

CE labs can support many areas of your audio and video distribution needs.

We manufacture:

- Digital Signage software and Media Players
- HD Matrix Switchers
- RF modulators
- RF amplifiers
- HDMI and Component HD distribution amplifiers
- CAT 5 Signal Extenders
- VGA Extenders and Splitters
- and cables of all types.

See our full product line at www.celabs.net.

WARRANTY

Cable Electronics, Inc. warrants this product to be free from defects in material and workmanship, under normal use and service, for a period of one year from the purchase by the original purchaser. If this product is defective or malfunctions, Cable Electronics will replace or repair this unit (at their option) within a reasonable time. No expressed or implied warranty is made for any defects caused by immersion or exposure to liquids, abuse, neglect, improper operation of unit, excess wear and tear and defects resulting from unauthorized disassembly and or modification.



3209 Wood Drive
Garland, TX 75041
Phone: (469) 429-9200
Toll free: (800) 767-6189
Fax: (469) 429-9205
www.celabs.net

Document: HX40M_Manual.pdf
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INSTRUCTION MANUAL



HX40M HDMI™ & IR CAT5 Extender Series



HDMI™ & IR UTP Extender Series over Single CAT5e/6 cable extends your HDTV display up to 70 meters at 1080i/720p and 40 meters at 1080p. It is equipped with HDMI™ connectors and supports DVI equipment with allowing use of a HDMI to DVI adapter. It provides an easy and flexible cabling solution for integrating home theater components.

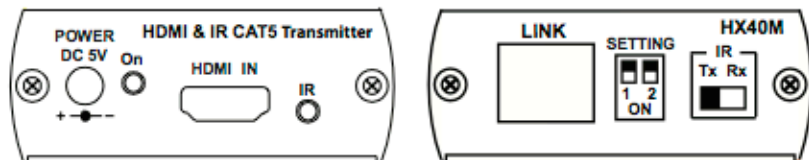
Features:

- Extends HDMI signal over one CAT5e/6 cable
- Transmission range up to 70 meters by 1080i/720p
- Transmission range up to 40 meters by 1080p@60Hz@24bit
- Built in auto equalization for easy plug and play
- Transmitter unit has built in EDID auto backup function
- HDCP compatible

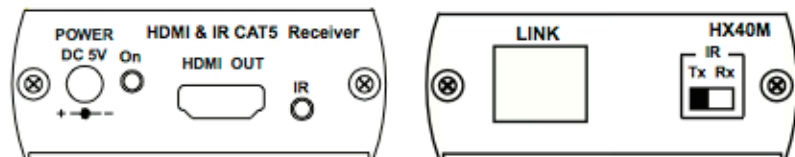


PANEL VIEW & FUNCTION

Transmitter



Receiver



Cable

CE labs recommends using a high-quality CAT5e or CAT6 UTP cable. Distances over 30 meters, it is recommended to use a CAT6 cable. Do NOT use STP cable.

Transmission Distance

The transmission distance will be affected by different HDMI equipment, HDMI jumper cables, patch panels, poorly assembled RJ-45 connectors, and CATx cable quality.

EDID Steup: Default

Set DIP switch 1 off ↓

Set DIP switch 2 off ↑ Select the first default EDID: Support 1080i/LPCM 2 Channel

-OR-

Set DIP switch 2 on ↓ Select the second default EDID: Support 1080p/LPCM 5.1 Channel

Use External EDID

1. Set DIP switch 1 on, unplug the power to Transmitter
2. Connect Transmitter to HDMI connector of TV for auto backup
3. Plug in power for Transmitter, TV EDID back up complete when Blue LED keeps flashing
4. After TV EDID backup, Transmitter power must be reset (unplug and plug) to activate

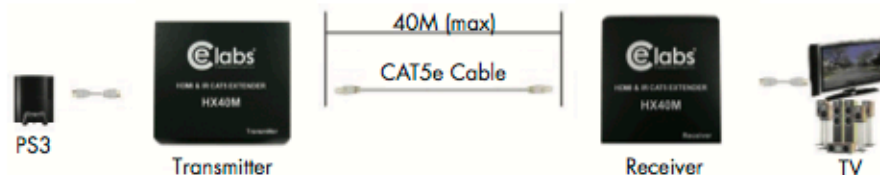
Dip Switch Function

1. Use the default EDID
Use the backup TV EDID
 2. Select the first default EDID: Support 1080i/LPCM 2 Channel
Select the second default EDID: Support 1080p/LPCM 5.1 Channel
- After changing Dip Switch settings, power must be reset (unplug and plug) to activate

RJ45 Define: Video Link (TIA/EIA-568-B)

- | | |
|-----------------|------------------------|
| 1. Orange-White | TMDS DATA2 + |
| 2. Orange | TMDS DATA2 - |
| 3. Green-White | TMDS CLOCK + / HDMI 5V |
| 4. Blue | TMDS DATA1 + |
| 5. Blue-White | TMDS DATA1 - |
| 6. Green | TMDS CLOCK - / HDMI 0V |
| 7. Brown-White | TMDS DATA0 + |
| 8. Brown | TMDS DATA0 - |

INSTALLATION VIEW



SPECIFICATIONS

ITEM	HX40M Transmitter	HX40M Receiver
Resolution	480i/p, 720p, 1080i/p @ 24/50/60Hz	
IR Carrier Frequency	30KHz ~ 60KHz	
IR Emit/Receive Angle	Tx : ± 30° Rx : ± 55°	
IR Emit/Receive Distance	5 meters	
IR Cable Interface	3.5mm Phone Jack x 1	
Video Input /Output	HDMI Type A x 1	
Linking Interface	RJ45 x 1	
Switch	2 Pin Dip x 1 • Slide x 1	Slide x 1
LED	LED Blue x 1 • RJ45 Yellow/Green x 1	
Power Supply	DC 5V 1A	
Power Consumption	420mA	180mA
Temperature	Operation: 0 to 55° – Storage: -20 TO 85° – Humidity: up to 95%	
Dimension (mm)	67 x 102 x 27	67 x 91 x 27
Weight (g)	150	140

LED Indication

BLUE	Power
BLUE Flashing	TV EDID backup completed
GREEN	Sending and Receiving power & HDMI signal
YELLOW	No data input or signal too weak

Caution

1. Keep cables away from any equipment with an electromagnetic wave, e.g., mobile phone, microwave, radio equipment, fluorescent lamp, high voltage power lines...etc.
2. This device is not a network device, do not connect with a network to avoid damages.