

OMX-10HMIP0005 Wall Plate Transmitter OMX-11IPHM0004 Wall Plate Receiver/Audio Extractor HDMI Wall Plate H.264 Analog 2.0 PoE Extender Over IP

INSTALLATION & SPECIFICATIONS



OMX-10HMIP0005 Transmitter

Transmitter Kit Includes:

- One Transmitter
- One Wall Plate
- One 5VDC/1A Power Adapter with Mini Phoenix Connector
- One Mini Phoenix Plug
- Four 5/8 Inch Screws
- Two 1/4 Inch Screws
- Set Up and Installation CD



OMX-11IPHM0004 Receiver Audio Extractor

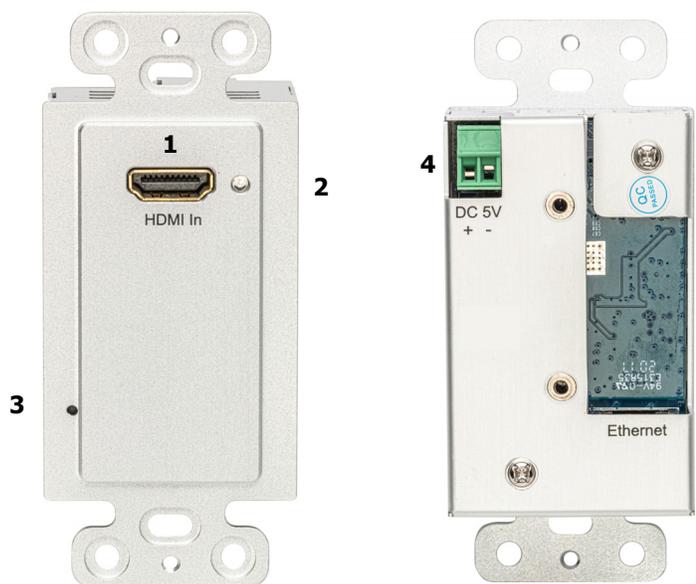
Receiver Kit Includes:

- One Receiver
- One Wall Plate
- One 5VDC/1A Power Adapter with Mini Phoenix Connector
- One Mini Phoenix Plug
- Four 5/8 Inch Screws
- Two 1/4 Inch Screws
- Set Up and Installation CD



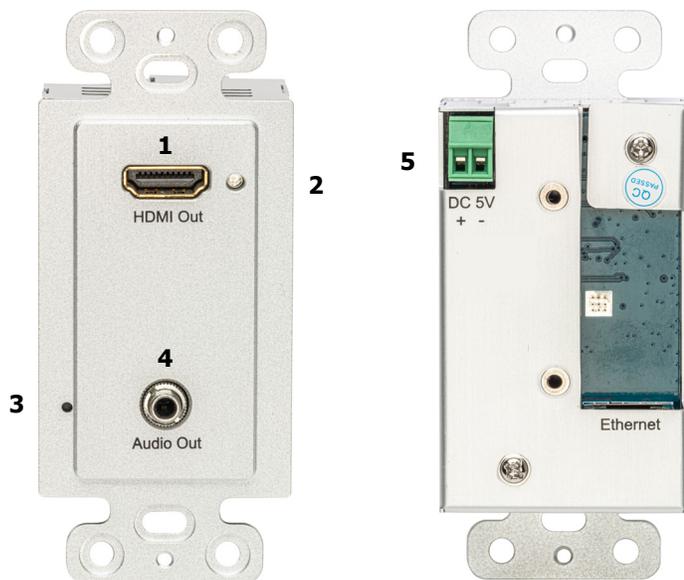
Ocean Matrix OMX-10HMIP0005 & OMX-11IPHM0004 Installation

OMX-10HMIP0005 TRANSMITTER



- 1 HDMI Input
- 2 HDMI LED Indicator Light
- 3 Reset (Insert pin and hold for 10 seconds. When the LED goes out, reset is complete.)
- 4 Power Supply Connection
- 5 Cat 5e/6 Output

OMX-11IPHM0004 RECEIVER



- 1 HDMI Output
- 2 HDMI LED Indicator Light
- 3 Reset (Insert pin and hold for 10 seconds. When the LED goes out, reset is complete.)
- 4 Audio Output
- 5 Power Supply Connection
- 6 Cat 5e/6 Input

SPECIFICATIONS	
Protocol	H.264 Encoder over TCP/IP
Compliance	HDMI, HDCP, PoE 802.3
Audio Format	LPCM, Audio sampling rate 48KHZ
Transmission Distance	394 feet/120m over Cat5e/6
Streaming Bit Rate	15Mbps/1080P
Supports	IGMP, DHCP

SPECIFICATIONS	
Power Consumption	Transmitter 4W Receiver 3W
Wall Plate/Enclosure	Silver / Aluminum
Dimensions Each Unit (LxWxH)	Wall Plate - 4 1/2 x 2 3/4 x 5/64 in Transmitter/Receiver- 4 1/8 x 1 7/8 x 1 1/2 in
Weight Each Unit	4.23 oz

INPUT & VESA RESOLUTIONS

50Hz	576i/576P/720P/1080P/1080i
60Hz/59.94Hz	480i/480p/720p/1080p
30Hz/29.97Hz	1080P
24Hz	1080P
25Hz	1080P

CONFIGURATION—Refer to instructions on the included CD

1. When connecting a point-to-point application there is no need to configure the transmitter nor the receiver.
2. To configure point-to-many, many-to-point, or many-to-many, ensure each transmitter and receiver has a unique IP and MAC address and that each transmitter has a unique group ID number using the **IPTV Control Center Program GUI** on the CD.
3. This extender system has been assigned a unique default MAC address for each transmitter and receiver, so there is no need to set the MAC for each unit. You will need to set the IP address and Group ID.

SETTING THE IP ADDRESS—Refer to instructions on the included CD

1. **DHCP (Dynamic host configuration):** When using a DHCP switch, enable DHCP so that the switch assigns a unique IP for the transmitter and receiver. Don't change the IP for the units manually.

Ethernet:

Use DHCP

Default IP address: 192 . 168 . 1 . 11

Default Netmask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 1 . 1

Submit

Uart Setting:

Baud Rate: 115200

Submit

File to Upgrade Encoder Firmware:

Use DHCP

Default IP address: 192 . 168 . 1 . 12

Default Netmask: 255 . 255 . 255 . 0

Default Gateway: 192 . 168 . 1 . 1

Update DHCP

Multicast Group: Group 01(239.255.42.43) Port: 5004

Update

Uart Baud Rate: 115200

Update

Reboot

2. **Set the IP Via Web Browser:** When using a switch that doesn't support DHCP, change the default IP manually:
 - Transmitter: 192.168.1.11
 - Receiver: 192.168.1.12

INSTALLATION—Refer to instructions on the included CD

1. Use an Ethernet cable to connect the PC and the extender.
 - Ensure that the transmitter and the PC are in the same domain.
 - The IP address of the PC should be different from the IP address of the transmitter and receiver
 - Access the Network Setting Control Panel in Windows to change the IP address to 192.168.1.1
 - Press "OK" to save the configuration.

Continued

CONTINUED INSTALLATION—Refer to instructions on the included CD

2. Login in IE:
 - 192.168.1.11 (TX default IP) or 192.168.1.12(RX default IP)
 - Setup IP address for the TX and RX. TX requires user name: admin and password: admin
 - Setup a unique IP address for each TX and each RX, IP: 192.168.1.XX (XX:1-255)
 - IP addresses for each TX and RX must be different and can't be the same as the PC's address.
3. After selecting "Use DHCP" or reset the IP Address, click "Submit" (transmitter) or "update DHCP" (receiver).
4. Click 'Reboot'
5. Wait 30 to 60 seconds and restart the extender.
6. Setting the Group ID
 - Login in IE: 192.168.1.11 (TX default IP) or 192.168.1.12(RX default IP)
 - Change the Group ID at Stream Setting
 - Click Submit (Transmitter) or Update (Receiver)

Stream Setting:

Transfer: Multicast
 Multicast IP: Port: 5004

Multicast Group: Port: 5004

PREPARING THE SWITCH—Refer to instructions on the included CD

1. A switch is required when connecting point-to-many, many-to-point, or many-to-many.
2. If the switch supports IGMP to manage Group ID and DHCP to assign IP addresses to TX and RX automatically then enable the DHCP switch —see SETTING THE IP ADDRESS on page 3).
3. If the switch does not support DHCP, include a DHCP device such as a router to the network/ethernet setup.

Ocean Matrix OMX-10HMIP0005 & OMX-11PHM0004 Installation

POINT-TO-POINT CONNECTION—Refer to instructions on the included CD

1. Connect cable ONLY when power is OFF.
2. Connect the source and the TX using HDMI cable.
3. Connect the HDMI display the HDMI RX using HDMI cable.
4. Connect the TX and the RX with Cat5e/6 cable.

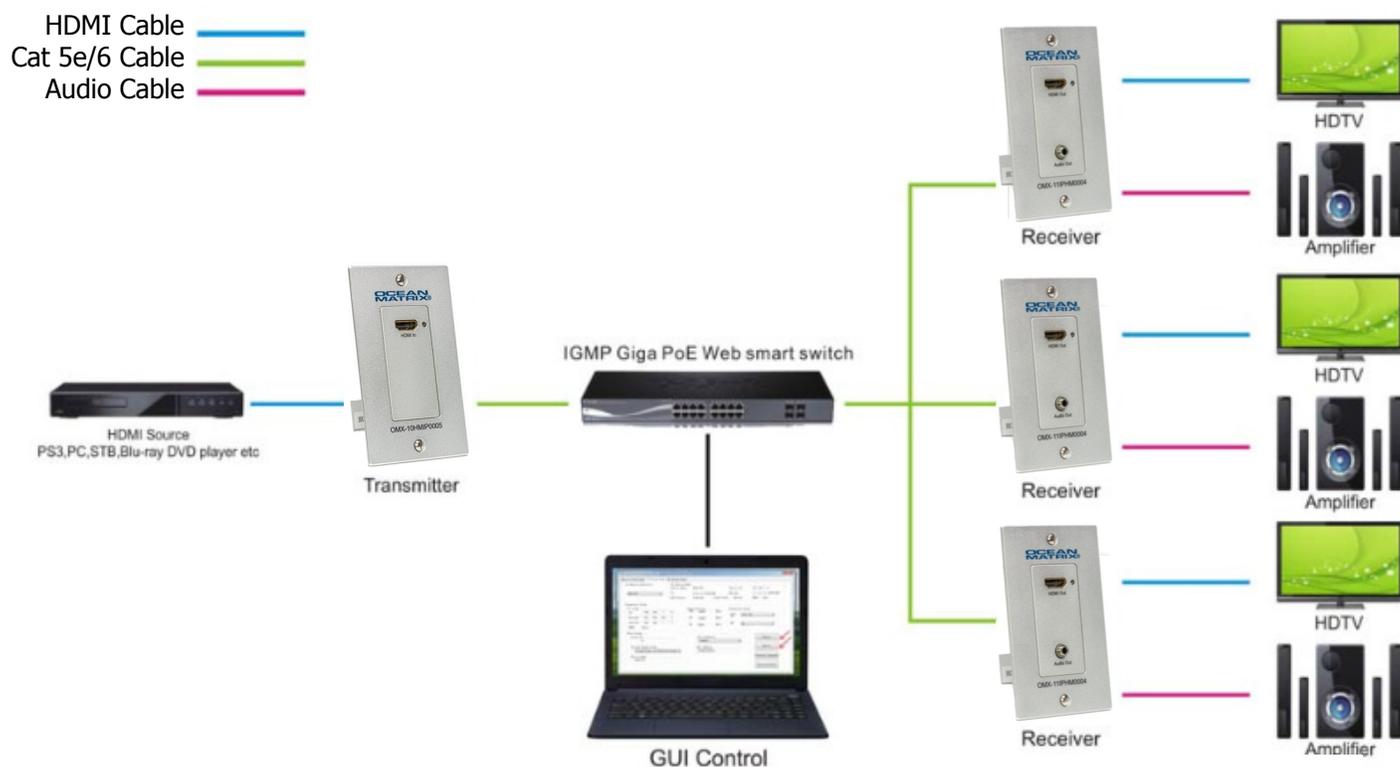
Point to Point Configuration Examples



POINT-TO-MANY CONNECTION—Refer to instructions on the included CD

1. Set the IP addresses for the transmitter and the receiver and prepare the switch as instructed previously.
2. Connect the source device and the TX using HDMI cable.
3. Connect the TX and the switch/router using CAT5e/6 cable.
4. Connect the RXs and the switch/router using CAT5e/6 cable.
5. Connect the HDMI displays and the HDMI RXs using HDMI cable.
6. Notes
 - Daisy chain the switch if more RJ45 ports are needed
 - The total quantity of transmitters and receivers cannot exceed 255

Point to Many Configuration Examples

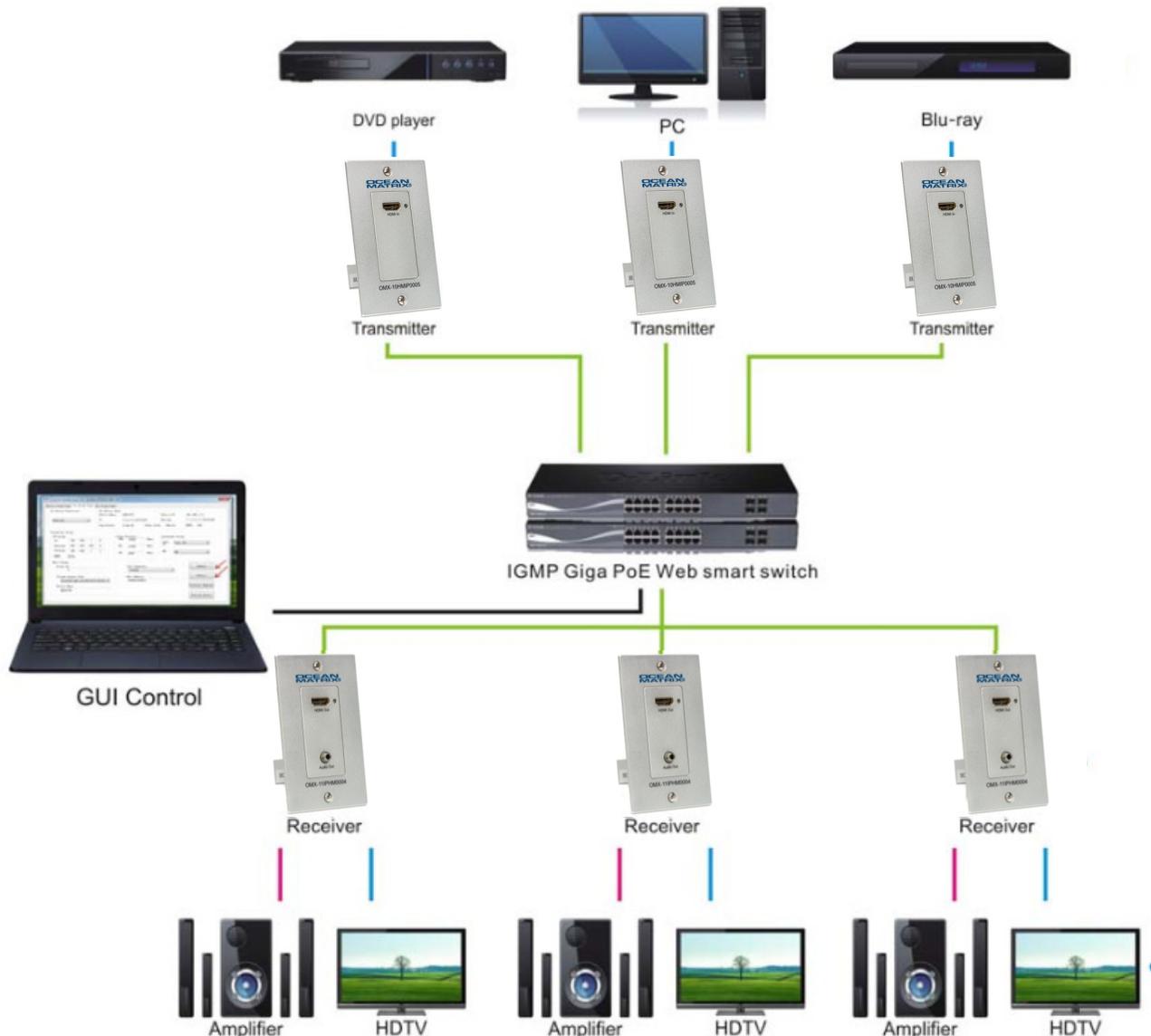


MANY-TO-MANY CONNECTION—Refer to instructions on the included CD

1. Set the IP addresses for the transmitter and the receiver and prepare the switch as instructed previously.
2. Connect the source device and the TX using HDMI cable.
3. Connect the TXs and the switch/router using CAT5e/6 cable.
4. Connect the RXs and the switch/router using CAT5e/6 cable
5. Connect the HDMI displays and the HDMI RXs using HDMI cable.
9. Choose the source Web Browser (see previous instructions)
10. Notes
 - Daisy chain the switch if more RJ45 ports are needed
 - The total quantity of transmitters and receivers cannot exceed 255

Many to Many Configuration Examples

HDMI Cable 
 Cat 5e/6 Cable 
 Audio Cable 



OCEAN MATRIX®

SAFETY PRECAUTIONS

- To prevent fire or shock hazard, do not expose this equipment to dust or high humidity. Do not use in an unprotected outdoor installation or in areas classified as overly damp or wet.
- The installation temperature 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.
- Do not place the unit on an unstable base and avoid heavy impact.
- Proper ventilation is required for permanent installation. Do not block or cover enclosure openings as they protect the unit from overheating.
- Prior to cleaning, turn the power off and unplug the unit from all connections. Use a damp cloth. Do not use liquid or 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, through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
- Do not 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 authorized repair service company.

Federal Communications Commission (FCC) Compliance Notices

Class A Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.