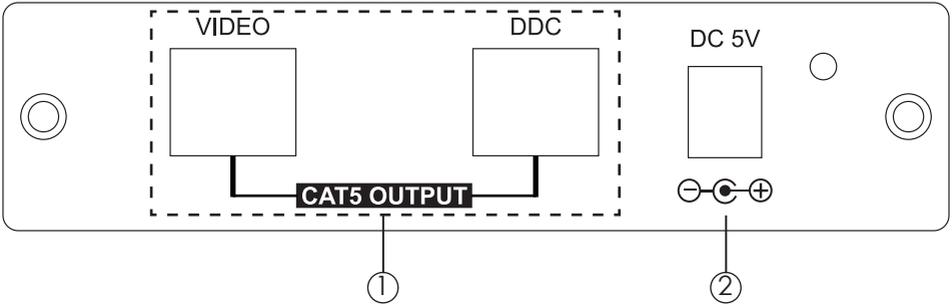
① VIDEO CAT5 OUTPUT- Connect the Video output to the Video input of the receiver with a CAT-5/CAT-5E cable.

② Power Jack – Plug the 5V / 2.6A power supply into the unit and connect the adaptor to an AC outlet.

Note: 1. When using only the Video output for transmitting a signal, the DVI-D output signal will automatically have HDCP protection.

2. When using both the video and DDC output's for signal transmission, the DVI-D output signal might have HDCP protection but will depend on the input signal.

- When input has HDCP protection, output will also have HDCP protection.
- When input does not have HDCP protection, output will not have HDCP protection.
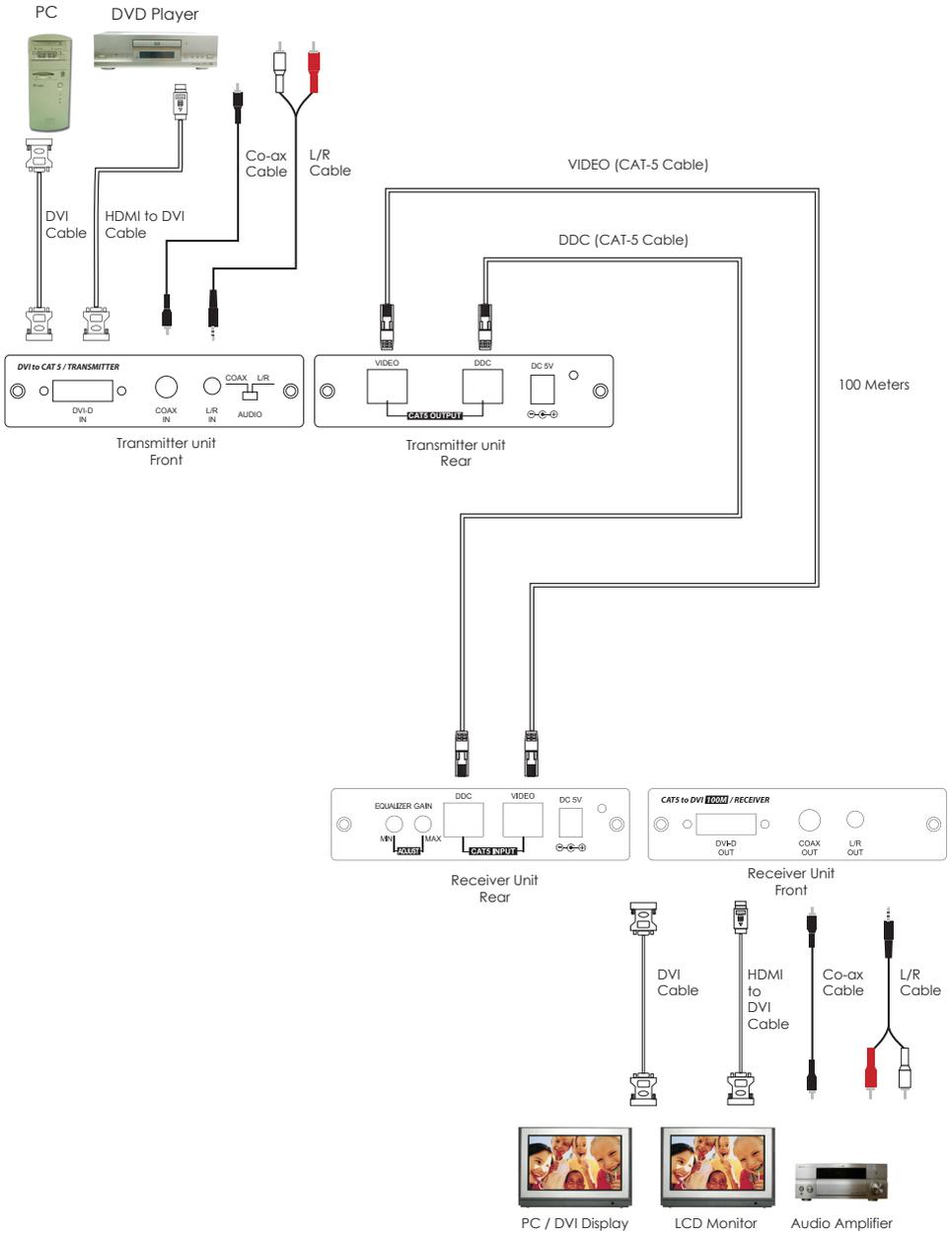
6.3 Receiver's Front Panel

① EQUALIZER – Turn this switch left or right in order to adjust for distortion during long distance transmission.

② GAIN – Adjust the Brightness and Contrast by turning the switch right or left.

③ VIDEO CAT 5 INPUT – Connect the Video input to the Video output of the Transmitter with a CAT-5/CAT-5E cable. (Suggest using solid UTP CAT5 cable for better performance)

④ Power Jack – Plug the 5V / 2.6A power supply into the unit and connect the adaptor to an AC outlet.

6.4 Receiver's Rear Panel
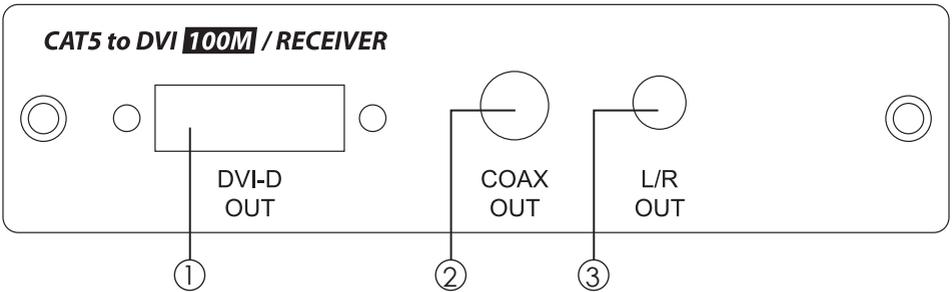
① DVI-D OUT – Use a DVI cable to connect with a DVI display.

② COAX OUT – Connect to an audio amplifier/equipments input with acoaxial cable.

③ L/R OUT – Plug into an audio equipment's input using a 3.5mm jack.

7. Connection and Installation

PC

DVD Player

Co-ax Cable

L/R Cable

VIDEO (CAT-5 Cable)

DVI Cable

HDMI to DVI Cable

DDC (CAT-5 Cable)

DVI to CAT 5 / TRANSMITTER

DVI-D IN   COAX IN   L/R IN   COAX L/R AUDIO

Transmitter unit Front

VIDEO   DDC   DC 5V

CAT5 OUTPUT

Transmitter unit Rear

100 Meters

EQUALIZER GAIN   DDC   VIDEO   DC 5V

MIN   MAX   ADJUST   CAT5 INPUT

Receiver Unit Rear

CAT5 to DVI 100M / RECEIVER

DVI-D OUT   COAX OUT   L/R OUT

Receiver Unit Front

DVI Cable

HDMI to DVI Cable

Co-ax Cable

L/R Cable

PC / DVI Display   LCD Monitor   Audio Amplifier

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
	1 x Coaxial
	1 x L/R Audio
Resolution	HD- 480i/p 60, 576p 60, 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