HDM312   1 IN 2 OUT HDMI SPLITTER

This is a 4K 3D HDMI splitter and provides HD output streams for 480i/p, 576i/p, 720i/p, 1080i/p and 3840 x 2160 @ 25/30Hz.
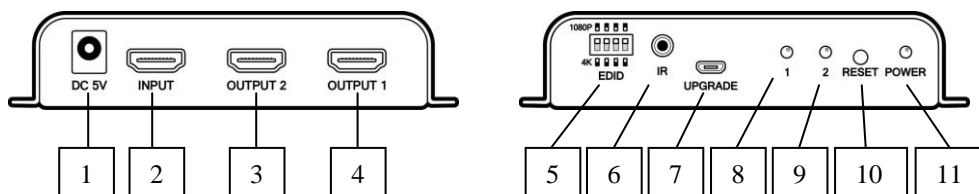
Using dipswitches you can produce 2 x 1080, 2 x 4K, Copy input to 2 outputs or Combination if one output is 4K second output will be 1080p.

Additionally the HDM312 supports an IR extender. This can be used to control a monitor IR remote.

Parts Supplied

HDMI 1 in 2 out Splitter
5vDC Power Supply
IR Adaptor
IR Transmitter
IR Receiver

1. Power 5v DC   2. HDMI Input   5. Dipswitches   6. IR TX
3. HDMI output 2   4. HDMI output 1   7. USB Interface 8. HDMI LED 1
                                       9. HDMI LED 2 10. RESET
                                       11. Power Indicator

Features

This HDMI splitter will distribute two HDMI signals from a source device such as a DVR, DVD player, Satellite Receiver, Set Top Box, DV Camera, A/V Receiver or other HDMI device to HDTVs or HDMI flat panel display monitor.

1.   Fully compliant with HDMI 1.4 specification.
2.   Supports CEC. **Consumer Electronics Control** (**CEC**) is a feature of HDMI designed to allow users to command and control up to 15 devices connected through HDMI by using one CEC remote controller.
3.   Incorporates built in IR extender function.
4.   Blue-Ray DVD 24/50/60fs.
5.   Audio formats DTS-HD / Dolby-true HD/ DTS / Dolby-AC3 / DSD.
6.   Extends transmission distance and improves transmission signal. Using an HDM150 can extend distance further. An HDM150 can be used prior to and after the HDM312. See test results below.

RESOLUTION	INPUT TO		INPUT TO		OUTPUT	TOTAL RUN
1080P	HDM312	15 metres	-	-	15 metres	30 metres
1080P	HDM150	15 metres	HDM312	15 metres	15 metres	45 metres
4K	HDM312	10 metres	-	-	15 metres	25 metres
4K	HDM150	10 metres	HDM312	15 metres	15 metres	40 metres

7.   Supports EDID - Extended Display Identification Data (EDID) is a data structure provided by a digital display to describe its video capabilities to a video source (e.g. PC graphics card , set-top box etc). It enables a modern PC to know what kinds of monitors are connected to it.

Installation

1. Connect an HDMI cable from an HDMI source (e.g MEGA DVR, DVD Player etc.) to the HDM312 Input. The maximum cable run from the HDMI source is 15m for a 1080P signal or 10m for 4K. If the distance of the cable run needs to be longer, you can use an *HDM150 HDMI extender prior to and if necessary following the HDM312. See test results on previous page.

2. Connect an HDMI lead to the Output 1 and 2 on the HDM312 with maximum run of 15 metres and connect the 2 monitors.

3. Set EDID dipswitch settings.   1111 = 1080P   (set if both outputs are 1080P)
                                                     0000 = 4K   (set if both outputs are 4K)
                                                     0011 = EDID Copy   (set if both outputs copy input)
                                                     1100 = EDID Combination (output 1 is 4K, output 2 is 1080P)

4. Connect the 5vDC 2A regulated power supply to the 2.1mm power jack socket.

5. **Using the IR remote facility - optional**
If you want to use the IR remote for example controlling the MEGA DVR, see below:

a) Ensure that the adaptor switch is correctly set to IR or CEC. IR is for controlling a standard IR remote but a CEC IR remote can control multiple devices with the one control. Only one HDMI channel can use the IR remote.

b) Connect the IR Adaptor into the HDMI connection on the monitor.

c)   Connect the HDMI cable from the DVR HDMI output into the IR Adaptor detailed in b).

d)   Connect the IR Receiver mini jack plug into the IR Adaptor and remove the cover from the sticky pad and fix the IR Receiver to the monitor case so that it can be seen by the DVR IR remote controller.

e)   Connect the IR Transmitter mini jack plug to the jack socket on the HDM312 and remove the cover from the sticky pad and fix the IR Receiver to something facing the DVR IR sensor.

f)   Now you can use the DVR IR Remote controller by pointing at the IR Receiver attached to the monitor and you can control the DVR.
＊ HDM150 Extender can be purchased to increase cable run to and from the HDM312 splitter.

Technical Specification for HDM312

HDMI Input	1	HDMI Version	HDMI 1.4	Cable Standard	28AWG HDMI 1.4
HDMI Output	2	Bandwidth	Up to 340 MHz	Power Consumption	1.5 watts max / 120mA
Input Video	0.5 – 1.0 v p~p	Signal Speed	Up to 10.2 Gbps	Power Supply	5v 1 amp
Input DDC Signal	5v p~p (TTL)	Input cable Length	15m 1080P / 10m 4K	Net Weight / Size	110g / 100x48x25mm
HDMI connectors	19 pin HDMI 1A – 'A'	Output cable Length	15m 1080P / 15m 4K	Operating Temperature	0°C ~ 70°C
Single Link Range	3840 x 2160	Input/Output Extender	HDM150 15m x 2	Special Features	IR control / EDID

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