

# User Manual

**WOXCON**

**WL-HD-02**

**HDMI 1.4 Wireless Transmission System**



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Version: WL-HD-02\_2020V1.0

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## Product Introduction

The WL-HD-02 is the powerful but low-cost HDMI 1.4 wireless transmission system product. It contains one transmitter and one receiver. The receiver is equipped with 802.11ac dual-antenna and Gigabit Ethernet to bring the great connection and smooth streaming. The system uses wireless high-definition wireless technology to transmit audio and video signals wirelessly through 5G frequency without uncompressed. The transmitted video resolution is up to 1080p@60Hz and the transmission distance is up to 30 meters. The product connection is simple and easy to understand, and the transmission signal is stable. It is the best choice for wireless audio and video transmission in the office and home audio-visual systems.

## Features

- One-key pairing without any settings. The paired devices do not need to be paired again, they can be automatically connected after power on (the pairing is already done at the factory).
- Supports HDMI 1.4 and HDCP 1.4.
- Input video is up to 1080p@60Hz, and output video is up to 4K@30Hz.
- Wireless transmission and the transmission distance is up to 30 meters.
- Supports 3D video transmission.
- High speed 802.11ac Wi-Fi module, up to 866Mbps (5Ghz).
- Supports PNP.
- User-defined main screen.

## Packing List

- 1x WL-HD-02 Transmitter with external antennas
- 1x WL-HD-02 Receiver with external antennas
- 2x HDMI Cable (1 meter)
- 2x Power Adapter (5V DC)
- 1x User Manual

**Note:** Please contact your distributor immediately if any damage or defect in the components is found.

## Technical Specification

### Transmitter

CPU	1Ghz RISC CPU
Technical Standard	WirelessHD1.1
Input Resolution	Up to 1920x1080@60Hz
I/O	<ul style="list-style-type: none"><li>• HDMI In</li><li>• USB type A male</li></ul>
WLAN Standard	IEEE 802.11a/n/ac, Wi-Fi compliant
Wi-Fi	802.11ac 1T1R, max. bandwidth 433Mbps (5Ghz)
Wi-Fi Frequency	5Ghz: 5.150Ghz~5.825Ghz
Power	DC 5V, 1A
HDCP	HDCP 1.4
LED Indication	Power
Power Consumption	Standby: 2W approx.; Casting: 4.5W approx.
Working Temp.	0 to +40°C (+32° to +104°F)
Storage Temp.	-20 to +70°C (-4° to +158°F)
Relative Humidity	10% to 90%, Non-condensing
Dimension (W*H*D)	65mm x 16mm x 65mm
Net Weight	45g

## Receiver

CPU	1Ghz RISC CPU
Technical Standard	WirelessHD1.1
Output Resolution	Up to 4K@30Hz
I/O	<ul style="list-style-type: none"><li>• HDMI out (HDMI1.4)</li><li>• USB type A (USB 2.0 for Pairing)</li><li>• DC 5V</li></ul>
WLAN Standard	IEEE 802.11ac 2x2, Wi-Fi compliant
Wi-Fi	802.11ac 2T2R, max. bandwidth 866Mbps (5Ghz)
Wi-Fi Frequency	5Ghz: 5.150Ghz~5.825Ghz
Power	DC 5V, 2A
HDCP	HDCP 1.4
LED Indication	Power, HDMI, Wi-Fi status, USB
Key	Reset button
Power Consumption	Standby: 5W approx.; Casting: 7.5W approx.
Working Temp.	0 to +40°C (+32° to +104°F)
Storage Temp.	-20 to +70°C (-4° to +158°F)
Relative Humidity	10% to 90%, Non-condensing
Dimension (W*H*D)	120mm x 25mm x 80mm
Net Weight	110g

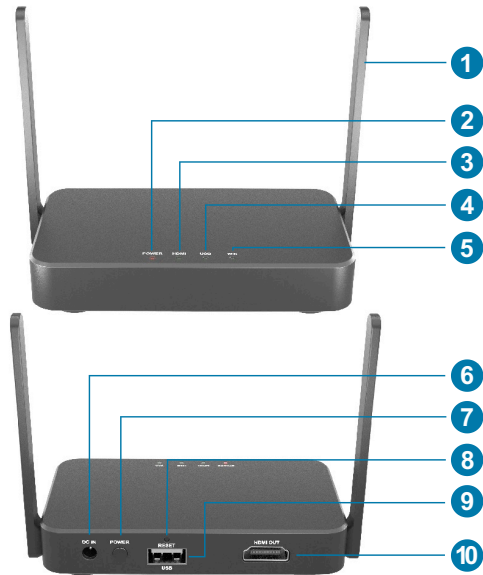
# Panel Description

## Transmitter



- 1. Antenna
- 2. HDMI IN: Connects to source device.
- 3. Micro USB: Uses for product pairing and power supply.

## Receiver



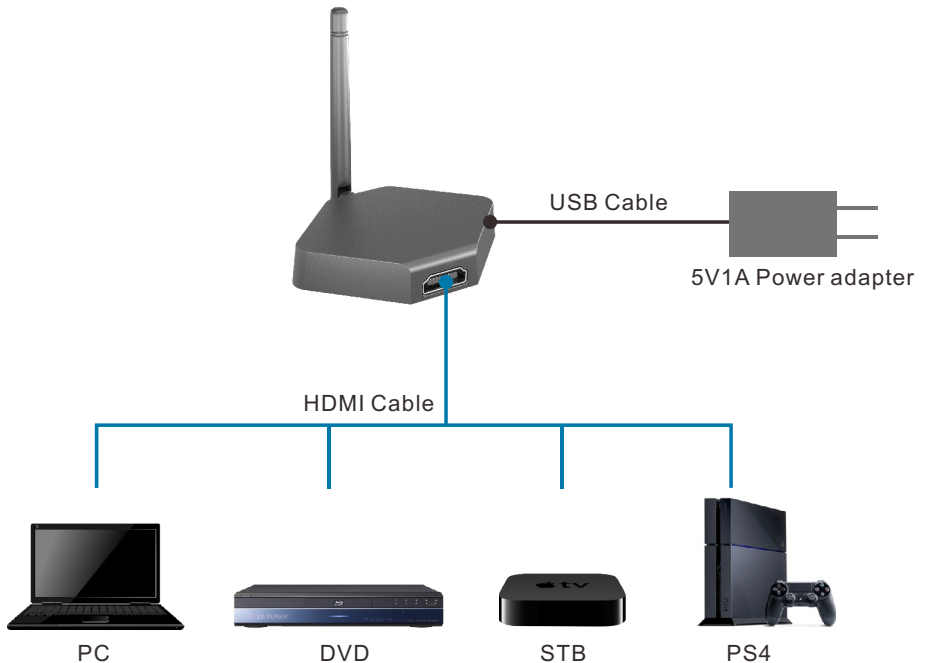
- 1. Antenna
- 2. POWER LED
- 3. HDMI LED
- 4. USB LED
- 5. Wi-Fi LED
- 6. DC IN: Connects to power adapter.
- 7. POWER: Power on the device.
- 8. RESET: Reboot the device.
- 9. Type-A USB: Uses for product pairing.
- 10. HDMI OUT: Connects to display device.

# System Installation

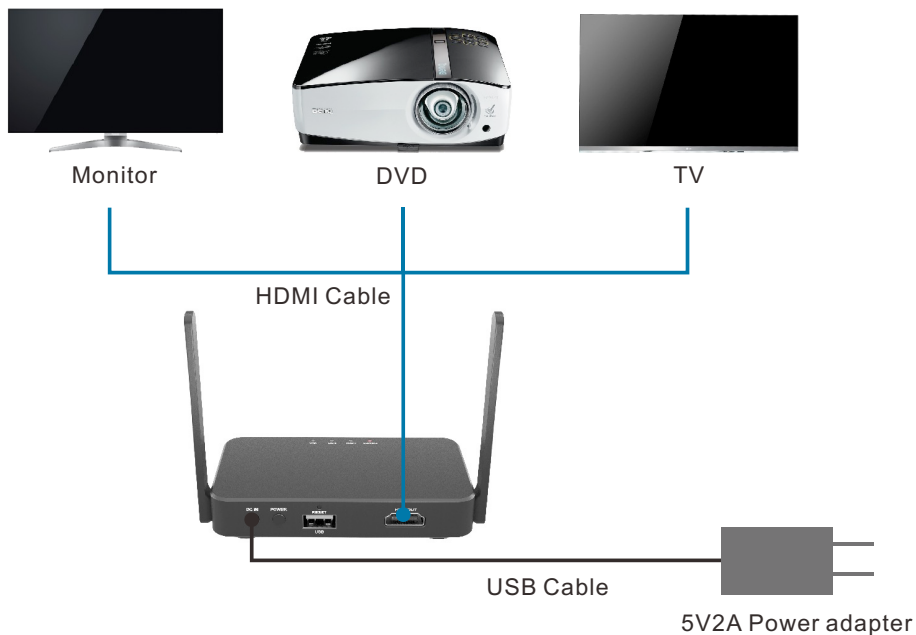
## System Connection

**Note:** This product cannot be used on partition walls. When installing, please make the front panels of the transmitter and receiver face to face each other, and avoid too many objects between the two units to avoid blocking the signal.

1. Connect source device to the HDMI input port of transmitter with the HDMI cable.
2. Connect the power adapter to the Micro USB port of transmitter, or connect the Micro USB port to the USB port of source device with USB cable.



3. Connect display device to the HDMI output port of receiver with an HDMI cable.
4. Connect power adaptor to the DC IN port of receiver.



5. After system installing, press the **POWER** button of receiver, the indicators of two units change from slow flashing to fast flashing, and finally becomes steady on. Simultaneously, the video signal of source device will be output and showed on the display device.

**Note:**

- The receiver is compatible with VESA mounting screw holes. Please use the 5x5 bracket and M4 screws.
- Due to Wi-Fi signal requires enough space, please **DO NOT** block the antenna or mount it behind of TV/Panel.

**Indicator Status**

- Slow flashing (One second interval): Means searching for devices.
- Flashing: The transmitter and receiver is connected successfully.
- Steady on: The audio and video signals on the input and output are correctly transmitted.



## Product Pairing

Since the transmitter and receiver are already paired at the factory, there is no need to match them for the first usage. But if the display device has no images after connection, the two units need to be paired again by following the below steps.

1. Directly connect the Micro USB port of transmitter to the Type-A USB port of receiver with USB cable.
2. Power on the receiver.
3. The display device will show "Pairing..." to start the pairing process.
4. After the pairing is successfully, the display device will show "Pairing OK".

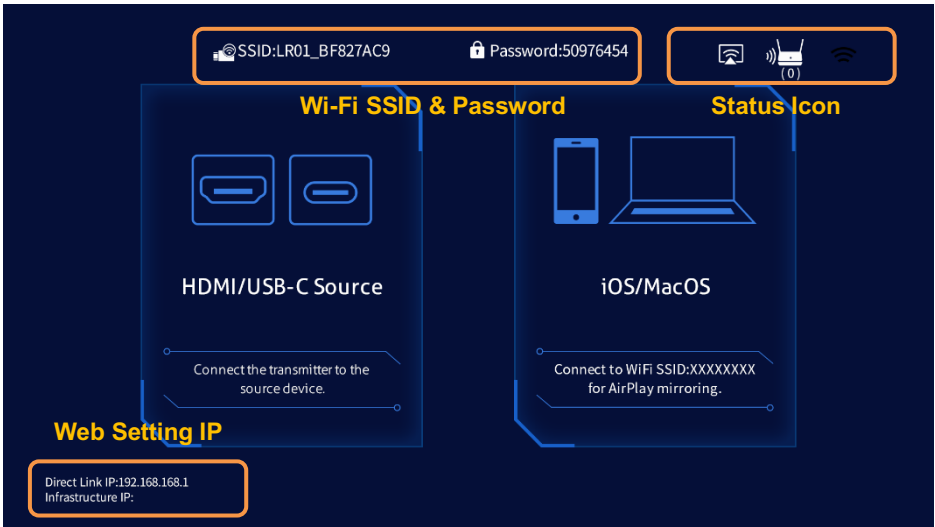


One receiver can be paired with multiple transmitters, and the switching principle is as follows:

1. **Disconnect:** Once removing the current connected transmitter, the receiver will automatically match the next transmitter.
2. **Connect:** Once a new transmitter is connected, the receiver will not automatically match the new transmitter.







# Main Screen of Receiver

When the Receiver is successfully turned on, the screen will be shown on display:



## Icons Description for Function & Link Status:

**Note:** Outbound link can select only one of Wi-Fi.

	Airplay activated after web setting. (Default is off)
	The receiver has been powered on, however, there is neither transmitter nor device linked.
	Shift in 3, which means “under pairing” or “building the connection”.
	Completing pairing or connection, the number showed total transmitter or device linked.
	Outbound Wi-Fi disconnected.
	Shift in 3, outbound Wi-Fi is connecting.



Outbound Wi-Fi connected with the router name shown underline.



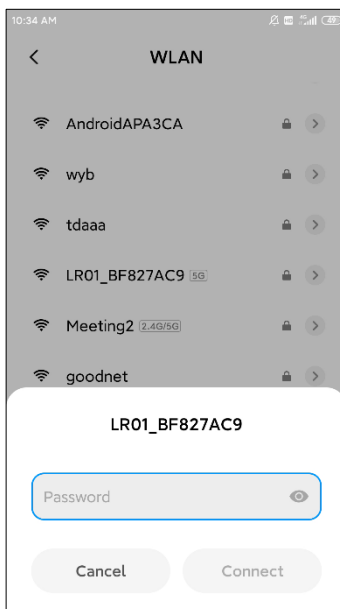
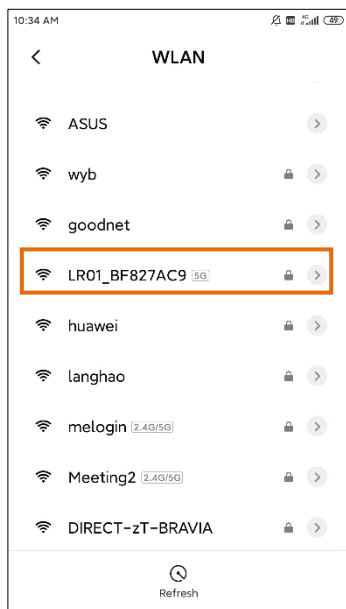
Wi-Fi connection fail, invalid password or other Errors.

## Web Setting

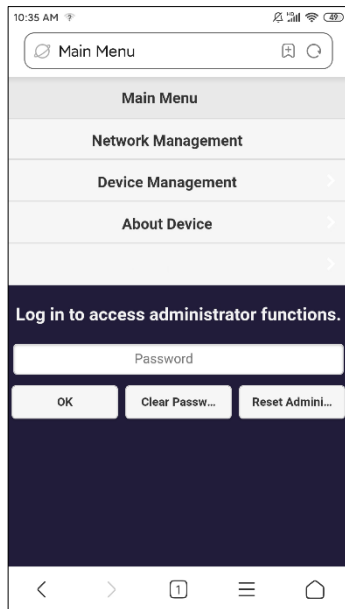
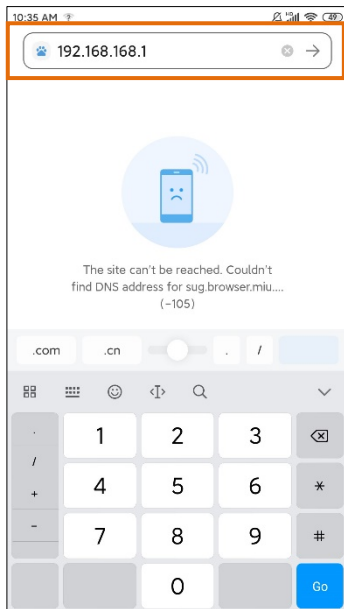
Receiver IP: When Devices (either laptops or mobile phones) connect with Receiver with SSID and Password directly, applying the IP in web browser can enter Admin setting page for more advance setting. The SSID and password are shown on the main screen of display device.

Here takes mobile phone as an example.

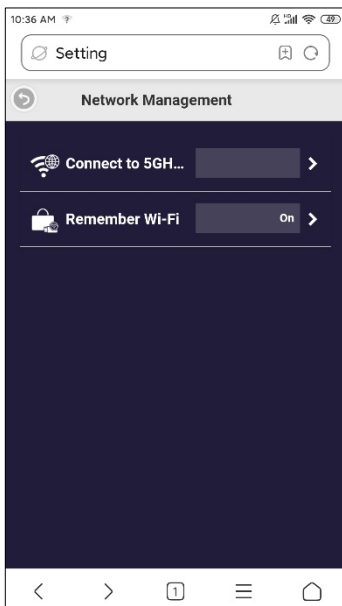
1. Connect the mobile phone to the Wi-Fi, and then enter password.



2. Type the Web Setting IP in the internet browser, it will enter the main setting page.

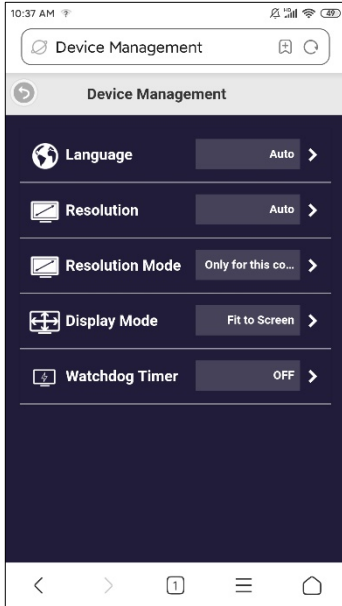


## • Network Management



- 1) Select a 5G Internet to connect.
- 2) Remember Wi-Fi setting.

## • Device Management

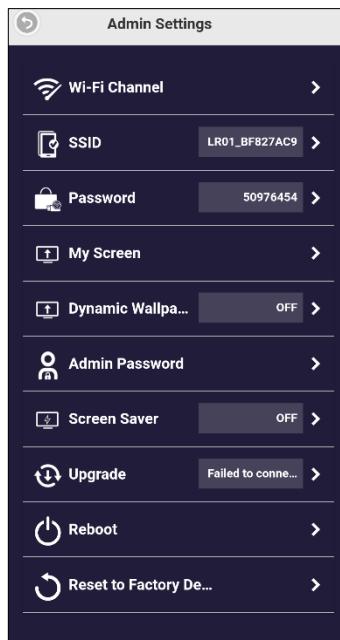
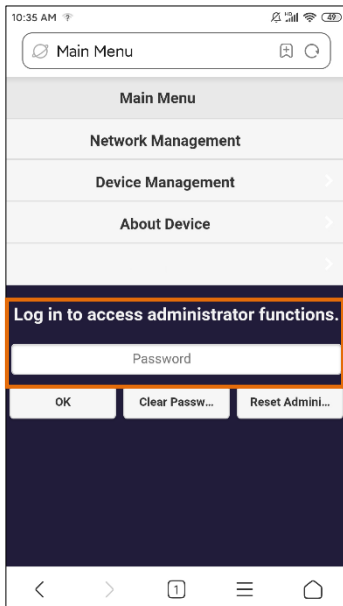


- 1) Language: Set language for the web page.
- 2) Resolution: Set the output video resolution for receiver.

**Note:** if the source input resolution is 1080p, when set the output resolution to 4K, the system needs to be reboot.

- 3) Resolution Mode: Only for this connected display/ For any connected display.
- 4) Display Mode: Fit to Screen/ Stretch to Full Screen.
- 5) Watchdog Timer: ON/OFF

3. Type the default password “000000”, and click “OK” to enter admin setting page.



- **Wi-Fi Channel:** Set the Wi-Fi mode (Country, Channel, Bandwidth).
- **SSID:** Modify the SSID, hide SSID or not, or turn on/off SSID.
- **Password:** Modify the password of Wi-Fi SSID, or hide the password setting.
- **My Screen:** The main screen of receiver can be change by this tab. Prepare the main screen and then enter the tab to upload it.
- **Dynamic Wallpaper:** Set dynamic wallpaper.
- **Admin Password:** The default admin password is “000000”, it can be changed by this tab.
- **Screen Saver:** Set the screen saver to OFF, 15 Minutes, 30 Minutes or 1 Hour.
- **Upgrade:** Upgrade software version.
- **Reboot:** Reboot the device.
- **Reset to Factory Default:** Reset the device to factory default.