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[www.antiference.co.uk](http://www.antiference.co.uk)

# HDMI

HDMI0104SCAT

1 to 4 over single CAT splitter with HDMI loop & IR control

## User Guide



## Important Safety Notice

**Please read these safety instructions carefully before installation and operation:**

1. Please pay attention to all warnings contained in this manual.
2. Do not expose the device to any moisture or liquids.
3. Do not cover the device.
4. Do not attempt to carry out any repair on this product as opening the cover will invalidate the warranty
5. Ensure to install the device in a well ventilated area to prevent overheating.
6. Do not attempt to install the product with mains power connected.
7. Do not 'hot plug' the input and output connections as this can damage the product. Power down when making any changes.
8. Use only the power supply provided with the product.

## Introduction

This Antiference HDMI device splits and extends an HDMI source to 4 points over single CAT6 cables up to 40m away. Also included is an HDMI loop through for a local set or to loop the signal into another part of the system such as an Antiference HDMI modulator.

This splitter supports resolutions up to 1920x1080@60Hz and IR control is also included allowing the user to control the source device from the remote location(s)

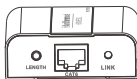
EDID control is also featured offering a completely flexible solution and the receiver units are POE meaning no power is required at the TV point. The main splitter unit provides the power for the entire system.

Compatible with SKY HD & SKY Q (Q only at 1080p) and Blu Ray, Apple TV or CCTV applications etc.

## Package contents



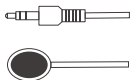
Transmitter unit ×1pcs



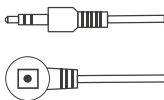
Receiver unit ×4pcs



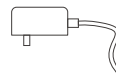
User Manual ×1pcs



IR blaster extension  
cable x1pcs



IR receiver extension  
cable ×4pcs



DC5V/3A ×1pcs

## Features

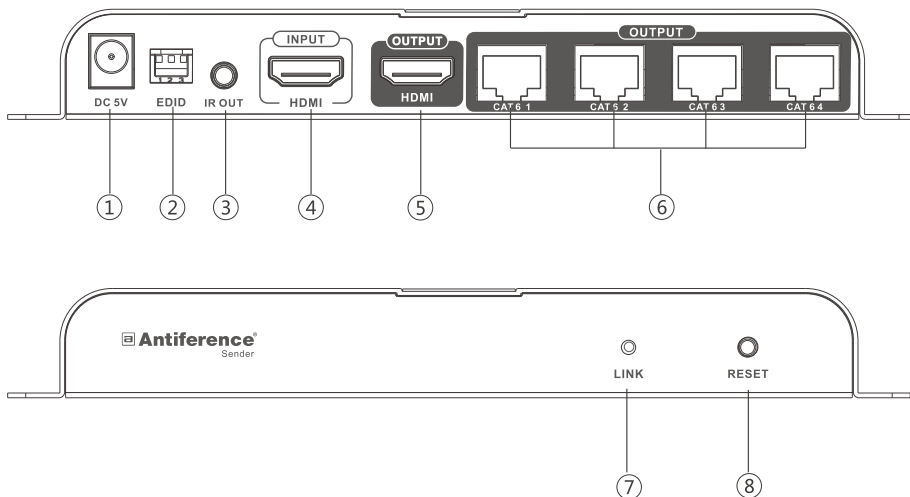
1. Distribute 1 HDMI source to 4 HDMI displays over network cable.
2. HDMI Loop-out.
3. Compatible with CAT6/6a/7 network cables.
4. The transmission distance is up to 40m/131ft.
5. The highest resolution supported is 1920x1080@60Hz.
6. Supports 20~60Hz IR pass back.
7. Supports EDID control function.
8. POE receivers.
9. Simple plug and play technology.
10. Wall or shelf mounting options.

## Installation Requirement

1. HDMI source device (SKY, BD,PS3, Apple TV, CCTV etc)
2. HDMI display device such as HDTV, or projector with HDMI port.
3. UTP/STP CAT6/6A/7 cable, follow standard IEEE-568B.

## Panel description

### 1. Transmitter unit (TX)



1. Power input (DC5V)
2. EDID switch
3. IR signal output to connect with blaster extension cable
4. HDMI input
5. HDMI output
6. RJ45 signal output
7. Power/ signal indicator
8. Reset button

## 2. Receiver unit (RX)



1. LENGTH: automatic cable detection for adjusting to the length of the network cable
2. RJ45 signal input
3. RJ45 indicator led is lit solid when HDMI signal transmission takes place, It will flash when signal is not being transferred.
4. DV5V power input (OPTIONAL)
5. HDMI signal output.
6. IR receiver sensor port.

### Cable Length Optimizer:

The LENGTH button allows the user to switch between automatic and manual settings for the cable length. If the cable run is particularly short then the length feature may be used to optimize the signal for the cable length.

When powered on, the device will use the settings previously made for cable length. To set it up for the first time, follow the procedure below:

Power on and then press LENGTH key twice, this enables the cable length optimizer and the device will now adapt to the cable length.

With the next press of the button it will enter manual length mode and there are 12 steps of this before entering auto mode again.

## Installation Procedures

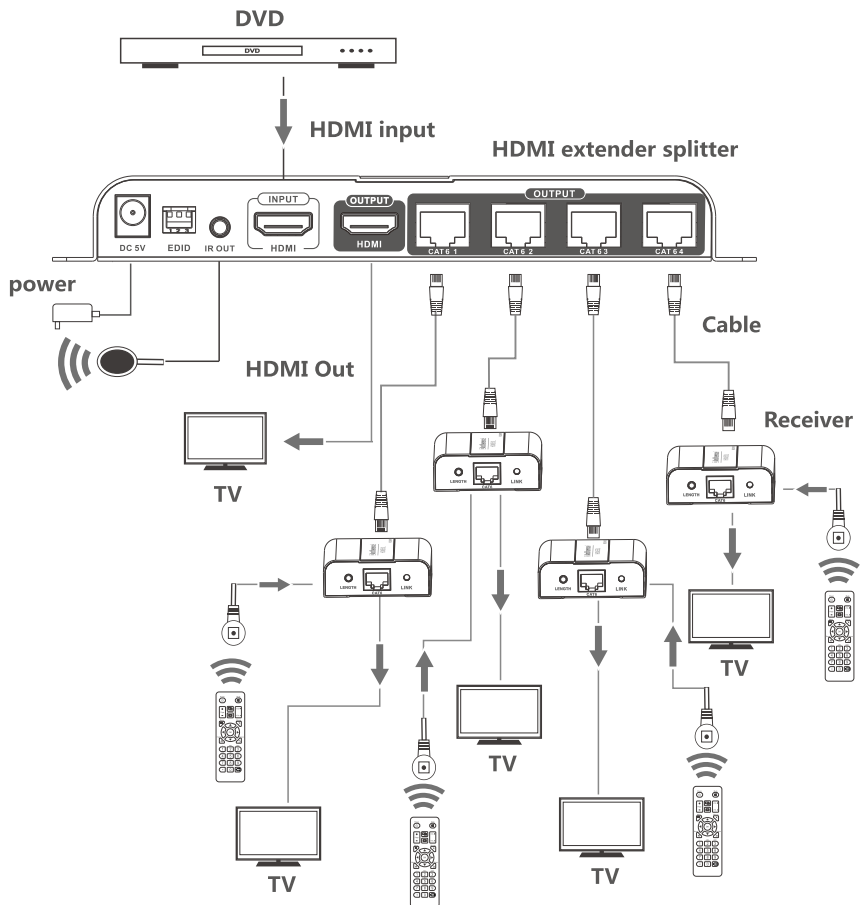
How to make a CAT5/5E/6 network cake

All connections should be terminated to the standard IEEE-568B:

- |                 |           |
|-----------------|-----------|
| 1- Orange/white | 2- Orange |
| 3- Green/white  | 4- Blue   |
| 5- Blue/white   | 6- Green  |
| 7- Brown/white  | 8- Brown  |



## Connection



## Connection instruction:

1. Connect the HDMI signal source device to the HDMI input port on the main splitter unit.
2. Connect the IR blaster to EXTENDER IR OUT and position in front of the source device in the correct location to enable control.
3. Connect the CAT6 output cables to be fed to the remote location(s) to the RJ45 output ports.
4. Connect the CAT6 cable into the RJ45 port on the RX and connect an HDMI cable between the RX and TV set in the remote location.
5. Connect the IR RX sensor to the RX box and position on the front of the TV where the remote control can communicate with it.
6. Insert the power supply to the main splitter unit (Power's signal light is red on start up, when there is signal input then the power light will turn blue).

## EDID Setting

1. The HDMI source device reads the EDID information from the transmitter (TX) and then outputs the relative HDMI signal format.
2. It is possible to save the EDID information from a TV set in the transmitter. To achieve this, you must connect a TV via the HDMI loop-out port on the transmitter (TX), the EDID switch can be set to read and save this TV's EDID information.  
To use this feature, connect the local TV to the transmitter first, and then power on the extender. The EDID of this TV will now be read and saved in the transmitter.  
This EDID info will be saved in the transmitter even if the TV connected to the HDMI loop is removed.
3. To reset the EDID, you must power cycle the transmitter without a TV connected to the HDMI loop out.
4. In addition to the EDID save function via the HDMI loop out port, there are 7 build-in EDID status, The default EDID is 720P60Hz

Details of the EDID settings are in the table below;

SW1	SW2	SW3	EDID Mode
0	0	0	720P@50Hz @CH
1	0	0	720P@50Hz 7.1CH
0	1	0	1080i@60Hz 2CH
1	1	0	1080i@60Hz 7.1CH
0	0	1	1080P@60 2CH
1	0	1	1080P@60Hz 7.1CH
0	1	1	Read Loop-out (if not connect the loop-out show default)
1	1	1	Default 720P@50Hz 2CH

## FAQ

**Q : No image or audio output on display ?**

**A:**

1. Please check if display is in standby mode;
2. Please check the correct HDMI input is selected on the display
3. Please check that the “LINK” LED on RX side remains on. If the LED is flashing, this means RX is not receiving signal from the main splitter unit.
4. Please check whether signal indicator LED on the splitter is blue, Red LED means no input signal is being received.
5. Please check input resolution of the source device. This splitter/extender set does not support 4K/UHD resolutions

**Q : Image unstable ?**

**A:**

1. Press the “LENGTH” or “RESET” button on the splitter to re-identify the signal;
2. Try un-plugging the RJ45 connections and re-insert.

**Q : Only partial ports have output ?**

**A :**

1. Please check the CAT cable or HDMI cable are connected correctly;
2. Press the “LENGTH” or “RESET” button on the transmitter to re-identify the signal;
3. Try un-plugging the RJ45 connections and re-insert.



**Q : IR control is not working**

**A :**

- 1. Are the IR TX & RX sensors in the correct ports?**
- 2. Check the position of the IR TX sensor on the source device. Try alternative positions**
- 3. Check to make sure the RX sensor is not ‘blinded’ by lighting or is obscured by decorations in the remote location.**

## Specification

Items	Specification
HDMI signal	HDMI1.3, Compatible with HDCP1.2
Input	1 x HDMI
Output	4 x RJ45
Support resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
Transmit distance	Full HD resolution 1080p@60Hz up to 40 meters via CAT6 cable
Working temperature	0°C - 60°C
Power Supply	DC5V/3A
Power consumption	<15W
Dimension	TX: 190(L) x 95.9(W) x 23.9(H) mm RX: 71.6 x 66.6 x 22.6mm
Product dimension	195.4(W) x 137.5(D) x 30.8(H)mm *2PCS
Colour	Black

## **Declaration of Conformity**

We, ANTIFERENCE LIMITED herewith declare that the HDMI extender kit complies with all essential requirements and any other applicable conditions set forth on directive 2014/30/EU.

According to the WEEE (Waste Electrical and Electronic Equipment) EU Directive, do not dispose of this product as household waste or commercial waste. Waste Electrical and Electronic Equipment should be appropriately collected and recycled as required by practices established for your country. For information on recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.