

LM-WHD05 50m Wireless HD Video Transmission Solution



Introduction

This Wireless HD Video Solution enables wireless transmission of video/audio from any HDMI video source such as PC/HDTV to display devices includes HDTV/HD Monitor over the 5GHz band, with very low latency.

It does not require any special configuration of software driver installation-simply connect the transmitter to the HDMI output of the video source and the receiver to the HDMI input of the Panel/TV/Monitor. Its Plug & Play operation makes it the ultimate solution for the most demanding indoor/outdoor professional environments.

This Wireless HD Video Transmission Solution is widely applicable to family entertainments, office presentation, lecture, education, medical treatment, party, conference etc.

Features

1. Support HD devices with HDMI input/output, include Blu-ray player, DVD player, PC, laptop, HDTV etc.
2. 5GHz Wireless HD Video Transmission
3. Supports Multi resolution up to 1080p
4. HDMI Input / Output, support multi devices with HDMI
5. Low latency <100ms
6. Effective Range: 50m (Line of sight)
7. WPS Transmitter – Receiver Pairing
8. Plug & Play – full hardware design, no software is required
9. AES128/256 Encryption

Specification

Item	Transmitter	Receiver
Frequency	5GHz	
RF Communication	2x2 MIMO	
Modulation Mode	OFDM	
Bandwidth	20MHz/40MHz	
Transmission Range	50m	
Frequency Stability	± 20PPM	
Wireless Standard	802.11n	
Transmission Power	802.11n (HT20@MCS7): 12dBm	
EVM	802.11n (HT20@MCS7): 12dBm ≤ -26dBm	
Receiving Sensitivity	802.11n (HT20@MCS7): -70dBm	
	802.11n (HT40@MCS7): -65dBm	
System Latency	≤ 100ms	
Antenna	2x2 4dBi Built-in Antenna	
Encryption	AES128/256	
Network Mode	AP	Station
Standard Protocol	HDMI 1.3, HDMI 1.4 3D, HDCP 2.0	
Power Supply	DC 5V/2A	
Power Consumption	5 Watts	3 Watts
Dimensions	101x59x21mm	
Video Formats	HD: 1080p, 1080i, 720p, 576p, 480p PC: VGA (640x480), SVGA (800x600), XGA (1024x768)	
Video Compress Formats	H.264	
Audio Formats	PCM, AAC, Dolby Digital 2.0	
Audio Compress Formats	AAC	
Operating Temperature Range	0 to 40°C	
Storage Temperature Range	-20 to 80°C	
Operating Humidity Range	15-85%RH	

Panel Description

Transmitter



- ① Pairing Button/Channel Switch
- ② LED light :video (blue)
- ③ LED light :network(red)
- ④ IR out
- ⑤ Mini USB in
- ⑥ DC in
- ⑦ HDMI in

1. Pairing:

For Devices paring, use a pinpoint to press for about 5 seconds then release, the devices will be paring.

2. LED Indicators:

Red for Networking; Blue for Video

4. IR Out Socket:

Connect with IR extension connector to transmit IR signal

5. USB:

USB Socket for upgrading

6. DC Power:

Power socket for DC adapter

7. HDMI In:

Connect to HD Video Source device such as DSLR/DV, Blu-ray Player, Laptop, HDTV etc.

Receiver



1. Pairing:

For devices paring, use pin to push for about 5 seconds then release, the devices will be paring.

2. LED indicators:

Red for Networking; Blue for Video.

4. IR In Socket:

Connect with IR extension connector to receive the IR signal

5. USB:

USB socket for upgrading.

6. DC Power:

Power socket for DC adapter

7. HDMI Output:

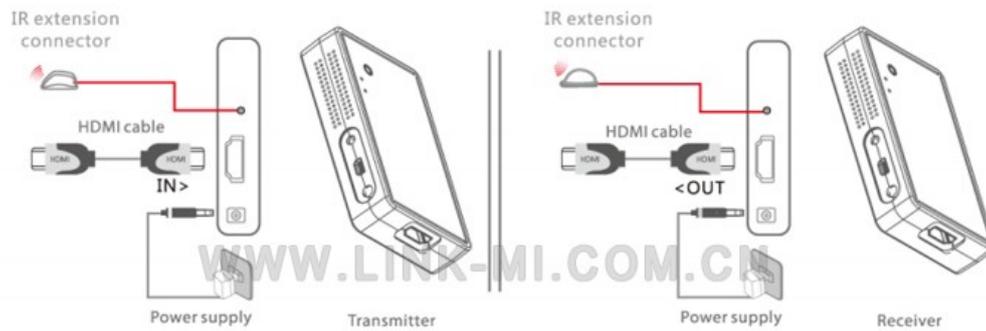
Connect to HD display device such as HDTV, Projector, LED Screen etc.

Indicators

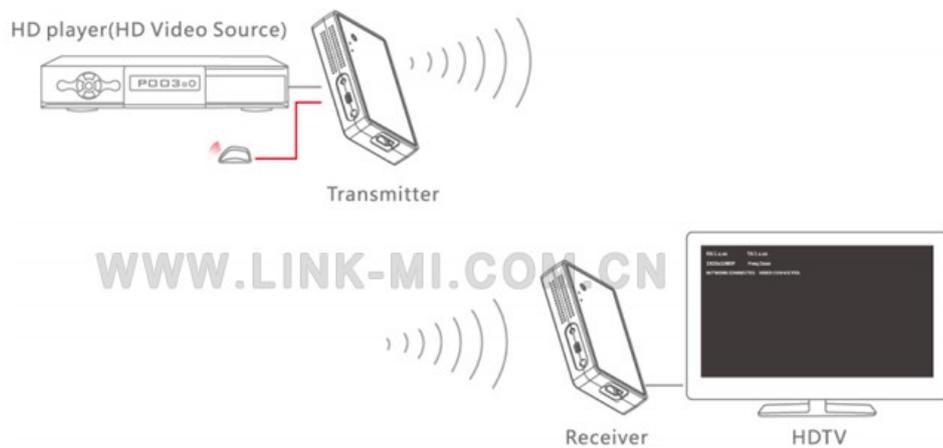
LED Indicator	Display	Device Status
Network Indicator (RED)	Indicator ON	Device Power On
	Twinkle Slowly	Connecting...
Video Indicator (BLUE)	Indicator ON	Video Transmission On
	Twinkle Slowly	No Video Signal Input
Both Video & Networking	Twinkle Quickly	Pairing...
	Twinkle Quickly Alternately	Channel Switching...

Connection and Operating

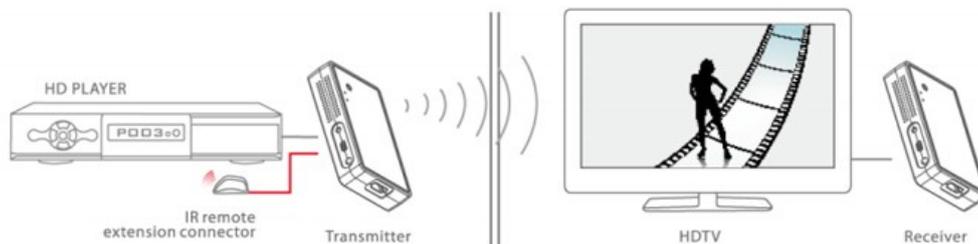
1. Locate the transmitter and receiver respectively on the base. To avoid interference from other devices ,please Do not place any barriers near to the devices.
2. Connect the power adaptor to the transmitter and receiver. Connect the IR extension connector to the IR Output socket of transmitter, and put it properly in front of IR sensor area of video source; and connect the IR extension connector to the IR input socket of receiver.



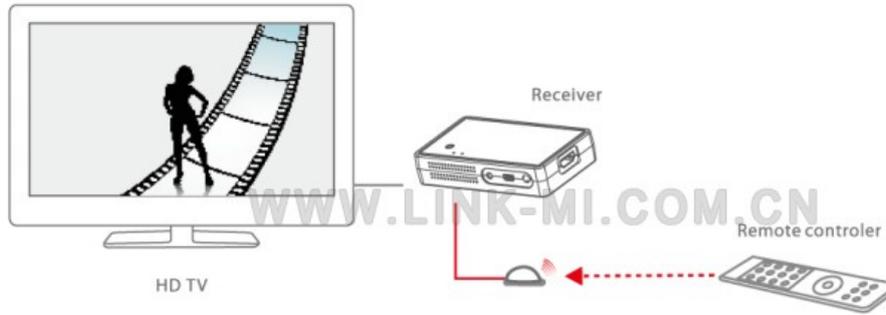
3. Connect the transmitter to the video source device via HDMI cable, then power on the transmitter and video source device. connect the receiver to the video display device, then turn on the receiver & display device, make sure the network and the video connected properly, the LED indicators will light ON.



4. Wait for the system start, and the screen will display text. Connecting to transmitter, then the images shows up, which means the product is working.



5. When the system working properly, user can use the remote controller of HD player at the HDTV side, the remote controller should be aligned to IR connector of the receiver.



6. While connected, user can press the channel switch of transmitter or receiver to change to other channel for better transmission.



Connection Diagram



Packing Contents

1. 1pcs Wireless HD Transmitter
2. 1pcs Wireless HD Receiver
3. 2pcs Adaptor with USB Cable
4. 1pcs HDMI Cable
5. 2pcs IR Extension Connector

