

WIRELESS HDMI EXTENDER

USER MANUAL

Version1.0

PACKING LIST



1



4



2



5



3



6

1 Transmitter: 1pcs

2 Receiver : 1pcs

3 5V/2A Power Adapter(Pair Locked Adapter) : 2pcs

4 Antenna: 4pcs

5 IR Emitter: 1pcs

6 IR Receiver: 1pcs

PARAMETERS

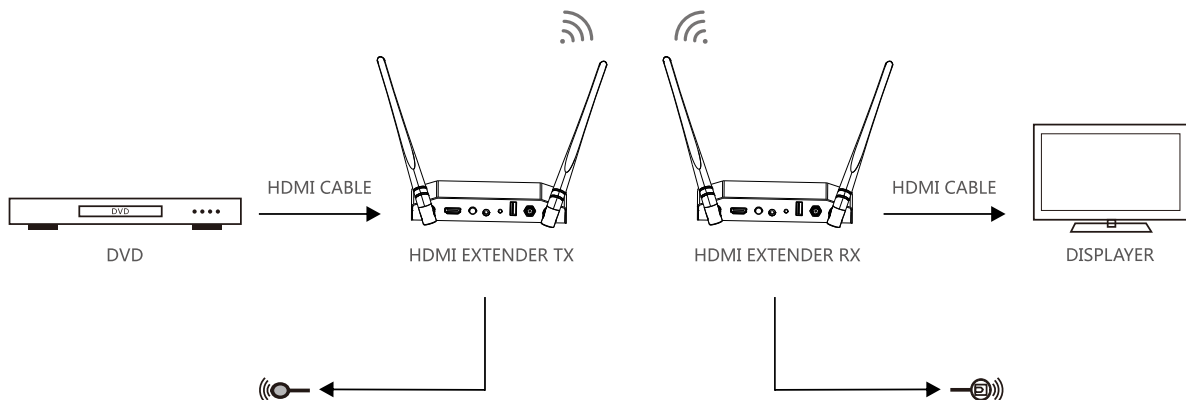
	Transmitter	Receiver
Interface	IR output; HDMI in (Type A female); 2 Antenna port (RP-SMA male); DC input; USB2.0 (Type A)	IR input; HDMI out (Type A female); 2 Antenna port (RP-SMA male); DC input; USB2.0 (Type A)
Supply Voltage Range	5V DC	5V DC
Power Consumption	<8W	<5W
Weight	366g	366g
Size	(L x W x H): 149.5X92.5X23 mm; not include antennas	(L x W x H): 149.5X92.5X23 mm; not include antennas
Input Video Format	HDMI: 480i60,480p60,576i50,576p50, 720p50/59,94/60,1080i50/59,94/60, 1080p23.98/24/25/29.9/30/50/59,94/60; HDMI Type A	/
Output Video Format	/	HDMI: 480i60,480p60,576i50,576p50, 720p 50/59,94/60,1080i50/59,94/60, 1080p23.98/24/25/29.9/30/50/59,94/60; HDMI Type A
Input Audio	Stereo 48KHz	/
Output Audio	/	Stereo 48KHz
Signal Indicator	Green/Blue	Green/Blue
Remote IR	support IR pass back	support IR pass back
Channel	Wifi protocol, support 802.11n/a	Wifi protocol, support 802.11n/a
Modulation Mode	MIMO-OFDM	MIMO-OFDM
Transmission Rate	8Mbps	8Mbps
Receiver Sensitivity	/	-93dBm (PER≤10%)
LOS Range		200 m/600ft
Latency		≤180ms
Temperature		0 ~ 40° C (operation), -20~60° C (stock)

INTRODUCTION

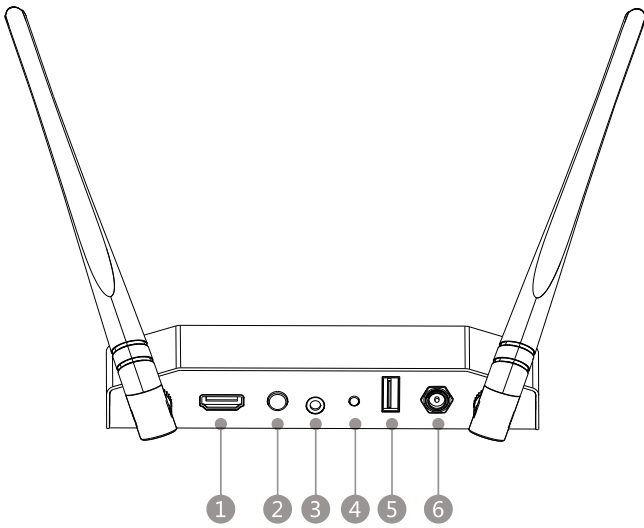
The wireless high-definition video transmission system, using today's highest level of wireless communication technology, supports HDMI 1080P60 HD signals. It includes one transmitter and one receiver, working in 5.1-5.8GHz frequency band, and different communication channels can be set based on different countries' requirements.

It supports one-way IR, easy for customers to control DVD source or Displayer at receiver side. Transmission rate up to 8Mbps, which ensures HD video and audio can be transmitted smoothly & synchronously. It also supports one point to one point transmission signal, and allows multi units to be used at same area. Customers can distinguish multi units through different indicator lights. Its effective transmission range is 200m, maximum range can reach 350m in LOS. With 5V/2A adapter and 5dBi antennas, all the ports pass $\pm 4\text{KV}$ ESD test (HBM, Human contact discharge model), reliability of device can be ensured.

Product connection diagram as follows:



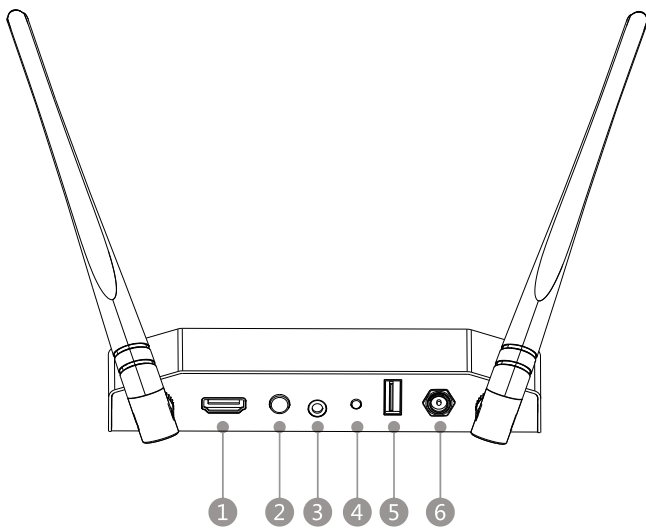
PRODUCT INTRODUCTION



TRANSMITTER

- ① HDMI Input
- ② Pairing Button
- ③ IR Output
- ④ Reset Button
- ⑤ USB port
- ⑥ 5VDC

PRODUCT INTRODUCTION



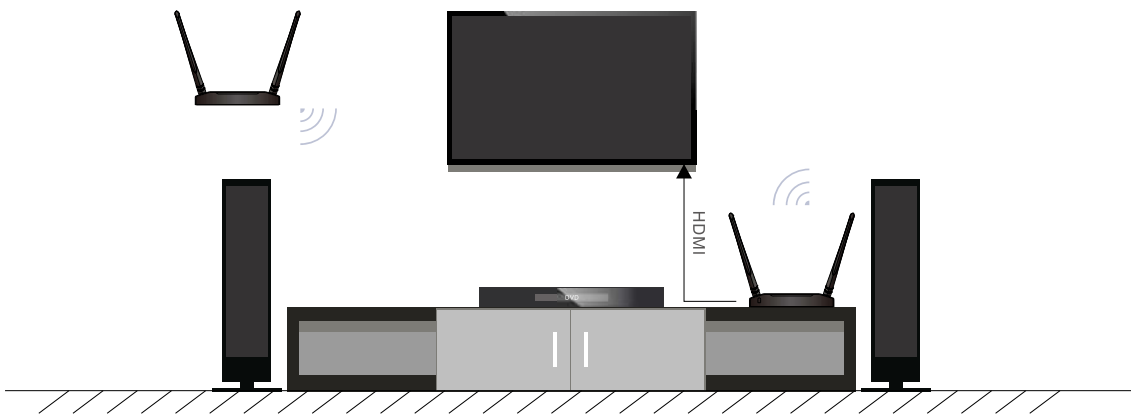
RECEIVER

- ① HDMI Output
- ② Pairing Button
- ③ IR Input
- ④ Reset Button
- ⑤ USB port
- ⑥ 5VDC

PRODUCT INSTALLATION AND USING INTRODUCTION

■ Equipment installation and use

- 1, user can directly put transmitter and receiver on a fixed area(suggest to put 2m above ground) and install high-gain antennas on the device and power it normally;
- 2, connect DVD or other sources with transmitter by HDMI cable, and connect display or TV with receiver by HDMI cable;



PRODUCT INSTALLATION AND USING INTRODUCTION

■ Pairing introduction

This product supports 1 to 1 transmission and has been paired in factory in advance. When user wants to use several sets or trouble shoot, they need to use this function. Pairing methods as below:

1, power transmitter and receiver normally, then rightly connect signal source and display;

2,After power, press pair button of receiver and transmitter at the same time for about 6 to 10 seconds until the light is always on, which proves pairing is succeed. At this time , video is normal after connecting with devices.

COMMON TROUBLESHOOTING

1 Poor video quality

- a) Please firstly check if the HDMI input and output cables are reliably connected;
- b) Make sure that the transmitter and receiver antennas angle are as shofar as possible, also you can try to replace the antenna;
- c) Make sure that the transmitter and receiver are within the effective distance.

2 The display keeps showing “Searching TX xxxx...”

- a) Please firstly check if the transmitter is normally power supplied, then please check if the HDMI cable is reliably connected;
- b) Please check if the video source output format is compatible with this product;
- c) In principle, the transmitter and receiver have been paired at the factory. In case the pairing information loss for the user's misoperation, you can try to re-pair, that is, press the TX and RX pairing button for 6 to 10 seconds, and please check if the video connection gets back to normal.

COMMON TROUBLESHOOTING

3 The video is not smooth, or there is Caton

- a) Please firstly check if the transmitter's and receiver's HDMI cables are reliably connected;
- b) Please check the antenna angle of the transmitter and receiver. In principle, the antenna angle should be as shofar as possible. At the same time, the transmitter and receiver should be placed at 1.5 meters to 2 meters above the ground the ground;
- c) Please check the packet loss rate in Network of OSD menu, whether the wireless signal strength is in the normal range, also please confirm the protocol is set to UDP;
- d) If the video is not improved, please try changing the antenna or shorten the usage distance.

4 No output on display

- a) Please check if the transmitter and receiver light boards are lit firstly, then please check if the adapters supply power normally;
- b) Reconnect the receiver power to check if there is OSD on display. If there is no OSD display, please check if the HDMI cable are well connected with display. Also you can try to replace HDMI cable with the new one;
- c) If there still no display after replacement of HDMI cables. It indicates the receiver's HDMI output is abnormal. Please contact customer service.

This product can be used across EU member states.

The plug considered as disconnect device of adapter(Manufacturer : Dongguan Winna Electronic Technology Co., Ltd. Model: YN12W-0500200VZ Input: AC 100-240V, 50/60Hz, 0.3A; Output: DC 5V/2.0A)

Extreme temperature: -10-45°C

RED 2014/53/EU

Declaration of Conformity

Hereby, {Shenzhen Hollyland Technology Co.,Ltd} declares that this {customized Android tablet} product is in compliance with essential requirements and other relevant provisions of Directive 2014/53/EU.

Hardware Version: v2

Software Version : v2

5.2G Wi-Fi frequency range: 5150-5250MHz, Maximum E.I.R.P: 16.48dBm 5.8G SRD frequency range 5745-5825MHz, Maximum E.I.R.P: 12.82dBm

When the device support wlan5G(5150-5250Mhz), Manufacture will list the following statement and countrylist(not EU country) on the user manual, and wlan5G only used to indoor

The device is restricted to indoor use only when operating in the 5G WLAN band in the following countries:

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK

Model Number: HLWH200B, HLWH200C, HLWH200D, Mizar 600, Mizar 600B, Mizar 600C
Model Declaration:PCB board, structure and internal of these model(s) are the same,
So no additional models were tested.

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

EU Declaration of Conformity
for
Radio Equipment Directive 2014/53/EU

We,

Shenzhen Hollyland Technology Co.,Ltd

hereby, declare that the essential requirements set out in the **Radio Equipment Directive 2014/53/EU** have been fully fulfilled on our product with indication below:

Product Name: WIRELESS HDMI EXTENDER

Model / Brand Name: HLWH200B, HLWH200C, HLWH200D, Mizar 600, Mizar 600B, Mizar 600C / HOLLYLAND

The following standards have been applied for the investigation of compliance:

ETSI EN 301 489-1 V2.1.1 (2017-02)

Final draft ETSI EN 301 489-3 V2.1.1 (2017-03)

ETSI EN 301 489-17 V3.1.1(2017-02)

EN 55032: 2015

EN 55035: 2017

ETSI EN 301 893 V2.1.1 (2017-05)

ETSI EN 300 440 V2.1.1 (2017-03)

EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013

EN 62311: 2008

And apply notified body assessment:

Notified Body number 0700

PHOENIX TESTLAB GmbH

Königswinkel 10

D-32825 Blomberg

Germany

Hardware Version: v2

Software Version: v2

Support equipment List

Adapter Charger	Manufacturer: Dongguan Winna Electronic Technology Co., Ltd. Model name: YN12W-0500200VZ Ratings: Input: AC 100-240V, 50/60Hz, 0.3A MAX; Output: DC 5V/2.0A
Antenna	Two same SMA Antenna; support MIMO technology ANT0&ANT1 are used for WIFI TX/RX, 5.0dBi(Max.) for 5G Band

Furthermore, the ISO requirement for the in-process quality control procedure as well as the manufacturing process has been reached. The technical document as well as the test reports will be kept for a period at least 10 years after the last product has been manufactured at the disposal of the relevant national authorities of any Member State for inspection.

Detail contact information for this declaration has been listed below as the window of any issues relevant for this declaration.

European Representative

Manufacturer Contact

Company:

Shenzhen Hollyland Technology Co.,Ltd

Address:

6/F, 3rd Bldg., 2nd South Zone, Honghualing Industrial
Park, No.1213 Liuxian Avenue, Xili Town, Nanshan
Distric, Shenzhen 518055 China

Name/Title:

Vincent Ma / Sales Director

Tel. No.:

+86-755-86000682

Fax No.:

+86-755-83940008

E-Mail:

vincent.ma@hollyland-tech.com

Signature: _____



Date :

2018-10-10