

CWHDI-TX & RX Wireless HDMI Transmitter and Receiver Box

Operation Manual



TABLE OF CONTENTS

1. Introduction	1
2. Features	1
3. Package Contents	1
4. Operation Controls and Functions	2
4.1 Transmitter side.....	2
4.1.1 Front Panel.....	2
4.1.2 Rear Panel.....	3
4.2 Receiver side.....	3
4.2.1 Front Panel.....	3
4.2.2 Rear Panel.....	4
5. Remote Control	4
6. Connection and Installation	5
7. Specifications	6
8. Troubleshooting	7

1. Introduction

This wireless HDMI transmitter and receiver box uses baseband technology with a Wireless High Definition Interface (WHDI) to deliver uncompressed HD video and audio up to 15~30 meters away, while maintaining superb, wired-equivalent quality and reliability without any lag. Both the transmitter and receiver are available with embedded antennas.

2. Features

- Wireless transmission of uncompressed HD audio/video at wired-equivalent quality.
- Supported video resolutions include 480i/p, 576i/p, 720p, 1080i VGA@60/72, SVGA@60/72, XGA@60/70 and 1080p(24fps/30fps).
- 15~30 meter operating distance, no line of sight required.
- Real time link, with a lag time under 1 millisecond.
- Strong 256-bit AEC based encryption for security.
- Video Data Rates 1.5Gbps.
- 5GHz licensed band, MIMO RF.
- CEC functionality supported.
- Fully HDCP Compliant.
- Unicast and Multicast change.
- Auto shut down when one of the devices is turned off.
- Instant signal transmission with a timing change less than 10 seconds.
- Control Channel allows two-way communications at 10Kbps.

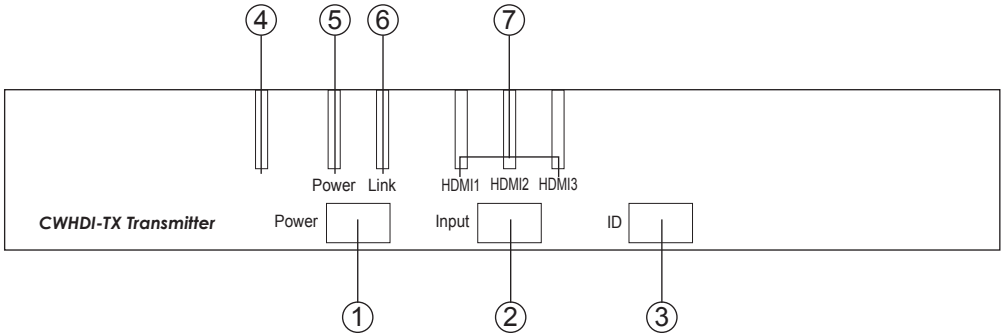
3. Package Contents

- Wireless HDMI Transmitter box.
- Wireless HDMI Receiver box.
- 2 x 5V/2.6A DC power supply adaptors.
- Operation Manual.
- CR-67 Transmitter Remote
- CR-68 Receiver Remote
- Holders x 2

4. Operation Controls and Functions

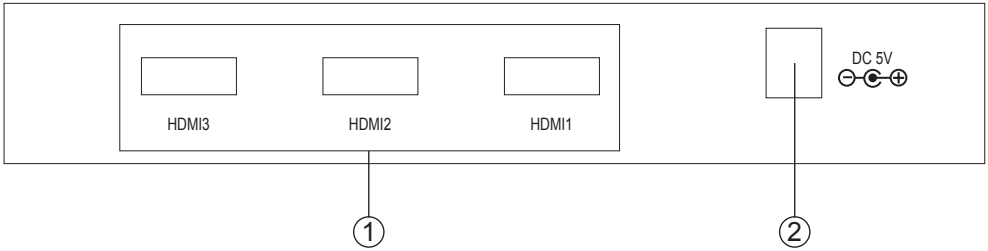
4.1 Transmitter side

4.1.1 Front Panel



- ① Power: Press to turn the system on/off.
- ② Input: Press to select input source (1/2/3).
- ③ ID: Press the Transmitter and Receivers "ID" button for 2 seconds to connect the systems. These systems were already connected before leaving the factory, so you do not need to reset them again unless the system cannot link up properly. Press the ID button for more than 10 seconds to switch to a different mode (Broadcast/Unicast). When the green LED is lit it means the system is under Unicast mode and when the red LED is on, it means the systems has been switched to Broadcast mode. The factory default is Unicast mode and it is suggested to use this for household use. It is not necessary to press both the Transmitter and Receiver's ID button at the same time. Note: Due to the nature of the transmission, Broadcast mode has no uplink so bi-directional communication between Transmitter and Receiver is not possible. This results in the following limitations:
 - HDCP protected content should not be transmitted.
 - CEC and EDID repeater functions are not supported.
 - Broadcast mode is not HDCP compliant.
- ④ IR sensor.
- ⑤ Power: The LED will turn on when power is on.
- ⑥ Link: When under search mode the LED will flash repeatedly and during the signal linking stage the LED will slowly flash. When the LED has been switched on and no longer flashes it means the signal has been properly linked.
- ⑦ Input indicator: The LED will turn on to indicate which input source is being sent to the HDMI display.

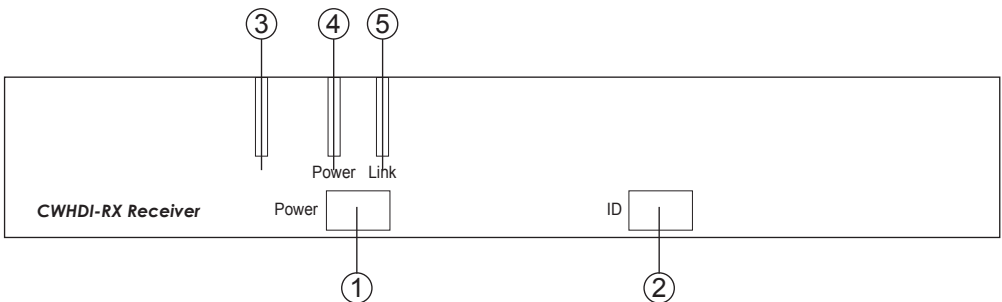
4.1.2 Rear Panel



- ① HDMI 1/2/3 Inputs: Connect each of the input ports to the HDMI output of your source equipment such as DVD/Blu Ray players or set-top-boxes.
- ② Power: Plug the 5V DC power supply into this unit and connect the adaptor to an AC outlet.

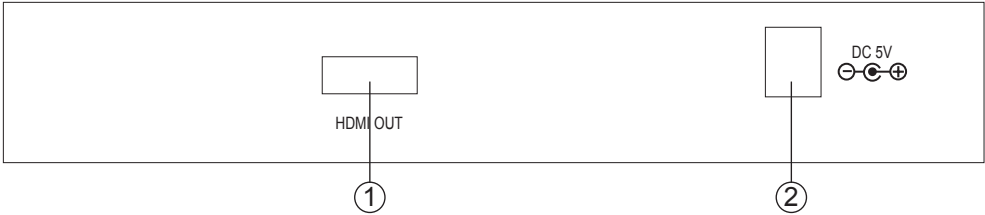
4.2 Receiver side

4.2.1 Front Panel



- ① Power: Press to turn the system on/off.
- ② ID: Press the Transmitter and Receivers "ID" button for 2 seconds to connect the systems. These systems were already connected before leaving the factory, so you do not need to reset them again unless the system cannot link up properly. Press the ID button for more than 10 seconds to switch to a different mode (Broadcast/Unicast). When the green LED is lit it means the system is under Unicast mode and when the red LED is on, it means the systems has been switched to Broadcast mode. The factory default is Unicast mode and it is suggested to use this for household use. It is not necessary to press both the Transmitter and Receiver's ID button at the same time. Note: Due to the nature of the transmission, Broadcast mode has no uplink so bi-directional communication between Transmitter and Receiver is not possible. This results in the following limitations:
- ③ IR sensor.
- ④ Power: The LED will illuminate when power ON.
- ⑤ Link: When under search mode the LED will flash repeatedly and during the signal linking stage the LED will slowly flash. When the LED has been switched on and no longer flashes it means the signal has been properly linked.

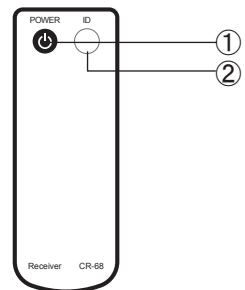
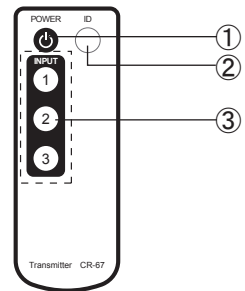
4.2.2 Rear Panel



- ① HDMI output: Connect the HDMI output to the HDMI input of your display using an HDMI cable.
- ② Power: Plug the 5V DC power supply into this unit and connect the adaptor to an AC outlet.

5. Remote Control

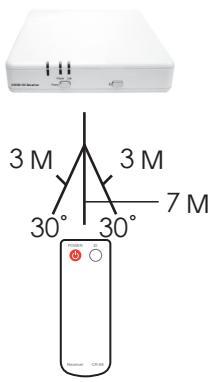
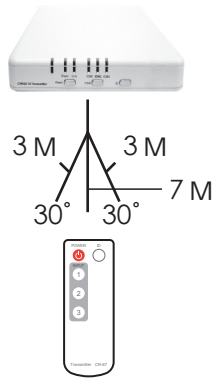
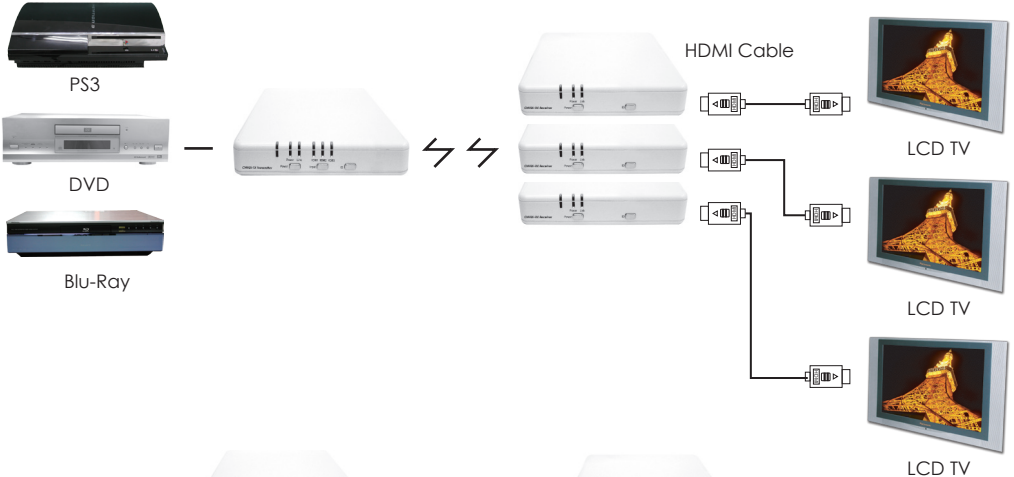
- ①. Power: Press to turn the device on/off.
- ②. ID: Press the transmitters and receivers "ID" button for two seconds to connect the system. These systems were already connected before leaving the factory so you do not need to reset them again unless the system cannot link up properly.
- ③. 1~3: Input source selection of 1~3, press to have your desired source displayed on the HDMI display.



6. Connection and Installation



Or



7. Specifications

Radio Power	Transmit power is configurable up to 63mW (+18dBm)
Video resolutions (partial list)	480i/p, 576i/p, 720p, 1080i, VGA@60/72, SVGA@60/72, XGA@60/70 and 1080p(24fps/30fps)
Frequencies Supported	4.9 ~ 5.9GHz
Modulation	OFDM MIMO with WHDITH video-modem Technology
Bandwidth	20MHz
Wireless Range	15~30 meters open field
Antenna	Transmitter: 4 transmit antennas and 1 receive antenna Receiver: 5 receiver antenna and 1 transmit antenna
System Features	Automatic Transmission Power Control (ATPC)-for best power performance Automatic Frequency Selection (AFS)-For avoiding interferences
Digital Video Interface	Up to 24 bit RGB or YCbCr (4:4:4)
Digital Audio Interface	PCM2CH, DTS5.1, AC3 5.1
System Latency	Less than 1 millisecond delay between video/audio source and sink
Security	Strong 256 bit AES-based encryption
Input ports	3 x HDMI
Output port	1 x HDMI
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	162.6(W) x 164.5(D) x 33.5(H)
Weight(g)	Transmitter: 348 Receiver: 316
Chassis Material	Plastic
Silkscreen Color	White
Operating Temperature	0°C ~ 40°C
Power Consumption	Transmitter: 9.8 Receiver: 8.1

8. Troubleshooting

Situation	Check Point
Power LED is not illuminate when power ON.	<ol style="list-style-type: none"> 1. Check if the right adaptor is used. 5V 2.6A's adaptor. 2. Check all power connectors are plugged in correctly. 3. Push the power buttons to turn on the devices.
After powering on Tx & Rx the Link's LED is flashing speedily / slowly without image.	<ol style="list-style-type: none"> 1. This is normal if the devices are pairing or learning, the LED will illuminate slowly when it is doing signal linking. After signal is transmit and received steadily the LED will be light up consistently. 2. If the LED keeps on flashing speedily for more than 3 minute, then repairing devices by pushing the ID keys for 2 second. 3. If the LED keeps on flashing slowly for more than 3 minute, then check the input selection of the transmitter if its correct.
The Link's LED is illuminating consistently without image display or unexpected image display.	<ol style="list-style-type: none"> 1. Check if source's timing is supported by the device. The device support up to 1080i and therefore, please make sure the source is sending acceptable timing for device and display and the display also can accept that timing. 2. Check if both source and the display are HDCP/CEC complaint. 3. Check if TV mode is selected rightly. 4. Check if both source and display are connected stably.
Input's LED not illuminate.	<ol style="list-style-type: none"> 1. For the first time linkage, if the output display is not link up the input LED will not illuminate therefore, please check if the HDMI output is connected.
Different color on Power LED.	<ol style="list-style-type: none"> 1. Red Power LED means under Broadcast mode and Green Power LED means under Unicast mode. If Tx is on Green LED but Rx is on Red LED, press Rx's ID key for 10 second to change to Unicast mode. Vice versa, when Broadcast mode is demanded press Tx's ID key for 10 second to change to Broadcast mode.



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