



USER MANUAL

OMX-HDMI-HDB1X8

8-port HDMI Splitter Extender over Single Cat5/Cat5e/Cat6
using HDBitT Technology with 8 Receivers



Ocean Matrix

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OMX-HDMI-HDB1X8

8-port HDMI Splitter Extender

The Ocean Matrix OMX-HDMI-HDB1X8 Splitter Extender System over Single Cat6 distributes 1 HDMI source to 8 HDMI displays simultaneously. This system extends high definition audio/video transmission beyond the standard distances for HDMI cable limitations via HDbiT technology. The OMX-HDMI-HDB1X8 delivers full 1080P HDMI signal up to 394feet over a single Cat6 network cable. An IR signal transmission allows for remote control of the source at a secondary location with IR extension cables.

Includes

- One Extender Splitter
- Eight Receivers—each receiver includes one IR receiver extension cable and one 5VDC/1A power adapter
- One IR blaster extension cable, connects to transmitter
- 12VDC/3A power adapter

Specifications	
HDMI Signal	Compatible with HDCP
Supported Resolutions	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
Transport Protocol	HDbiT
Transmission Range	Full 1080P HDMI signal up to 394 feet
IR Remote Control	Supports 20-60kHz standard IR remote controls
Power Supply	TX: 12VDC/3A, RX:5VDC/1A
Power Consumption	TX: 24W, RX: 3W
Working Temperature	32°F - 140°F (0°C- 60°C)
Dimensions (LxWxH)	TX: 11.77x4.36x1.17in(299x110.7x29.6mm) RX: 3.81x3.70x0.93in (96.8x94x 23.7mm) per unit
Weight	Transmitter 0.95 lb., Receiver 0.31 lb. (142g /430g)

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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 Cat 5/Cat5e/Cat6 network cable in accordance with the IEEE-568B wiring standard.
4. Transmission length: Cat5-80m, Cat5e-100m, Cat6-120m.

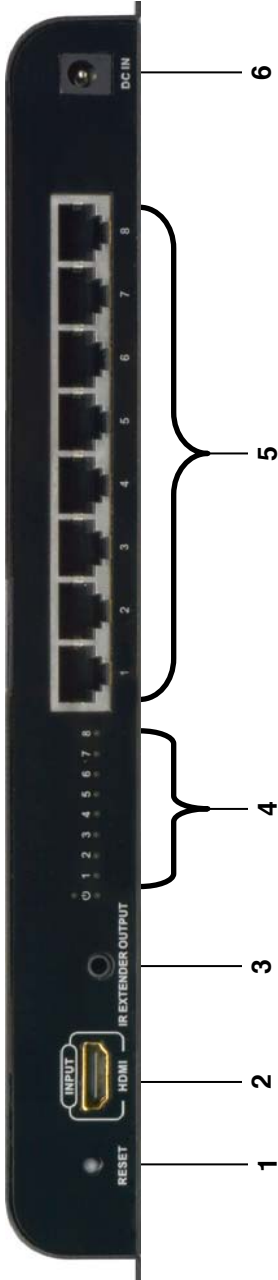
Installation Safety

1. Identify the receiver and the transmitter in order to make proper connections during installation.
2. Do not hot swap (plug/unplug) when in operation.
3. Only use included power supplies to reduce risk of damage or injury.

IR User Guide

1. Plug the IR blaster extension cable into the IR-OUT port of the Transmitter TX.
2. Plug 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 the source media playback.

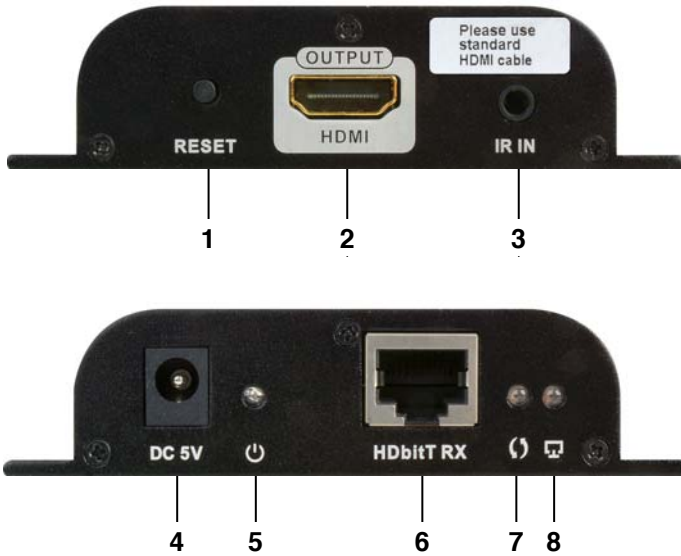
OMX-HDMI-HDB1X8 Transmitter



- 1 Reset Button
- 2 HDMI Signal Input
- 3 IR Extender Output - connect IR blaster extension cable
- 4 Signal Link Status Indicator
- 5 RJ45 Output
- 6 Power Input

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Receiver



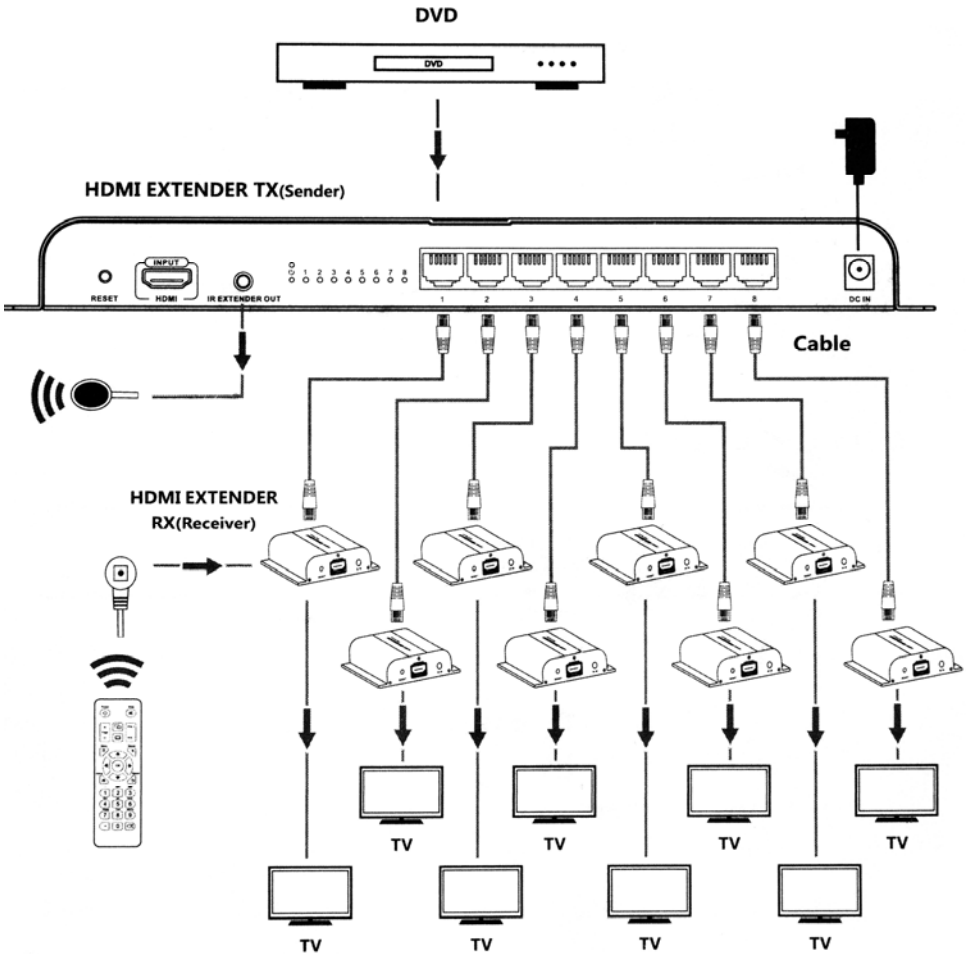
- 1 **Reset Button**
- 2 **HDMI Signal Output**
- 3 **IR Extender Input - connect IR receiver extension cable**
- 4 **5VDC Power Input**
- 5 **Power Status Indicator**
- 6 **HDbiT Network Input**
- 7 **Data Transmission Status Indicator**
- 8 **Network Link Status Indicator**

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Installation

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



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Connection

1. Connect HDMI input with HDMI output of source device
2. Connect IR blaster extension cable to the IR extender out port
3. Connect RJ45 port with RJ45 input port of HDMI extender RX
4. Connect HDMI output of HDMI extender RX to HDMI input of HDTV and set the source input to the correct HDMI input channel

Troubleshooting

Display shows “Waiting for Connection”

- Ensure power supply is firmly connected.

Display indicates there is a signal loss

- Check all connections.
- Connect the signal source directly to the display device to ensure there is a signal output. Change the signal source if necessary.

Degraded video signal

- Check cable lengths between the TX to the switch, the switch to RX.
- Ensure the connection between each level is within required ranges.
- Press the RESET button on the TX/RX front panel, reset and reconnect.



SAFETY PRECAUTIONS



1. 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.
2. 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 or aerosol cleaners.
7. Do not overload outlets and extension cords as this may result in a risk of fire or electric shock.
8. 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.
9. Do not attempt to open or service this unit yourself as opening or removing covers may expose you to dangerous voltage and other hazards.
10. 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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