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**Contact Us**
Business inquiry: services@avaccess.com
Technical problems: support@avaccess.com
Important Safety Instructions

- Do not expose this device to rain, moisture, dripping or splashing. No objects filled with liquids, such as vases, shall be placed on the device.

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

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

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

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

- Clean this device only with dry cloth.

- Unplug this device during lightning storms or when unused for long periods of time.

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

- Only use attachments / accessories specified by the manufacturer.

- Refer all servicing to qualified service personnel.
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Overview

HDEX40 is a 40m Ultra-slim HDMI extender which offers the extension of full HD video, audio and one-way IR control up to 40m/130ft along a single Cat5e/6a cable.

With a feature set including transmission of uncompressed HD video 1080p@60Hz with 24bit color, 2ch audio and one-way IR control, it offers the added benefit of an incredibly low-profile and ease of installation.

The receiver offers manual EQ settings to fine-tune transmissions by distance for optimal signal delivery to the display.

Threaded bushings on the 12V DC power connections allow use of both standard and locking DC power plugs. LED indicators for power supply to units and signal status to show established connection between connected devices.

- Simple and cost-effective HDMI Extender
- Transmits 1080P/60Hz 2ch up to 40 meters over Cat5e/Cat6a
- HDMI 1.3b and HDCP compliance
- Independent HDMI equalization button to adjust high quality picture
- One-way IR pass through
- Built-in ESD: ±8kV (air-gap discharge) & ±4kV (contact discharge)
- Built-in Surge protection: Voltage ± 1kV
- Compact size for easy installation
Package Contents

Before you start the installation of the product, please check the package contents:

- 1 x Transmitter
- 1 x Receiver
- 2 x Power Supply (DC 12V 0.5A)
- 1 x IR Emitter
- 1 x IR Receiver (30-50KHz)
- 2 x Mounting Brackets with screws (Pair)
- 1 x User manual
Panel

Front Panel

Transmitter/Receiver

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Power LED</td>
<td><strong>On:</strong> The device is powered on. <strong>Off:</strong> The device is powered off.</td>
</tr>
<tr>
<td>2</td>
<td>Status LED</td>
<td><strong>On:</strong> HDMI signal is transmitting successfully. <strong>Blinking/Off:</strong> HDMI signal is not transmitting successfully.</td>
</tr>
</tbody>
</table>

Rear Panel

Transmitter

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DC 12V</td>
<td>DC 12V 0.5A power supply input</td>
</tr>
</tbody>
</table>
### Overview

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>UTP Out</td>
<td>Connects to the receiver</td>
</tr>
<tr>
<td>3</td>
<td>IR Out</td>
<td>Connects to an IR emitter cable. Secure the IR emitter on the IR receiving sensor of source device with adhesive.</td>
</tr>
<tr>
<td>4</td>
<td>HDMI In</td>
<td>Connects to an HDMI source</td>
</tr>
</tbody>
</table>

#### Receiver

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DC 12V</td>
<td>DC 12V 0.5A power supply input</td>
</tr>
<tr>
<td>2</td>
<td>UTP In</td>
<td>Connects to the transmitter</td>
</tr>
<tr>
<td>3</td>
<td>IR In</td>
<td>Connects to an IR receiver cable. Secure the IR receiver with adhesive.</td>
</tr>
</tbody>
</table>

**Note:** The IR receiver enabled angle and distance:

<table>
<thead>
<tr>
<th>Enabled Angel</th>
<th>0°</th>
<th>30°(Horizontal)</th>
<th>15°(Vertical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance</td>
<td>8m(Max)</td>
<td>4.5m(Max)</td>
<td>3m(Max)</td>
</tr>
</tbody>
</table>

| 4   | HDMI Out| Connects to an HDMI sink                                                  |
| 5   | EQ      | Video Quality Equalization. After connection, if the video quality is low, press this button to equalize. |

[www.avaccess.com](http://www.avaccess.com)
Installation Instructions

1. Connect the HDMI source.
2. Use CatX to connect the transmitter and receiver.
3. Connect the HDMI display.
4. Connect IR receiver cable.
5. Connect IR emitter cable.
6. Note: The IR emitter head should be secured over the center of the DVD IR window.
7. Connect the power.

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Trouble Shooting

Five Steps of Regular Troubleshooting Routine

1. **Power:** Please make sure all devices are powered on. (source, extender, display devices)
   
2. **Indicator:** Please make sure LED indicators of transmitter and receiver are normal according to user manual.

3. **Devices:** Please make sure picture can be shown normally when connecting source to display devices directly.

4. **Compatibility:** Please test other source and display devices to determine whether it is a compatibility issue.

5. **Cable:** Plug in and out HDMI/CatX cable or try another HDMI/CatX cable; Cat 5e/6/6a/7 cable is recommended, do not use Cat 5 cable; Please make sure CatX cable is less than 130ft for 1080p resolution; Please make sure the two connectors of one CatX cable are same standard (EIA/TIA 568B).

Typical questions

1. **How to deal with video flash or cut off during the installation?**
   - Indicators should be solid on. If not, please check if the power adapter is well connected.
   - Check the cable refer to above Step 5.
   - Press the EQ button repeatedly, make sure the device match a suitable EQ value.

2. **How to deal with a weak or not working IR signal?**
   - Make sure the IR cables are correctly installed according to the diagram above.
   - Check if the IR emitter head is secured over the center of the device IR
receiver window. The best position may vary depending on the device, please refer to the device user manual. If the signal is weak, please try adjusting the position.

- Pay attention to the control angle and distance as below: The control signal will be better when your controller is pointed at the IR receiver head directly.

<table>
<thead>
<tr>
<th>Enabled Angle</th>
<th>0°</th>
<th>30° (Horizontal)</th>
<th>15° (Vertical)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance</td>
<td>8m (Max)</td>
<td>4.5m (Max)</td>
<td>3m (Max)</td>
</tr>
</tbody>
</table>

3. **How can I make the IR work with third party control devices?**

- Please make sure the third party device follows our pin definition as below:

  ![Diagram](diagram.png)

- You can purchase an AV Access universal IR cable that will be compliant with any third party device. (Amazon ASIN: "B01MYX46IC")
## Specification

### Technical

<table>
<thead>
<tr>
<th>Video Signal Type</th>
<th>HDMI 1.3b</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input/Output Resolution Support VESA:</td>
<td>640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz; 1920x1080@60Hz, 1920x1200@60Hz SMPTE:</td>
</tr>
<tr>
<td>Audio Format</td>
<td>Stereo</td>
</tr>
</tbody>
</table>

### General

<table>
<thead>
<tr>
<th>Operating Temperature</th>
<th>0°C to 45°C (32°F to 113°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temperature</td>
<td>-20°C to 70°C (-4°F to 158°F)</td>
</tr>
<tr>
<td>Humidity</td>
<td>10% to 90%, non-condensing</td>
</tr>
<tr>
<td>ESD Protection</td>
<td>±8kV(Air-gap discharge)/ ±4kV(Contact discharge)</td>
</tr>
<tr>
<td>Surge Protection</td>
<td>Voltage: ±1 kV</td>
</tr>
<tr>
<td>Power Consumption (Maximum)</td>
<td>≤3.7W (Pair)</td>
</tr>
<tr>
<td>Device Dimensions (W x H x D)</td>
<td>126mm × 17mm × 54mm</td>
</tr>
<tr>
<td>Product Weight</td>
<td>Transmitter: 0.16kg  Receiver: 0.16kg</td>
</tr>
</tbody>
</table>
Warranty

Products are backed by a limited 3-year parts and labor warranty. For the following cases AV Access Technology Limited shall charge for the service(s) claimed for the product if the product is still remediable and the warranty card becomes unenforceable or inapplicable.

1. The original serial number (specified by AV Access Technology Limited) labeled on the product has been removed, erased, replaced, defaced or is illegible.
2. The warranty has expired.
3. The defects are caused by the fact that the product is repaired, dismantled or altered by anyone that is not from an AV Access Technology Limited authorized service partner. The defects are caused by the fact that the product is used or handled improperly, roughly or not as instructed in the applicable User Guide.
4. The defects are caused by any force majeure including but not limited to accidents, fire, earthquake, lightning, tsunami and war.
5. The service, configuration and gifts promised by salesman only but not covered by normal contract.
6. AV Access Technology Limited preserves the right for interpretation of these cases above and to make changes to them at any time without notice.

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