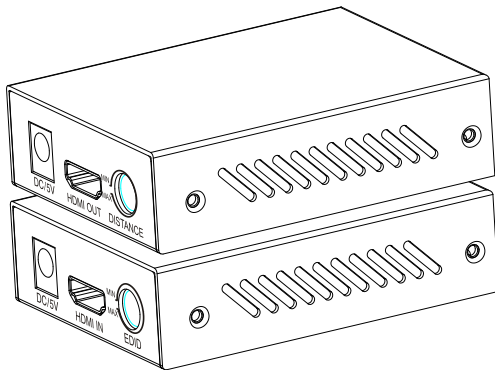


Model No.: CT-HDVD-EXT-IR120

# USER MANUAL



## CT-HDVD-EXT-IR120



# WARNINGS

**CAUTION:** To reduce the risk of electrical shock do not remove the cover or back of this unit. No user serviceable parts are inside.

**CAUTION:** To prevent electric shocks and risk of fire hazards, do not use other than specified power source.

**CAUTION:** To prevent electric shocks and risk of fire hazards, do not expose this equipment to rain or moisture.

**CAUTION:** Pay attention to NEC articles 810-21, 820-22, and 820-40 that provide guidelines for proper grounding.

Inspect the front and rear of the equipment for shipping damage. Make sure the equipment is clean, and no connectors are broken, damaged, or loose. If equipment appears to be damaged or defective please contact your distributor or CableTronix at 1-610-429-1511 for assistance.



# Introduction

The **CT-HDVD-EXT-IR120** is an HDMI extender that utilizes CAT-5E/6 cable as transmission media.

Benefits from using the CT-HDVD-EXT-IR120:

- 1) The length of an HDMI cable is limited due to technical reasons. The CT-HDVD-EXT-IR120 allows the user to extend the reach of an HDMI signal up to 120 feet.
- 2) By using the CT-HDVD-EXT-IR120, the transmission distance for 1080P reaches up to 120 feet.
- 3) The CT-HDVD-EXT-IR120 has the ability of buffering and amplifying the signal for the best quality. Connecting two CT-HDVD-EXT-IR120 in series (Daisy chained) achieves a longer distance transmission of the HDMI signal.
- 4) The CT-HDVD-EXT-IR120 allows for IR system control from the destination back to the source.

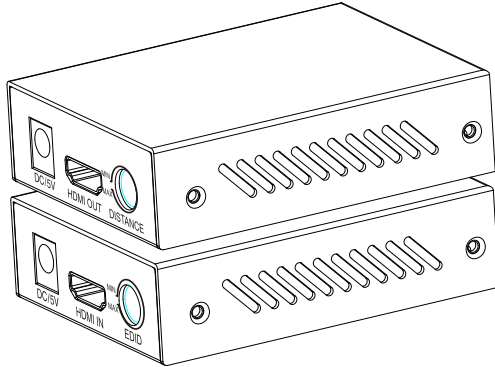
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# HDMI Extender (By single CAT-5E/6E cable)

## ■ Product Overview ( Model Number: CT-HDVD-EXT-IR120)



## ■ Features

- Automatic adjustment of equalization and amplification for optimal signal.
- Use of a single UTP LAN cable (CAT-5E/6) to extend an HDMI signal to achieve long distance transmission.
- UTP cable termination follows the standard of IEEE-568B.
- Transmission distance reaches up to 120 feet at the video format of 1080P.
- HDMI V1.3b supported.
- Each port supports HDMI or DVI inputs.
- HDCP compliant.
- LED indicators to show the power and video signal status.
- ESD protection inside.
- Mounting ears supplied.
- Passes IR control signal together with the HDMI signal.
- Cascadable.

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 Notice

CableTronix reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

 **Warning**

**To reduce the risk of fire, electric shock or product damage:**



1. Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



6. Clean this apparatus only with dry cloth.



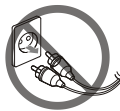
2. Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure the unit is well ventilated.



7. Unplug this apparatus during lightning storms or when unused for long periods of time.



3. To prevent risk of electric shock or fire hazard due to overheating, do not obstruct the unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.



8. Protect the power cord from being walked on or pinched particularly at plugs.



4. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9. Only use attachments / accessories specified by the manufacturer.



5. Do not place sources of flames, such as lighted candles, on the unit.



10. Refer all servicing to qualified service personnel.

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## ■ Package Contents


- ① CT-HDVD-EXT-IR120.
- ② Mounting ears.
- ③ Operating Instructions.
- ④ 2x 5VDC power supply
- ⑤ IR TX UNIT (IR emitter cable).
- ⑥ IR RX UNIT (IR receiver cable).

## ■ Connections and Operations

- 1) Connect the HDMI input source (such as: HD-DVD、PS3、STB etc.) to the CT-HDVD-EXT-IR120 transmitter.
- 2) Connect a CAT-5E/6 cable to both the transmitter output and the input of the receiver. (The cables must follow the standard of EIA/TIA 568B )
- 3) Connect the HDMI receiver (such as: HD-LCD、HD-DLP) into the receiver unit.
- 4) Connect the IR TX UNIT into receiver IR TX; Connect the IR RX UNIT into transmitter IR RX.
- 5) DIP SWITCH Description.

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## ■ DIP Switch Settings

 **NOTE:** The DIP switch position from left to right matches the table below. (Disregard A-F Values)

### CT-HDVD-EXT-IR120

Position	Transmitter Functions
0	1080P stereo (Note1)
1	1080p 5.1 (Note2)
2	EDID Copy Mode (Copy EDID from display ) (Note3)
3	1080i stereo (Note4)
4	1080P stereo (LC mode)
5	1080p 5.1 (LC mode)
6	EDID Copy Mode (LC mode)
7	1080i stereo (LC mode)

**CT-HDVD-EXT-IR120** (below are settings to select when using different lengths of CAT-5E/6 UTP).

Position	Receiver Functions
0	0-35 feet CAT-5E/6 UTP cable length
1	
6	36-120 feet CAT-5E/6 UTP cable length
7	

**Note1:** The CT-HDVD-EXT-IR120 will use the embedded 1080P-stereo compatible EDID when the DIP switch is in this mode.

**Note2:** The CT-HDVD-EXT-IR120 will use the embedded 1080p 5.1 EDID when the DIP switch is in this mode.

**Note3:** The CT-HDVD-EXT-IR120 will receive EDID from the display when the DIP switch is in this mode.

**Note4:** The CT-HDVD-EXT-IR120 will use the embedded 1080i stereo EDID




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when the DIP switch is in this mode.

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## ■ Specifications

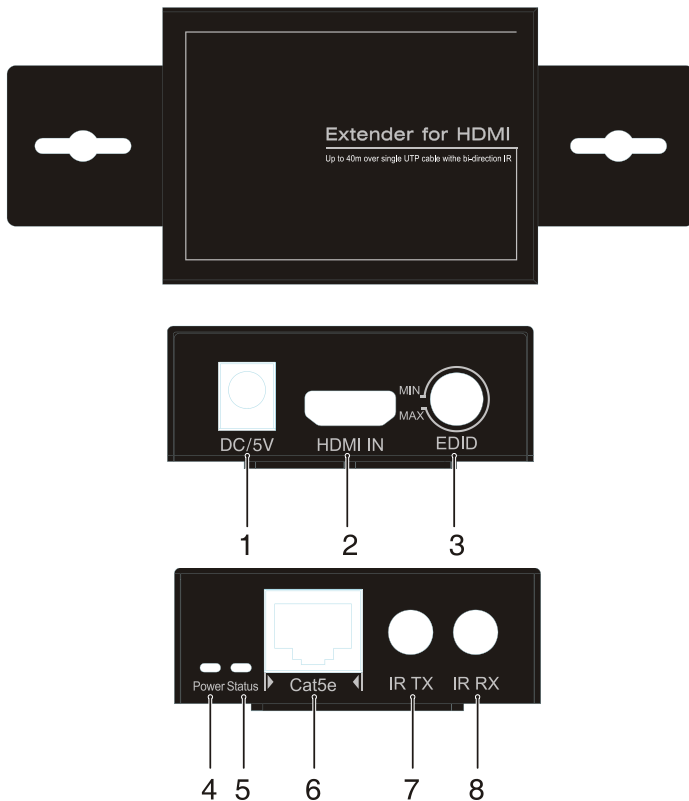
Operating Temperature Range	-5 to +35°C (-41 to +95 °F)
Operating Humidity Range	5 to 90 % RH (no condensation)
Input Video Signal	0.5-1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Video Format Supported	DTV/HDTV: 1080p/1080i/720p/576p /480p/576i/480i
Output Video	HDMI 1.3+HDCP
Output Audio	Support DTS-HD, Dolby-HD
Maximum Transmission Distance	120 feet
Power Supply	5VDC
Power Consumption	1.5 Watts (Max.)
Dimensions	60mmW×115mmH×23mmD/1.8"W×3 .3"H×0.9"D
Weight (pair)	0.3Kgs (Pairs)/1.16lb
IR wavelength & frequency	Wavelength: 940nm IR Frequency: 38KHZ

 **NOTE**1: Specifications are subject to change without notice. Weight and dimensions are approximate.

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## ■ Panel Descriptions

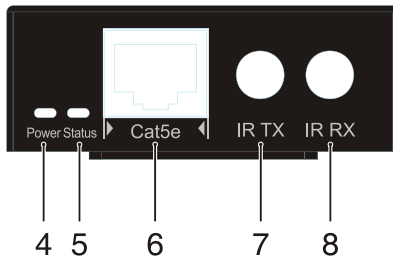
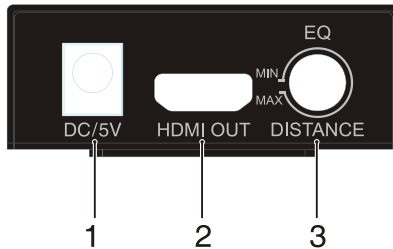
### 1. CT-HDVD-EXT-IR120



- ① Power input, 5VDC.
- ② HDMI input.
- ③ DIP switch.
- ④ Status of power input.
- ⑤ Status of signal connection.
- ⑥ CAT-5E output.
- ⑦ IR TX.
- ⑧ IR RX.

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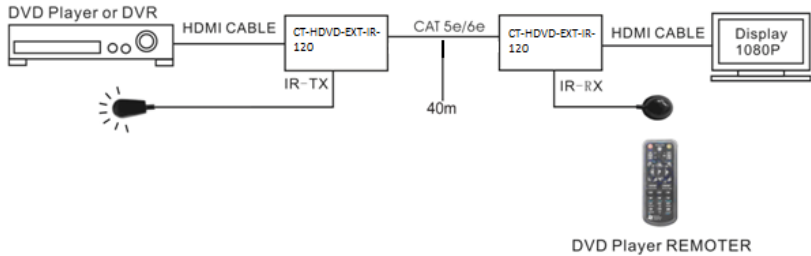
## 2. CT-HDVD-EXT-IR120



- ① Power input, 5VDC.
- ② HDMI output.
- ③ DIP switch equalization and gain.
- ④ Status of power input.
- ⑤ Status of signal connection. CAT-5E input.
- ⑥ CAT-5E Input
- ⑦ IR TX.
- ⑧ IR RX.

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## ■ Typical Application



## ■ Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or other solvents to clean this unit.

## ■ Product Service

- 1) **Damage Requiring service:** The unit should be serviced by qualified service personnel if:
  - The DC power supply cord or AC adaptor has been damaged;
  - Objects or liquids have migrated into the unit;
  - The unit has been exposed to rain;
  - The unit does not operate normally or exhibits a marked change in performance;
  - The unit has been dropped or the cabinet damaged.
- 2) **Servicing Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3) **Replacement parts:** When parts need replacing ensure the service agent uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in

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fire, electric shock, or other hazards.

- 4) **Safety check:** After repairs or service, ask the service agency to perform safety checks to confirm that the unit is in proper working condition.

● **Warranty**

## CABLETRONIX 1-Year Limited Warranty

CABLETRONIX. (The "Company") warrants to the Original Purchaser that the item purchased is free from defects in workmanship or material under normal use. This warranty starts on the date of shipment of the hardware to the Original Purchaser.

During the warranty period, the Company agrees to repair or replace, at its sole option, without charge to Original Purchaser, any defective component. To obtain service, the Original Purchaser must return the item to the Company properly packaged for shipping. All defective products must be returned to the Company within thirty (30) days of failure. Products must be returned with a description of the failure and Return Merchandise Authorization (RMA) number supplied by the Company. To receive a RMA number and a return shipping address on where to deliver the hardware, call 610-429-1821. The shipping and insurance charges incurred in shipping to the Company will be paid by Original Purchaser, and all risk for the hardware shall remain with the Original Purchaser until such time as Company takes receipt of the hardware. Upon receipt, the Company will promptly repair or replace the defective unit and then return said unit to Original Purchaser with shipping prepaid. The Company may use reconditioned or "like-new" parts or units, as its sole option, when repairing any hardware. Repaired products shall carry the same amount of outstanding warranty from the original purchase. Any claim under the warranty must include dated proof of purchase or invoice. In any event, the Company's

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liability for defective hardware is limited to repairing or replacing the hardware.

This warranty is contingent upon proper use of the hardware by Original Purchaser and does not cover: Damage due to Acts of God (including fire, flood, earthquake, storm, hurricane or other natural disaster), accident, unusual physical, electrical, or electromechanical stress, modifications, neglect, misuse, operation with media not approved by the Company, tampering with or altering of the hardware, riot, war, invasion, act of foreign enemies, hostilities (regardless of whether war is declared), civil war, rebellion, revolution, insurrection, military or usurped power or confiscation, terrorist activities, nationalization, government sanction, blockage, embargo, labor dispute, strike, lockout or interruption or failure of electricity, air conditioning, or humidity control, internet, network, or telephone service.

The warranties given herein, together with any implied warranties covering the hardware, including any warranties of merchantability or fitness for a particular purpose, are limited in duration to one year from the date of shipment to the Original Purchaser. Jurisdictions vary with regard to the enforceability of warranty limitations, and you should check the laws of your local jurisdiction to find out whether the above limitation applies to you.

The Company shall not be liable to your for loss of data, loss of profits, lost savings, special, incidental, consequential, indirect, or other similar damages arising from breach of warranty, breach of contract, negligence, or other legal action even if the Company or its agent has been advised of the possibility of such damages, or for any claim brought against your by another party. Jurisdictions vary with regard to the enforceability of provisions excluding or limiting liability for incidental or consequential damages. Check the laws of your local jurisdiction to find out whether the above exclusion applies to you.

This warranty allocates risks of product failure between Original Purchaser and

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the Company. The Company's hardware pricing reflects this allocation of risk and the limitations of liability contained in this warranty. The warranty set forth above is in lieu of all other express warranties, whether oral or written. The agents, employees, distributors, and dealers of the Company are not authorized to make modification to this warranty or additional warranties binding on the Company. Accordingly, additional statements, such as dealer advertising or presentations (whether oral or written) do not constitute warranties by the Company and should not be relied upon.

This warranty gives you specific legal rights. You may also have other rights which vary from one jurisdiction to another.



