

**OCTAVA™ HD over CAT 5/6**

**Model: HDCAT- IR**  
**Installation Guide**

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## **Description:**

**HDCAT-IR** enables transmission of HDMI digital video/audio and I.R. over standard CAT-5/6 Ethernet cables. The **HDCAT-IR** includes a HDMI Transmitter, HDMI Receiver and allows transmission of 1080P HD over 120ft of Ethernet cables (CAT-6 recommended). In addition, Remote Infrared can be extended and sent from viewing area to the equipment room.

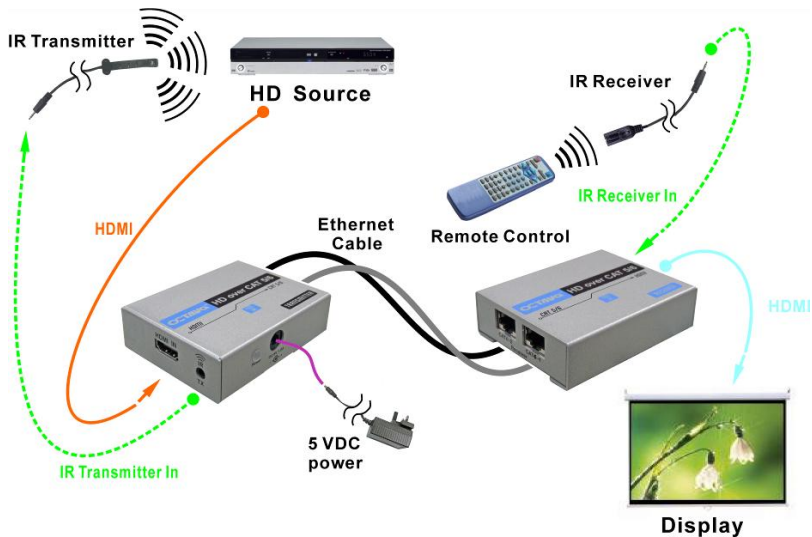
The **HDCAT-IR** provides **Power over Ethernet** cable for simple and compact installations. The Transmitter unit provides power to the Receiver unit. No additional power connection is needed at Receiver unit near HDTV

The **HDCAT-IR** allows installers to use standard **CAT 5/6** cables for ease of installation. Ethernet cables and connectors are easily field terminated thus allowing installers to easily install the proper length cable needed for ultimate flexibility and eliminate logistics problems of having custom length cables.









**Active Drive and Compensation** circuitry ensures error free video transmission for the ultimate HD experience .Typical connection lengths of 120ft (1080p).

## Features:

- HDMI transmission using Ethernet CAT 6 cables
- 120ft ( 1080p) over Ethernet CAT-6 cables
- Wideband IR 20-60 KHz extension
- 3D support
- Power over Ethernet cable for simple and compact installations
- Active Drive and Compensation for Error Free Transmission
- Perfect for Projector or Digital Signage applications



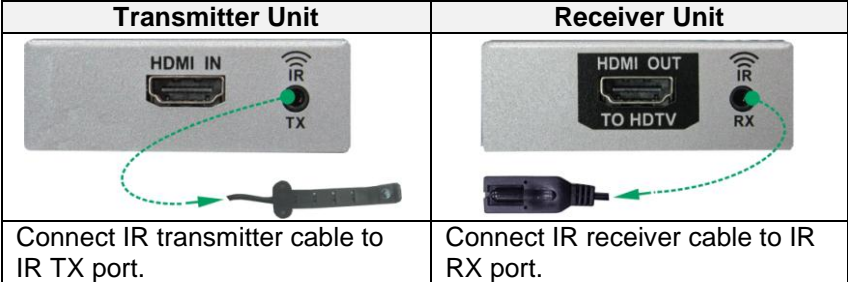
**Application Diagram**

Transmitter Unit	Receiver Unit
	
	
	
 <p data-bbox="143 879 563 927"><b>Connect power supply to the Transmitter unit.</b></p>	 <p data-bbox="589 866 908 938"><b>Power supply NOT required for Receiver unit.</b></p>

<b>Installation</b>	
1	Connect <b>CAT6 -1</b> of the <b>Transmitter and Receiver</b> With CAT5e/6 cable.
2	Connect <b>CAT6 -2</b> of the <b>Transmitter and Receiver</b> With CAT5e/6 cable.
3	<b>IR connection</b> -configure and connect as shown in section: “ <b>IR Configuration</b> ” (see page 6)
5	Connect power supply to the Transmitter unit. (Power supply not required at the Receiver unit.)
6	Connect HD source to HDMI In of Transmitter unit Connect HDTV to HDMI out of Receiver unit


# IR Configuration

The I.R. can be sent from Receiver to Transmitter unit over the CAT 5/6 cables. Simply install the IR cables as shown below.





## Mounting Tabs

The HDCAT-IR includes removable wall mounting tabs. The wall mounting tabs can be removed if not needed

 A close-up photograph of the HDCAT-IR device. The device is a rectangular metal box with a brushed silver finish. Several screws are visible on the top surface. Two wall mounting tabs are attached to the top edge. One tab is fully inserted into a slot, and another is partially inserted. The tabs have a hole for a screw and a small notch.	<p><b>wall mounting tabs installed</b></p>
 A close-up photograph of the HDCAT-IR device, similar to the one above. In this view, the wall mounting tabs have been removed. The slots where the tabs were attached are now empty. The device's top surface and screws are clearly visible.	<p><b>Wall mounting tabs can be removed if not needed.</b></p>

## Powering

The HDCAT-IR provides Power over Ethernet cable for simple and compact installations. The Transmitter provides power to the Receiver unit over the Ethernet cables. No additional power connection is needed at Receiver unit near HDTV

Transmitter	Receiver
 <p>5 VDC power</p>	
connect power supply	no power supply needed.

Description	Specifications
Model	HDCAT-IR
HDMI IN/Out Connectors	19 pin HDMI female type-A
Infrared In/Out	1
Infrared Frequency	20 KHz-60 KHz
Ethernet cables required	2
Ethernet Cable	CAT-6 Recommended for 1080P and best performance
<ul style="list-style-type: none"> <li>• <b>EIA/TIA-568-B</b> termination (<b>T568B</b>) recommended.</li> <li>• Punch-down connection block/panel will degrade performance and not recommended.</li> <li>• Use a single link of CAT-6 cable wherever possible. Using a Keystone connector will reduce link distance</li> </ul>	
Video Data Rate	6.75 Gbps
Video Resolution	480 P, 720 i/P, 1080 i/P
Transmission Length	120ft @ 1080P using CAT-6
Dimension	3.30 x 2.57 x 0.89 inch (83.9 x 65.2 x 22.6 mm)
DC adapter (included)	5VDC, 1 adapter included

For Questions and support:

Email: [info@octavainc.com](mailto:info@octavainc.com)

URL: [www.octavainc.com](http://www.octavainc.com)

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