HDM160 HDMI Extender over CAT5E/6

The HDM160 transmitter and receiver can extend an HDMI signal up to 50 metres on CAT5E/6 cable. The units support up to 1080P and have a reverse IR control facility to allow control of a DVR or other device from one area to another. The HDM160 can be wall mounted using lugs on the units and only the TX unit needs powering using the 5vDC plug top transformer supplied.

Installation Instructions

Parts Supplied:

1. HDMI Transmitter 2. HDMI Receiver 3. HDMI TX Power Supply 4. IR Leads

Example for a CCTV system

Transmitter

1- Using a standard HDMI lead, connect the HDMI from the DVR's HDMI output to the HDMI IN on the TX unit. **HDMI cable length up to 10 metres**.

2- If required plug in the IR transmitter leave and position it so it can 'see' the IR control of the DVR. If a local monitor is required next to or near the DVR connect it to the HDMI Out on the TX unit. **HDMI cable length up to 10 metres.**

3- Power up the TX part using the 5V DC PSU supplied, power is not required at the RX end.

4- Next connect the CAT5 or CAT6 using a standard RJ45 network plug. In the other location at the end of the CAT5 or 6 run, connect it again using an RJ45 plug. Maximum run 50 metres.

Receiver

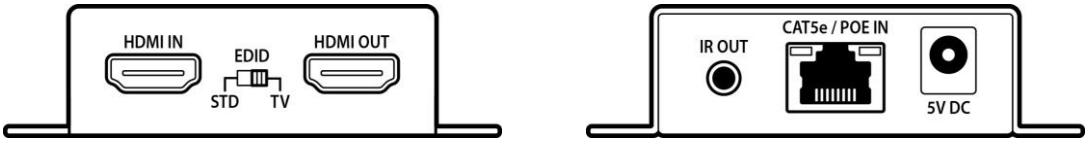
5- Use a standard **HDMI lead up to 10 metres** to connect the RX unit to the desired monitor. If required connect the IR Receiver lead so that it can be controlled using your DVR's remote control.

6- Finally use the <Range> Equaliser dip switch settings to optimise your signal depending on the CAT5 or 6 cable run length.

EQ Set-Up Tips			
Position	Cat Cable Length	Position	Cat Cable Length
 0 1	15m within	 2 3	15-30m
 4 5	30-40m	 6 7	40-50m

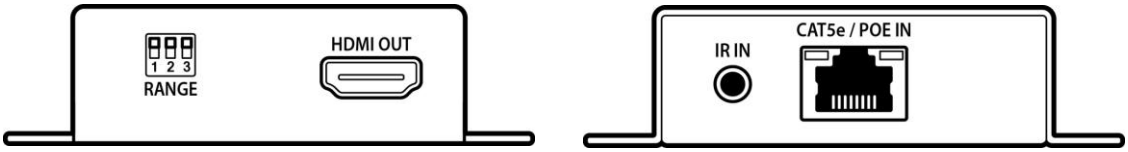
Note the black box denotes the switch.

HDM160 Transmitter



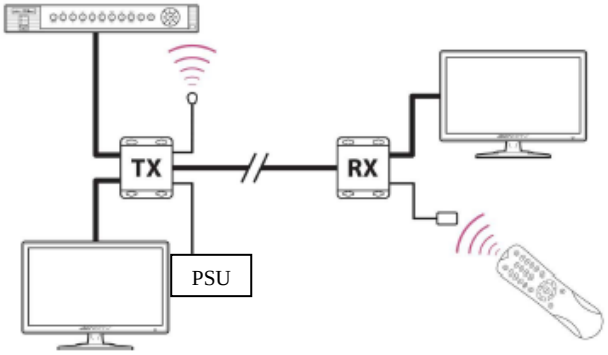
HDMI IN	24/50/60fs/1080p/1080i/720p/576p/576i/480p/480i
EDID	EDID Control Switch : Extended Display Identification Data When switch set to left the input resolution will be copied but when moved to right it will copy the EDID of HDMI Output connected TV. (Normally set to TV)
HDMI OUT	24/50/60fs/1080p/1080i/720p/576p/576i/480p/480i
IR OUT	The IR cable feed that sends IR signals to the DVR IR sensor. Use the IR TX lead and put IR sensor head looking at the front of the DVR
LED	Signal Status LED. When lit cable connection is okay
CAT5E/POE	Connection for CAT5E/6 RJ45 cable. Cable run 50 metres.
LED	Power Status LED. When lit power is okay
5V DC	Connection for 5v DC Power Supply

HDM160 Receiver



EQ (RANGE)	Equaliser Dipswitch. Set dipswitches so they agree with length of CAT5/6 cable run. The settings above show ranges, so try the nearest range setting. Note the switches are in black.
HDMI OUT	24/50/60fs/1080p/1080i/720p/576p/576i/480p/480i
IR IN	The IR cable feed that receives IR signals from the IR Remote Control. Use the IR RX lead and put IR sensor head looking at the Remote Control.
LED	Signal Status LED. When lit cable connection is okay.
CAT5E/POE	Connection for CAT5E/6 RJ45 cable
LED	Power Status LED. When lit power is okay.

Example Diagram



HDM160 Technical Specification

HDMI Input	24/50/60fps/1080p/1080i/720p/576p/576i/480p/480i
HDMI Output	24/50/60fps/1080p/1080i/720p/576p/576i/480p/480i
Power Supply	5v DC Plug top PSU
Power Consumption	600mA
Cable Requirement between units	Maximum of 50 metres of CAT5E/6 – HDMI cables maximum 10 metres
Maximum Bandwidth	165MHz
Maximum Baud Rate	4.95Gbps
Input Video Signal	0.5 ~ 1.5V p~p
Output DDC Signal	5V p~p (TT1L)
Operating temperature Range	0°C ~ +40°C
Storage Temperature Range	-20°C ~ +60°C
Operating Humidity Range	5 ~ 85% RH
Storage Humidity Range	5 ~ 95% RH
Construction	Black Metal boxes
IR Extender	IR RX connects to HDM160 RX and receives IR from remote controller and the IR TX sends IR signal to DVR
EDID	Supports EDID
Weight	400g
Dimensions	82mm x 67mm x 21mm

WEE/CG0783SS

This symbol on the products and/or accompanying documents means that used electronic equipment must not be mixed with general household waste. For treatment, recovery and recycling please return this unit to your trade supplier or local designated collection point as defined by your local council.