



COH-TX2 & COH-RX2

4K x 2K HDMI to Optical Transmitter and Receiver



Operation Manual



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SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

| VERSION NO. | DATE DD/MM/YY | SUMMARY OF CHANGE |
|-------------|---------------|---------------------|
| VR01 | 31/07/2013 | Preliminary Release |

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1. INTRODUCTION

Many consumers have been searching for a way to transmit HDMI signals over very long distances. The 4K x 2K HDMI to Optical Transmitter and Receiver set which uses fiber optical cables will give you longer transmission distances (up to 300m) while also providing you with thinner, lighter cables for easier installation. With this system the HDMI signal is not compressed and is fully compliant with HDMI and HDCP.

2. APPLICATIONS

- Digital signage, airport displays, advertising, video walls or special events
- Surveillance systems

3. PACKAGE CONTENTS

- HDMI to Optical Transmitter
- Optical to HDMI Receiver
- 2 x 5V DC Power Adaptors
- Operational Manual

4. SYSTEM REQUIREMENTS

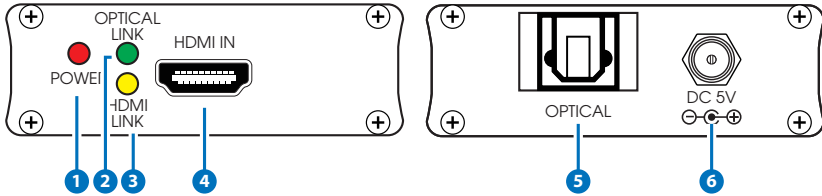
Input source devices such as DVD or Blu-ray players with HDMI cables and output displays such as HDTV's and Monitors with HDMI ports.

5. FEATURES

- HDMI, HDCP and DVI compliance
- Supports 3D, 4K x 2K
- Long transmission distances – up to 300m with OM3 50/125um cable
- Thinner and lighter cables for easier, and less discrete installations
- Faster data transmission
- Lower power consumption
- Supports the reading of EDID information

6. OPERATION CONTROLS AND FUNCTIONS

6.1 Transmitter Front and Rear Panels



1 POWER LED:

When connect the power adaptor to the AC wall outlet, the LED will illuminate.

2 OPTICAL LINK LED:

The LED will illuminate when the optical cable is connected and has successfully detected and communicated data between the Transmitter and Receiver. If the LED is not illuminated then users will need to check the connection of the fiber cable or the cable itself is correct and undamaged.

3 HDMI LINK LED:

This LED will illuminate when the Transmitter unit is receiving a HDMI signal from the source device.

4 HDMI INPUT:

Connect to an HDMI input source such as a DVD or Blu-ray player with a HDMI cable.

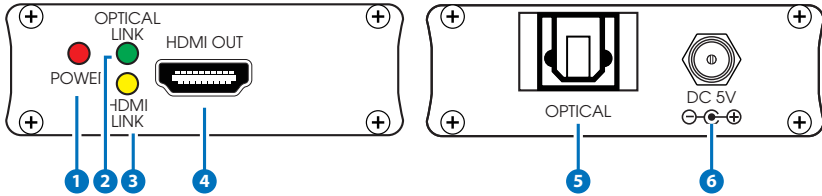
5 OPTICAL:

Connect the SC-SC multi-mode fiber optical cable to the Transmitter and Receiver units.

7 DC 5V:

Connect to the power adaptor included in the package from the AC wall outlet for power supply.

6.2 Receiver Front and Rear Panels



1 POWER LED:

When connect the power adaptor to the AC wall outlet, the LED will illuminate.

2 OPTICAL LINK LED:

The LED will illuminate when the optical cable is connected and has successfully detected and communicated data between the Transmitter and Receiver. If the LED is not illuminated then users will need to check the connection of the fiber cable or the cable itself is correct and undamaged.

3 HDMI LINK LED:

This LED will illuminate when the device is successfully communicating with the display.

4 HDMI OUTPUT:

Connect to a HDMI Display device, such as a TV or monitor, with a HDMI cable.

5 OPTICAL:

Connect the SC-SC multi-mode fiber optical cable to the Transmitter and Receiver units.

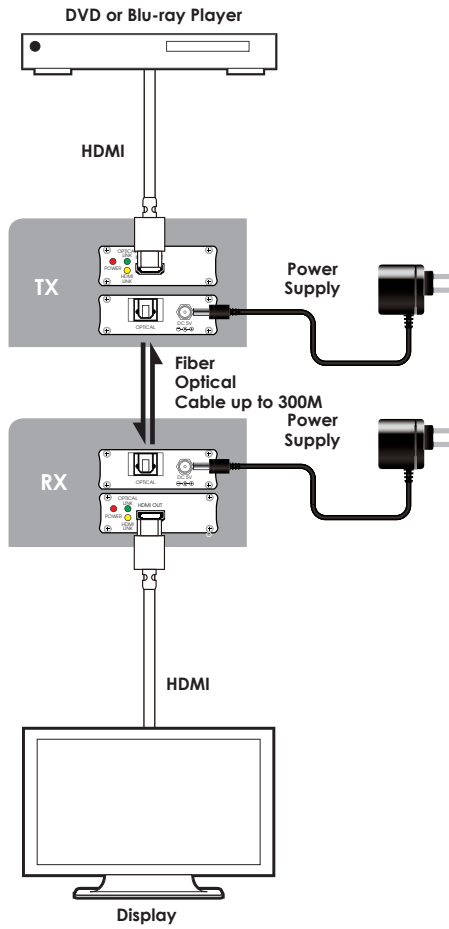
6 DC 5V:

Connect to the power adaptor included in the package from the AC wall outlet for power supply.

7. SPECIFICATIONS

| | |
|--------------------------------------|---|
| Video Bandwidth | 340MHz/10.2Gbps |
| Optical Fiber | OM3 50/125um, SC-SC connector |
| Transmitter | |
| Input Port | 1 x HDMI |
| Output Port | 1 x Multi-mode Fiber Optical |
| Receiver | |
| Input Port | 1 x Multi-mode Fiber Optical |
| Output port | 1 x HDMI |
| Resolution Supports | VGA ~ WUXGA, 3D & 4K x 2K@24/25/30 |
| Optical In/Out Cable Distance | Up to 10/10 Meters with 8-bit Up to 6/6 Meters with 12-bit |
| Optical In/Out Cable Distance | Up to 300 Meters with OM3 50/125um cable |
| Power Supply | 5V/2.6A DC (US/EU standards, CE/FCC/UL certified) |
| ESD Protection | Human Body Model: ±8kV (air-gap discharge) ±4kV (contact discharge) |
| Dimensions | 65.5mm(W) x 125.5mm(D) x 21.6mm(H)/ Each |
| Weight | 200g/Each |
| Chassis Material | Aluminum |
| Silkscreen Color | Black |
| Operating Temperature | Operating from 0°C ~ 40°C |
| Storage Temperature | -20°C ~ 60°C / -4 °F ~ 140 °F |
| Relative Humidity | 20 ~ 90% RH (non-condensing) |
| Power Consumption | 1.5W (TX), 1.3W (RX) |

8. CONNECTION AND INSTALLATION



9. ACRONYMS

| ACRONYM | COMPLETE TERM |
|---------|---|
| HDCP | High-bandwidth Digital Content Protection |
| HDMI | High-Definition multimedia Interface |



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