



# USER MANUAL <sup>V1.0</sup>



## 4K 30Hz Wireless HDMI Extender (328ft.)

JTD-3276 | JTECH-WEX4K-100 (Tx / Rx Kit)

JTD-3277 | JTECH-WEX4K-100T (Tx Only)

JTD-3277 | JTECH-WEX4K-100R (Rx Only)

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Scan the QR code below or visit to view and access detailed digital resources regarding this unit.

JTD-3276 | JTECH-WEX4K-100



<https://www.jtechdigital.com/product/3276>

JTD-3277 | JTECH-WEX4K-100T



<https://www.jtechdigital.com/product/3277>

JTD-3278 | JTECH-WEX4K-100R



<https://www.jtechdigital.com/product/3278>

To explore similar products, view the link below:

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## Safety Instructions:

- Before using this product, please carefully read the following safety instructions to ensure its proper use and keep this manual for future reference:
- To prevent electric shock, do not attempt to open the product.
- Only qualified personnel should perform any repairs or maintenance.
- Always place the product on a stable, flat surface to prevent it from falling.
- Do not expose the product to water, moisture, or high-humidity environments to avoid the risk of damage.
- To prevent damage from direct sunlight or high temperatures, do not expose the product to such environments.
- Do not place the product near heat sources like radiators, heat registers, stove, or other heat-producing apparatus.
- Do not place any objects on top of the product to avoid damage.
- Use only the attachments and accessories specified by the manufacturer.
- During lightning storms or prolonged periods of disuse, unplug the power supply to prevent damage.

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## 1. Product Introduction

The JTECH-WEX4K-100 is a wireless HDMI extender kit that transmits video and audio up to 100 meters (328 feet) at resolutions up to 4K@30Hz. It includes a transmitter (Tx) and receiver (Rx) and supports IR control, AUX audio output on the receiver, a local HDMI loop-out on the transmitter, and an analog audio input for audio embedding—making it a flexible solution for home, office, and commercial AV setups.

## 2. Package Contents

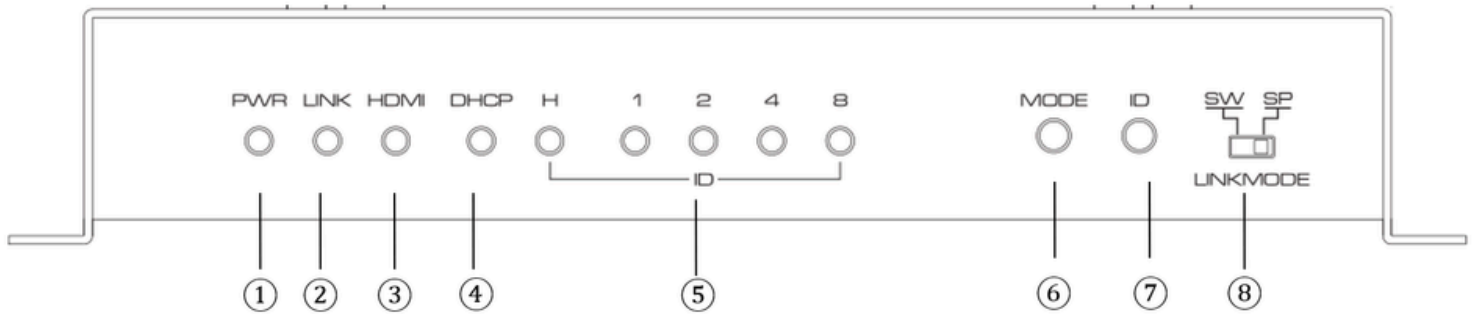
- 1 x JTECH-WEX4K-100T
- 1 x JTECH-WEX4K-100R
- 2 x 12V Power Adapter
- 1 x User Manual

**Note:** Package contents may be different depending on if the kit was purchased, or if the transmitter and/or receiver were purchased separately.

## 3. Features

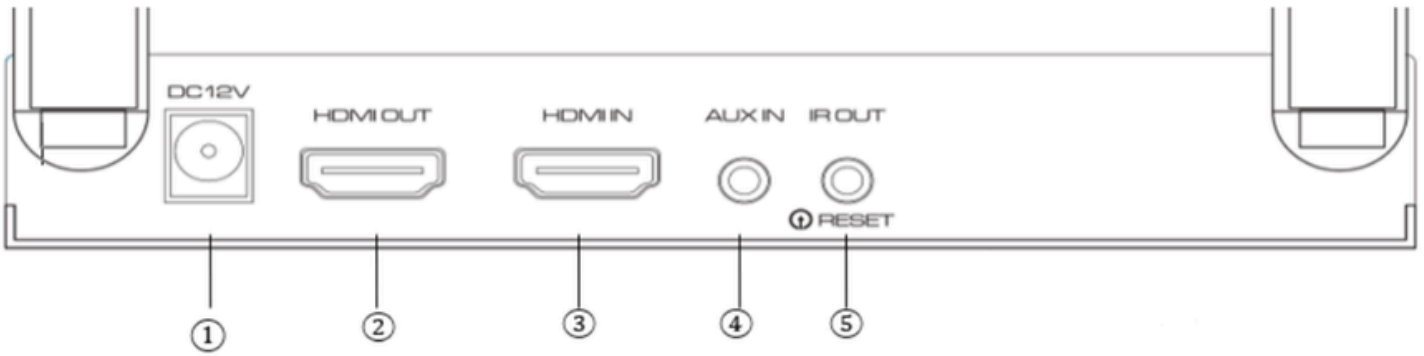
- Transmits HDMI video and audio up to 100 meters (328 feet) wirelessly
- Supports resolutions up to 4K@30Hz for clear, detailed video
- Includes transmitter (Tx) and receiver (Rx) units for easy setup
- IR control for remote source management
- AUX audio output on the receiver for external speakers or audio systems
- Local HDMI loop-out on the transmitter for local monitoring
- Analog audio input on the transmitter for embedding external audio
- Ideal for home entertainment, office setups, and commercial AV applications

## 4. Hardware Interface



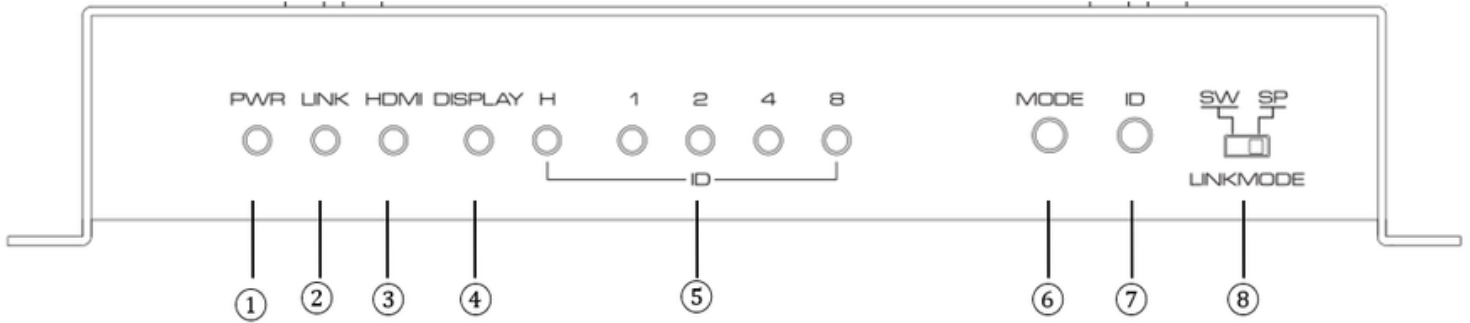
Front panel view of TX

No.	Description	Introduction
1	Power indicator	Lights when power is supplied
2	Link status indicator	Lights when wireless module starts normally Flashes when data is transmitting
3	HDMI status indicator	Lights when HDMI cable is connected to the HDMI In port
4	DHCP mode indicator	Lights on to enable DHCP when necessary
5	ID indicator	ID value displayed. Lights when link mode is switched to SW When indicator H is off, the indicator 1/2/4/8 shows low bit value When indicator H is on, the indicator 1/2/4/8 shows high bit value
6	DHCP mode select button	Short press: DHCP mode can be turned on or off
7	ID select button	Short press: Switch ID value Long press (more than 3 seconds): Switch ID values high/low bit. Indicator H lights on when switched to high bit
8	Link mode select switch	Select link mode between SW (switch) or SP (splitter) mode



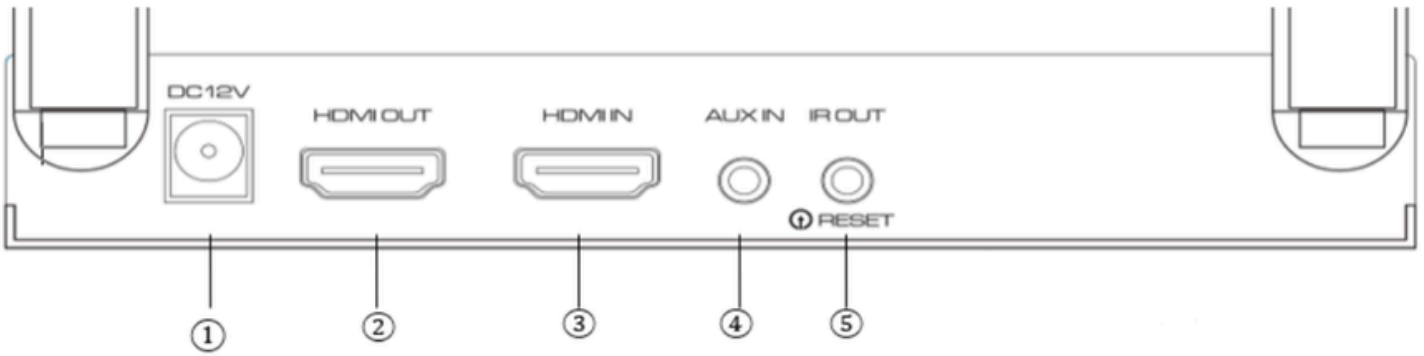
Rear panel view of TX

No.	Description	Introduction
1	Power jack	Requires 6-12V power supply
2	HDMI output port	Connects to a display with HDMI port for loop-out
3	HDMI input port	Connects to a source device (e.g. laptop / computer etc.)
4	Analog audio input port	Audio input to replace the audio from HDMI source
5	IR output jack	Infrared transmitter jack and reset button (embedded in the jack)
6	DHCP mode select button	Short press: DHCP mode can be turned on or off



Front panel view of RX

No.	Description	Introduction
1	Power indicator	Lights when power is supplied
2	Link status indicator	Lights when wireless module starts normally Flashes when data is transmitting
3	HDMI status indicator	Lights when HDMI cable is connected to the HDMI Out port
4	Display mode indicator	Lights off for Graphic mode with shorter latency Lights on for Video mode with less package lost rate
5	ID indicator	ID value displayed. Lights when link mode is switched to SW When indicator H is off, the indicator 1/2/4/8 shows low bit value When indicator H is on, the indicator 1/2/4/8 shows high bit value
6	Display mode select button	Click to switch display mode
7	ID select button	Short press: Switch ID value Long press (more than 3 seconds): Switch ID values high/low bit. Indicator H lights on when switched to high bit
8	Link mode select switch	Select link mode between SW (switch) or SP (splitter) mode



Rear panel view of RX

No.	Description	Introduction
1	Power jack	Requires 6-12V power supply
2	HDMI output port	Connects to a display with HDMI port for loop-out
3	Analog audio output port	Connect an external audio system via 3.5mm cable
4	IR input jack	Infrared receiver jack and Reset button (embedded in the jack)

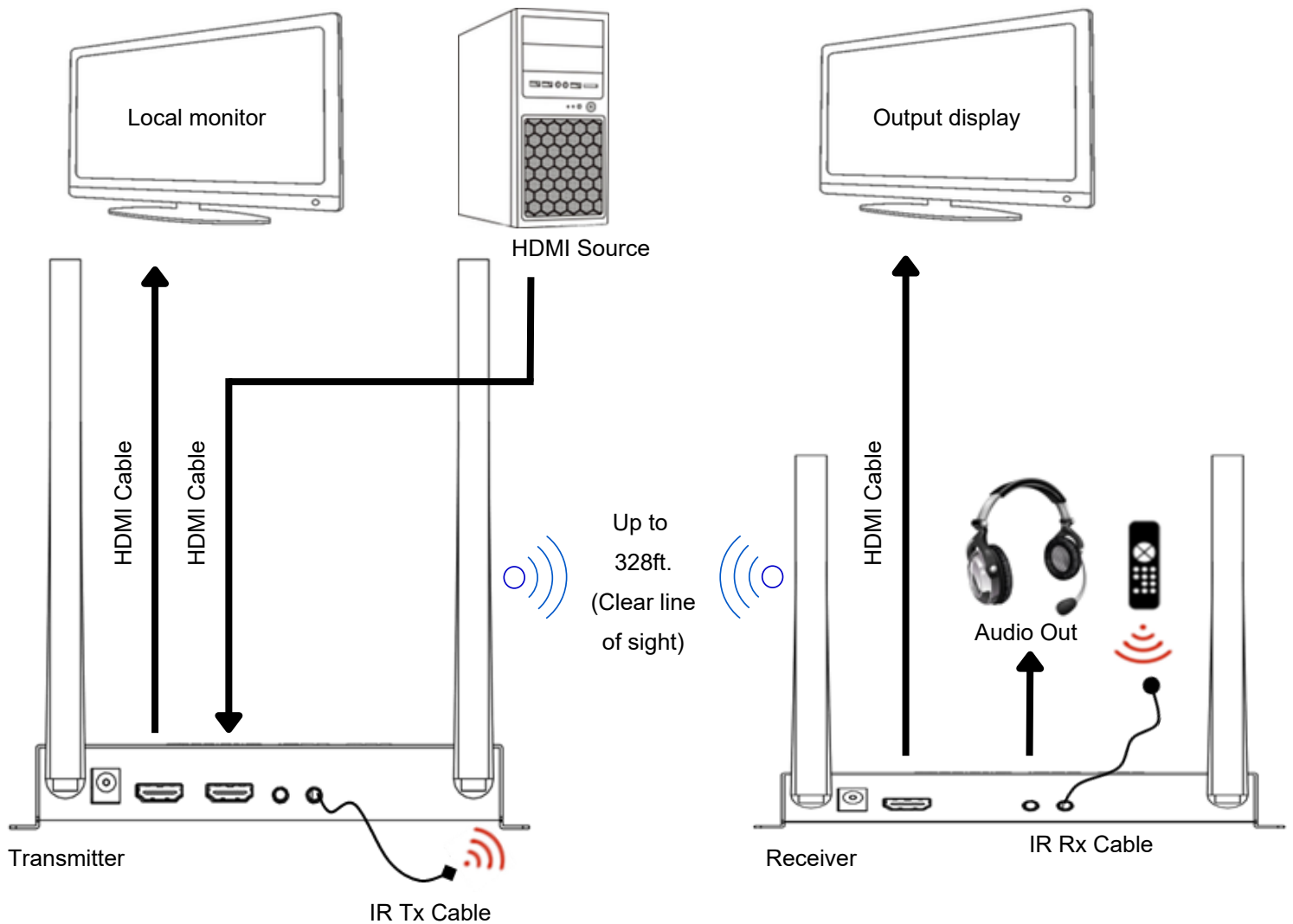
## 5. Specifications

Ports	TX: HDMI IN x1, HDMI OUT x1, AUX IN x1, IR OUT x 1, RS232 x1, Micro USB x1, DC JACK x1  RX: HDMI OUT x1, AUX OUT x1, IR IN x 1, RS232 x1, USB2.0 x2, DC JACK x1
HDMI input resolution	480P / 720P / 1080P / 2160P@60 / 50 / 30 / 25 / 24
HDMI loop output resolution	Same as input, with no latency

Ports	TX: HDMI IN x1, HDMI OUT x1, AUX IN x1, IR OUT x 1, RS232 x1, Micro USB x1, DC JACK x1  RX: HDMI OUT x1, AUX OUT x1, IR IN x 1, RS232 x1, USB2.0 x2, DC JACK x1
HDMI input resolution	480P / 720P / 1080P / 2160P@60 / 50 / 30 / 25 / 24
HDMI loop output resolution	Same as input, with no latency
HDMI output resolution	480P / 720P / 1080P@60, Output 4K@30 when 4K input
HDMI audio format	LPCM (48/44.1/32KHZ 16/20/24bit)
Input / Output TMDS signal	0.5~1.5Vp-p(TTL)
Input / Output DDC signal	5Vp-p(TTL)
Transmission latency	Less than 80ms
Wireless standard	802.11 ac WiFi MIMO technology
Wireless band	4.900 GHz ~ 5.845 GHz (5GHz ISM Band)
Antenna type	External dual 5dBi gain antenna
Transmit output power	802.11ac /MCS9: 15 dBm $\pm$ 1.5 dB @ EVM $\leq$ -32dB
Transmission distance	$\leq$ 100m (in open space)
IR carrier frequency	20~60KHZ

Power adapter specifications	Input: AC 100~240V / Output: DC 12V/1.5A
Max working current	TX≤ 400mA, RX≤ 300mA
Working temperature range	0 ~ +40°C
Working humidity range	10 to 85%RH (No Condensation)
Storage temperature	-10 to 60°C
Storage humidity	5 ~ 95% RH (No Condensation)
Size	TX / RX:170.5 * 74.5 * 27.5 (mm)
Weight	TX:325g RX:330g

## 6. Connection and Operation



### Install TX

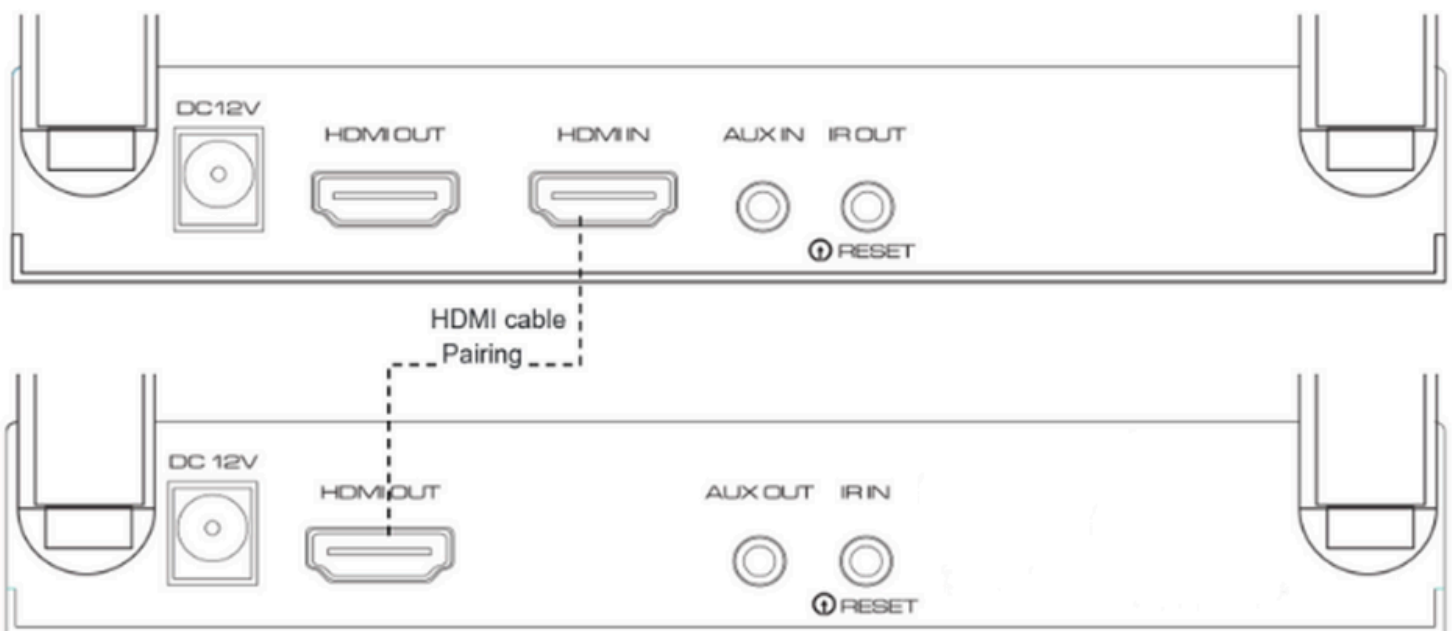
1. Connect HDMI output port of video source (BD player, PC...) to HDMI input port of TX by HDMI cable.
2. If you need a local screen, connect HDMI output port of TX to HDMI input port of TV by HDMI cable.
3. Connect the power adapter to TX and wall socket, the TX will power on automatically, the power indicator will turn on.

## Install RX

1. Connect HDMI output port of RX to HDMI input port of TV by HDMI cable.
2. Connect the power adapter to RX and wall socket, the RX will power on automatically, the power indicator will turn on.

## 7. Wireless Pairing

1. TX and RX must be paired before normal use.
2. Connect HDMI IN port of TX and HDMI OUT port of RX by the HDMI cable to pair. The HDMI status indicator flash when pairing and stop flashing after complete pairing.



3. If you want to clear the pairing, please press the reset button of TX & RX for more than 6 seconds. The pairing information is cleared when the button is released. The reset button is embedded in the IR OUT/IN jack, you need a long and thin rod (e.g. toothpicks) inserted into the jack to operate it.

## Splitter (SP) Mode (1 to 1 / 1 to N)

1. Position the toggle switch to SP Mode on both TX and RX.
2. In the SP mode, support one TX and one or multiple RX simultaneous connection. All Rx and Tx should be paired before use.
3. In the case of 1 to N, it is recommended that the number of Rx should not exceed 4.
4. If there's no signal on the monitor connected to RX, please make sure TX and RX are both switched to SP mode and have been paired together.

## Switch Mode (N to 1)

1. Position the toggle switch to SW Mode on both TX and RX.
2. In the SW mode, support one or multiple TX and one RX connection. All TX and RX should be paired before use.
3. TX and RX can only connect after setting the same ID.
4. Two TX/RX cannot have the same ID at the same time, otherwise it will prompt an ID conflict, at this point all the ID indicator lights will flash. You must modify the ID of one of the TX/RX before you can continue using it.

## ID setting and display

1. ID setting is required in SW Link mode, TX and RX can only connect after setting the same ID.
2. Click ID button to switch ID value, and long press ID button to switch ID value high/low bit. H indicator lighting when switched to high-bit.
3. In the low-bit display state, four LEDs of 1/2/4/8 represent low ID value 1-15. ID value is the total of what is light on. Refer to the following table for details.

ID	lights status 1-2-4-8	ID	lights status 1-2-4-8	ID	lights status 1-2-4-8	ID	lights status 1-2-4-8
/	○○○○	4	○○●○	8	○○○●	12	○○●●
1	●○○○	5	●○●○	9	●○○●	13	●○●●
2	○●○○	6	○●●○	10	○●○●	14	○●●●
3	●●○○	7	●●●○	11	●●○●	15	●●●●

Note: ● means light on and ○ means light off.

4. If 15 IDs are not enough for your circumstances, up to 255 IDs are provided. The ID more than 15 is “high bits x 16 + low bits”. In the high-bit display state, it is divided into 16 segments with 16 IDs as a segment. At this point, 1/2/4/8 four LEDs represent the number of segments. Refer to the following table for details.

ID segment	lights status H-1-2-4-8	ID segment	lights status H-1-2-4-8	ID segment	lights status H-1-2-4-8	ID segment	lights status H-1-2-4-8
1-15	●○○○○	64-79	●○○●○	128-143	●○○○●	192-207	●○○●●
16-31	●●○○○	80-95	●●○●○	144-159	●●○○●	208-223	●●○●●
32-47	●○●○○	96-111	●○●●○	160-175	●○●○●	224-239	●○●●●
48-63	●●●○○	112-127	●●●●○	176-191	●●●○●	240-255	●●●●●

## How to control the device by using remote control

1. Using the infrared transmission function of this product, you can remote control the source devices and other peripherals that can be controlled by infrared (e.g. air conditioner).
2. Connect the IR Transmitter cable to the IR OUT jack of TX, and aim the IR probe in front of the IR sensor of the video source. (Please find the correct position of IR sensor of the video source or the IR signal won't pass through)
3. Connect the IR Receiver cable to the IR IN jack of RX, and use the source device remote control aiming at IR receiver of the cable to control the source device, the distance between this IR receiver hole and remote control should be within 5m.

## 8. Other Notes

1. Proprietary anti-interference technology to ensure stable streaming in a crowded Wi-Fi environment, support up to 6 sets of equipment running at the same time at one space.
2. TX / RX will automatically select a channel with less interference to connect according to the current wireless interference situation.
3. Don't worry about the data security, this product support AES 128-bit security encryption and WPA2/WPA-PSK/WPA2-PSK authentication protocol to protect data. HDCP supported to protect the content.
4. If the environment is not good, the distance could will be much shorter. At this time, please try to adjust the angle of the antenna or adjust the position of the device. Matter that needs attention: Concrete walls, Brick, Wallpaper, Metal, Bulletproof glass will shorten the signal cover range or cause big signal loss. Please try to avoid these obstacles in the transmission path.
5. When the devices can't run normally, please try to restart TX and RX, or reset and repair.
6. This product only support 48/44. 1/32KHZ 16/20/24 bit digital audio, please check the source device set to correct audio standard. If the product has no sound or abnormal sound, try to modify the audio output format of the signal source to LPCM/PCM.

## 9. Warranty

If your product does not work properly because of a defect in materials or workmanship, our Company (referred to as "the warrantor" ) will, for the length of the period indicated as below, (Parts(1)Year, Labor(90) Days) which starts with the date of original purchase ("Limited Warranty period"), at its option either(a) repair your product with new or refurbished parts, or (b) replace it with a new of a refurbished product. The decision to repair or replace will be made by the warrantor.

During the "Labor" Limited Warranty period there will be no charge for labor.

During the "Parts" warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

## 10. Mail-In Service

When shipping the unit carefully pack and send it prepaid, adequately insured and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

## 11. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.) PARTS AND SERVICE, WHICH ARE NOT COVERED BY HIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.

### **Extended Warranty:**

With the registration of supported J-Tech Digital products, you extend the current warranty by 6 months. This extension is added to the warranty that starts at the purchase date of the device supported. Total product warranty with the extended period will equate to a total of 18 months of warranty from the date of purchase.

For extended warranties to be accepted, all warranty extensions must be claimed within 30 days of purchasing the eligible J-Tech Digital product. Extensions attempted to be claimed outside of the 30-day window will not be accepted. Visit <https://www.jtechdigital.com/get-warranty-extension> to register your extended warranty



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