

USER MANUAL OMX-HDMI-CAT6

HDMI over Single Cat6 Transmission System with Looping Input



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HDMI Extender

The Ocean Matrix OMX-HDMI-CAT6 extends high definition audio/ video transmission beyond the standard distances of HDMI cable and its inherent limitations. Consisting of a transmitter and a receiver, this system delivers a full 1080P HDMI signal up to 164 feet over a single CAT6 network cable.

The transmitter features a built-in looping HDMI output for local display and monitoring. IR signal transmission allows for remote control of the source at a secondary location via included IR extension cables.

Includes

- One transmitter
- One receiver
- Two 5VDC power adapters
- One IR blaster extension cable- 3.28 ft (1m)
- One IR receiver extension cable 3.28 ft (1m)

Specifications	
Supported Resolutions	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
Network Cable	Low resistance and consumption oxygen-free copper core UTP or STP
Transmission Range	1080p resolution up to 164 feet (50m)
IR Remote Control	Supports 20~60KHz standard IR remote controls
Power Supply	5VDC/1A
Power Consumption	Transmitter 3W, Receiver 2W
Working Temperature	32°F - 140°F (0°C- 60°C)
Dimensions (LxWxH)	2.82x2.62x0.97in (71.6x66.6x24.8mm) per unit
Weight	Transmitter 2.93 lb., Receiver 2.84 lb. (83g/80.6g)

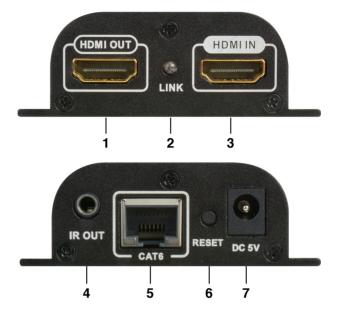
Installation Requirements

- 1. HDMI source device such as a video camera, media player, monitoring equipment or computer.
- 2. HDMI display device such as an SDTV, HDTV, or projector with HDMI port.
- 3. UTP/STP Cat6/6A/7 cable, in accordance with the IEEE-568B wiring standard.

OMX-HDMI-CAT6 Installation Safety

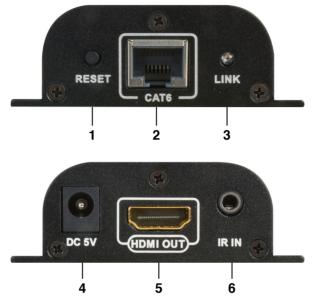
- 1. Identify the receiver and the transmitter in order to make proper connections during installation.
- 2. Do not hot plug/swap when in operation.
- 3. Use 5VDC power supply only.

HDMI to RJ45 Transmitter



- 1 HDMI Signal Output
- 2 HDMI Signal Indicator LED
 - HDMI signal input-on
 - No signal-flashes
- **3 HDMI Signal Input**
- 4 IR Signal Output
 - Connect IR blaster extension cable
- 5 RJ45 Signal Output
- 6 Reset Button
- 7 5VDC Power Input

RJ45 to HDMI Receiver



- 1 Reset Button
- 2 RJ45 Signal Input
- 3 RJ45 Indicator LED
 - HDMI signal transmission-on
 - No signal-flashes
- 4 5VDC Power Input
- 5 HDMI Signal Output
- 6 IR Signal Input
 - Connect IR receiver extension cable

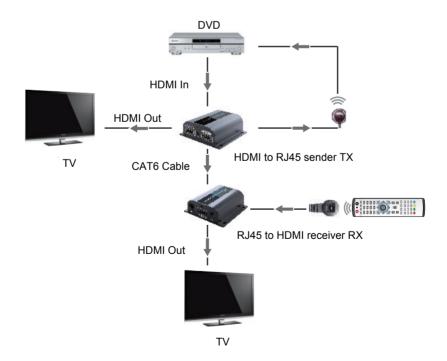
Installation Procedures

Cat6 Network Cable-follow the IEEE-568B wiring standard:

- 1. Orange/White
- 2. Orange
- 3. Green/White
- 4. Blue
- 5. Blue/White
- 6. Green
- 7. Brown/White
- 8. Brown

Connection

- 1. Connect TX HDMI input to source device HDMI output
- 2. Connect TX HDMI output to HDTV HDMI input
- 3. Connect TX CAT6 to RX CAT6
- 4. Connect RX HDMI output to HDTV HDMI input
- 5. Turn the power ON



IR User Guide

- 1. Plug the IR blaster extension cable into the IR-OUT port of the Transmitter TX.
- 2. Plug the the IR receiver extension cable into the IR-IN port of the Receiver RX.
- 3. Place the emitter of the IR blaster as close as possible to the IR receiver of the signal source device.
- 4. Direct the IR remote controller of the signal source device towards the IR receiver (connected to the RX of HDMI extender), to remote control source media playback.

Troubleshooting

No image/audio output or degraded signal

- Press RX RESET button to reset the device.
- Use a shorter network cable.

RX LINK LED is flashing consistently

- Ensure the network cable connection follows IEEE-568B wiring standard.
- Ensure TX has an HDMI signal input.
- Reset TX & RX and reconnect.

RX LINK LED is on but there is no image output

- Press RX RESET button to reset the device.
- Ensure the HDMI cable is correctly connected.
- Ensure you are using a CAT6 network cable.



- To prevent fire or shock hazard, do not expose this equipment to high humidity and/or dust. Do not use in an unprotected outdoor installation nor any area classified as overly damp or wet.
- The temperature for installation should be kept between 32°F to 140°F (0°C to 60°C). Avoid direct sunlight exposure or extreme changes of temperature over a short period of time.
- 3. Do not disassemble the unit or place it on an unstable base.
- 4. Do not drop the unit and avoid heavy impact.
- 5. This unit should not be permanently installed unless proper ventilation is provided. Any enclosure openings must not be blocked or covered as they protect the unit from overheating.
- 6. Before cleaning, turn off the power and unplug the unit from all connections. Use a damp cloth. Do not use liquid cleaners nor aerosol cleaners.
- Do not overload outlets and extension cords as this may result in a risk of fire or electric shock.
- Enclosure entry is dangerous. Never push objects of any kind, including liquids, into this unit through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
- Do not attempt to open or service this unit yourself as opening or removing covers may expose you to dangerous voltage and other hazards.
- There are no user-serviceable parts inside the unit. If the unit requires service contact your authorized dealer, or an authorized repair service company.

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