

USER MANUAL OMX-3GSDI-CAT5

3GSDI Extender Over IP Via Single UTP Cat5e/6e/7





OMX-3GSDI-CAT5

3GSDI Extender

The Ocean Matrix OMX-3GSDI-CAT5 extends 3GSDI signal transmission beyond the standard distance for Cat5e/6e/Cat7 cable. Consisting of a transmitter and a receiver, this system delivers full 3GSDI signal up to 394 feet over a single UTP Cat5e/6e/Cat7 network cable supporting SD-SDI, HD-SDI and 3G-SDI signal input and resolutions up to 1920x1080@60Hz.

IR signal transmission allows for remote control of the source at a secondary location using IR extension cables.

Includes

- One transmitter
- One receiver
- Two 5VDC/2A power adapters
- One IR blaster extension cable, connects to transmitter
- One IR receiver extension cable, connects to receiver

Specifications	
Supported Resolutions	SD-SDI 480i@60Hz, 576i@50Hz HD-SDI 720p@50/60Hz,1080i@50/60Hz,1080p@24/25/30Hz 3GSDI 1080p@50/60Hz
SDI Signal Format	SD-SDI, HD-SDI, 3GSDI
SDI Rate	270Mb/s, 1.485Gb/s, 2.97Gb/s
Network Cable	UTP Cat5e/6e/7
Transmission Range	1080p resolution up to 394 ft (120m) over Cat6
IR Remote Control	Supports 20-60kHz standard IR remote controls
Power Supply	5VDC/2A
Power Consumption	Transmitter 6W, Receiver 6W
Working Temperature	32°F - 140°F (0°C-60°C)
Dimensions (LxWxH)	5.4 x 4.1 x 0.9 (138 x 105 x 23.8mm) TX & RX
Weight	Transmitter 6.4 oz Receiver 6.43 oz (182g /180g)

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Installation Requirements

- 1. SDI source device such as a video camera, media player, monitoring equipment or computer.
- SDI display device such as an SDTV, HDTV, or projector with SDI input port.
- 3. UTP/STP Cat5e/6 network cable in accordance with the IEEE-568B wiring standard up to 394 feet/120m.

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.

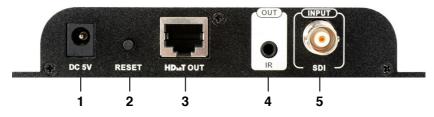
IR User Guide

- Plug the IR blaster extension cable into the IR-out port of the Transmitter TX.
- 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.
- 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.



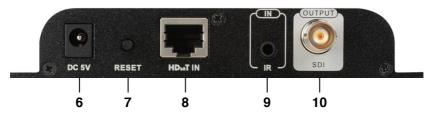
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Transmitter



- 1 TX Power Input 5VDC
- 2 TX Reset Button
- 3 TX Signal Output
- 4 TX IR Blaster Extension Cable Port
- 5 TX SDI Signal Input

Receiver



- 6 RX Power Input 5VDC
- 7 RX Reset Button
- 8 RX Signal Input
- 9 RX IR Extension Cable Port
- 10 RXSDI Signal Output

Rear of Both Units



- 11 TX & RX Power Status Indicator
- 12 TX & RX Data Transmission Indicator
- 13 TX & RX Network Connection Indicator

OMX-3GSDI-CAT5 Installation Procedures

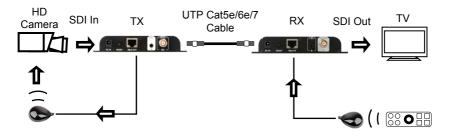
Cat5/6 Network Cable—follow the IEEE-568B wiring standard:

- 1. White/Orange
- 2. Orange
- 3. White/Green
- 4. Blue

- 5. White/Blue
- 6. Green
- 7. White/Brown
- 8. Brown

CONNECTION

Transmission distance up to 394 ft (120m) over single Cat6



Troubleshooting

Display shows "Waiting for Connection"

• Ensure power supply is firmly connected.

Display shows "Signal Loss"

- · Check signal input of the TX.
- 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.
- Ensure all connections are secure.



SAFETY PRECAUTIONS



- 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.
- 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.
- 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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