

# CH-1107EX

HDMI/CAT6 to Single CAT6 Extender



Operation Manual

# SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

# REVISION HISTORY

VERSION NO.	DATE DD/MM/YY	SUMMARY OF CHANGE
VS1	25/10/11	First Release

# CONTENTS

- 1. Introduction..... 1
- 2. Applications..... 1
- 3. Package Contents ..... 1
- 4. System Requirements..... 1
- 5. Features ..... 1
- 6. Operation Controls and Functions.....2
  - 6.1 Front Panel .....2
  - 6.2 Rear Panel.....3
- 7. Connection Diagram ..... 4
- 8. Specifications ..... 5
- 9. Acronyms ..... 5

## 1. INTRODUCTION

The HDMI™/CAT6 to Single CAT6 Extender is an advanced solution for HDMI and CAT6 signal distribution. The CAT6 output port can be easily connected to CAT6 to HDMI receivers to allow a stable connection between an HDMI source and any compatible HDMI display. Alternatively, it can be cascaded to extend the signal to several hundred meters.

## 2. APPLICATIONS

- Smart AV Installation for HDMI signal extension
- Household entertainment media sharing

## 3. PACKAGE CONTENTS

- HDMI/CAT6 to single CAT6 extender
- Operation Manual
- 5V/1 A DC Power Supply Adaptor

## 4. SYSTEM REQUIREMENTS

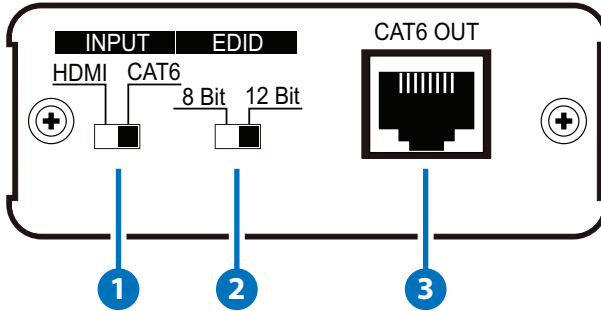
Input HDMI/DVI source equipment or HDMI to single CAT6 transmitter and output to single CAT6 to HDMI receiver.

## 5. FEATURES

- HDCP 1.1 and DVI 1.0 compliant.
- HDMI v1.3 with Deep Color video up to 12-bit, 1080p@24/60Hz.
- Supports LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission (32–192 kHz Fs sample rate).
- Supports a wide range of PC and HDTV resolutions from VGA to WUXGA and 480i to 1080p.
- Fully HDCP Compliant.
- EDID 8/12-bit setting switch.

## 6. OPERATION CONTROLS AND FUNCTIONS

### 6.1 Front Panel



#### 1 HDMI/CAT6 Input Switch

This switch allows users to select either HDMI or CAT6 as the input source.

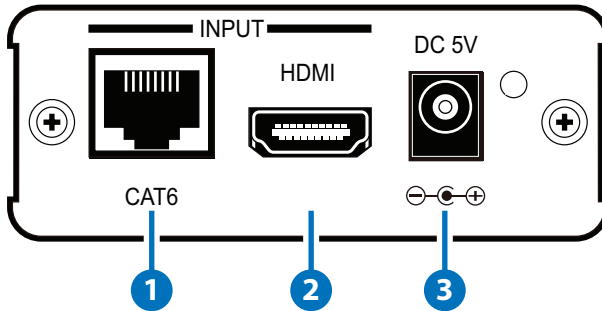
#### 2 EDID 8/12-bit switch

This switch allows users to change the output display's EDID between 8- or 12-bit resolution.

#### 3 CAT6 Out

This port is to connect to a single CAT6 to HDMI receiver device attached to an output display.

## 6.2 Rear Panel



### 1 CAT6 Input

This port connects a single CAT6 transmitter device attached to a source device by HDMI.

### 2 HDMI Input

HDMI connector to connect a suitably equipped source device such as DVD/Blu-ray player.

### 3 DC 5V

This socket is where you plug the 5V DC PSU into the unit, connect the PSU to an AC outlet.

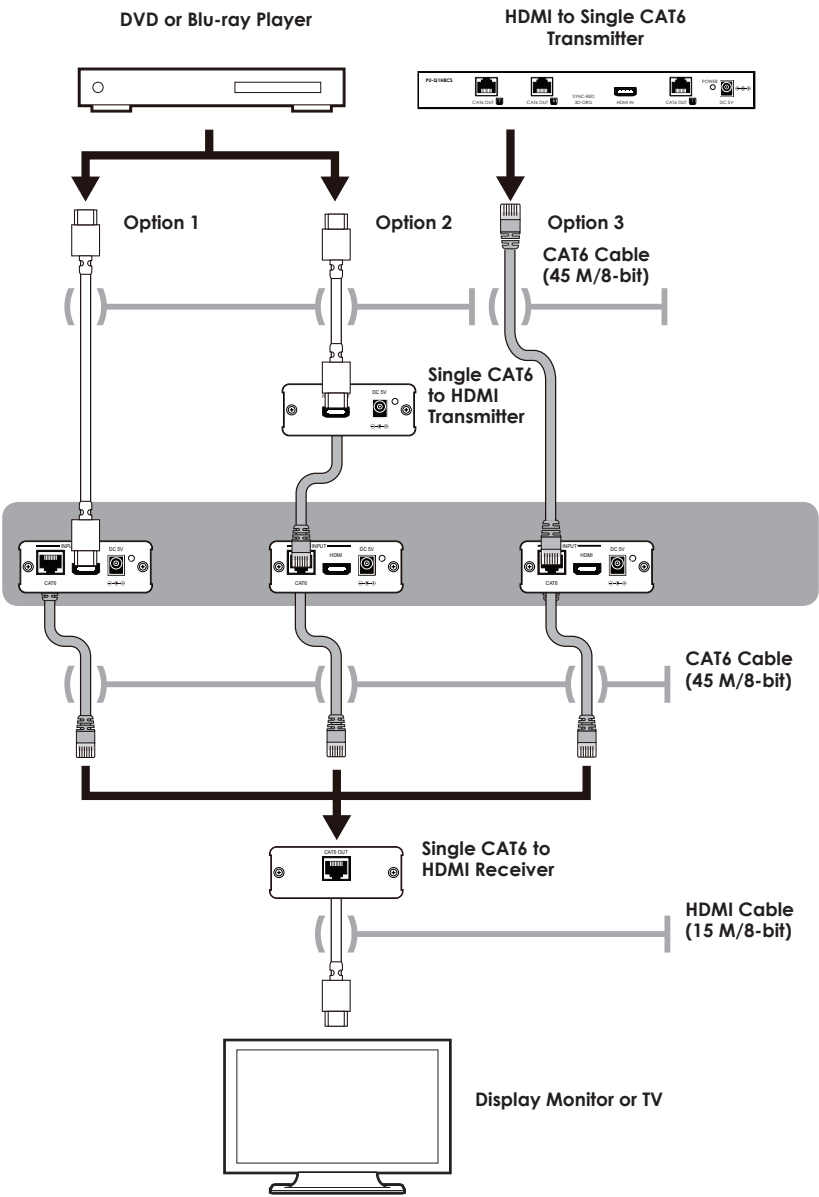
## NOTE

A. Unit tested with CAT6E/23AWG/Solid cable, using cables of another specification may result in a different operating distance.

B. Source equipment used in cable distance testing included: Sony Playstation 3 (120GB model), 37" Philips 8-bit LCD TV and 40" Samsung 12-bit LCD TV.

C. Figures provided in this manual are for reference only, actual performance may vary according to which source and display are used as well as the type of cable used.

# 7. CONNECTION DIAGRAM



## 8. SPECIFICATIONS

<b>Bandwidth Frequency</b>	2.25Gbps (single link)
<b>Input Ports</b>	1 × HDMI female port , 1 × CAT6 input
<b>Output Ports</b>	1 × CAT6 output
<b>EDID</b>	TV
<b>HDMI Cable In</b>	1080p 8-bit (15m), 12-bit (15m)
<b>CAT6 Cable In/Out</b>	1080p 8-bit (7~45m), 12-bit (7~15m)
<b>HDMI Resolution</b>	480i~1080p50/60, 1080p24, VGA~WUXGA
<b>ESD Protection</b>	Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge)
<b>Power Supply</b>	5V DC/1 A linear power adaptor (US/EU standards,CE/FCC/UL certified) or 5V/1.2A switching power adaptor (with universal plug, CE/FCC/UL certified)
<b>Dimensions</b>	78.5mm (W) × 102mm (D) × 30mm (H)
<b>Weight</b>	182g
<b>Chassis Material</b>	Metal
<b>Silkscreen Colour</b>	Silver
<b>Power Consumption</b>	4.1 W
<b>Operating Temperature</b>	0°C~40°C/32°F~104°F
<b>Storage Temperature</b>	-20°C~60°C/-4°F~140°F
<b>Relative Humidity</b>	20~90% RH (non-condensing)

## 9. ACRONYMS

ACRONYM	COMPLETE TERM
CAT6	Category 6 Cable
HDMI	High Definition Multimedia Interface