NEXIS

HDMI Wireless KVM Extender

Model: TW-H100A

Super Long Distance 1080P Wireless HDMI Transmission
Support IR & USB Extending control function

INTRODUCTION

Thank you for purchasing TW-H100A Wireless HDMI KVM Extender. This product can extend HDMI signals from a source device to a display device with KVM extension wirelessly up to 492ft (150m) and supports resolutions up to FHD 1080p. It requires no cables between the Transmitter (TW-H100AT) and Receiver (TW-H100AR)

It is the ideal product for HDMI wireless applications. Sometimes you may find that a cabled connection is not suitable, a long HDMI cable is not available, or a cabled connection is just not an option. You can use the TW-H100A for your HDMI wireless applications such as Home Theatre, cross-room HDMI wireless, meeting rooms, or game room applications.

TW-H100A also includes an IR and USB extending control function, providing an easy remote control extension via the IR and USB pass-through function, allowing control of your Set Top Box, Blu-ray player, other streaming player or PC, Laptop from the HDMI extender's receiving end.

FEATURES AND CONTENTS

Features:

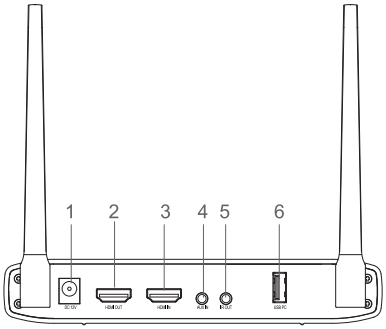
- Transmits HDMI signals in 1080p up to 492ft (150 meters) L.O.S wirelessly
- Supports Switch & Splitter Mode Display
- Supports loop-through HDMI output on the transmitter to connect a local display
- Less than 300ms low latency
- KVM extension with USB ports to control PC on receiver side.
- Supports IR extender control function, allows the source device to recognize remote commands from a remote location
- Support external audio port. (3.5mm earphone jack) via wireless transmission
- HDCP compliant
- Room to room HDMI wireless transmission
- Low power consumption

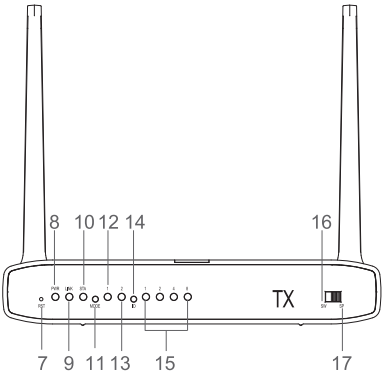
Package Contents

- 1x TW-H100AT Transmitter main unit
- 1x TW-H100AR Receiver main unit
- 1x IR receiver probe
- 1x IR emitter probe
- 1x USB A male to male cable
- 1x 3.5mm male to male audio cable
- 4x Extend antenna
- 2x DC 12V/1A power adaptor
- 1xUser Manual

PRODUCT OVERVIEW

Transmitter Overview

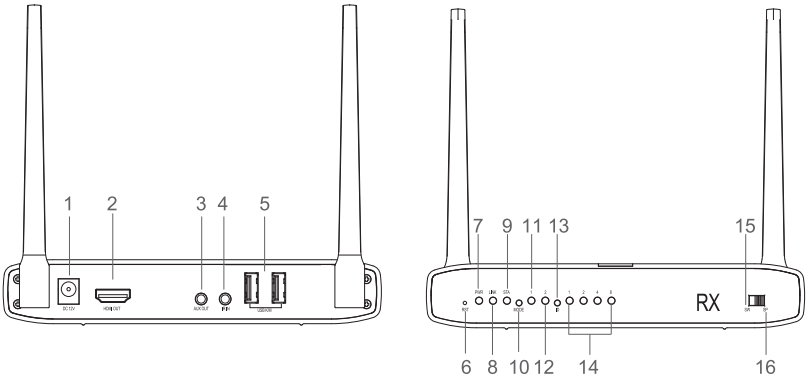




Item	Port	Description
1	DC IN port (Power port)	Connects to the included power adapter. Requires 12V/1A power supply.
2	HDMI OUT port	Connects to local display device (Monitor HDTV/ Monitor, projector, etc.)
3	HDMI IN port	Connects to your Source device (Laptop, PC, DVD player, set top box, etc.)
4	AUX IN port	Audio input to replace the audio from HDMI source.
5	IR OUT port	Connects to your IR emitter probe .Supports IR output for remote control. Note: Place the IR emitter close to the source device to best transmit the IR signal to the source
6	USB PC	Connects to your PC's USB port using the USB Type-A to Type-A cable for receiving reverse control signals of Keyboard and Mouse
7	Reset hole (RST)	Long press to reset to factory default settings

Item	Led signal and button	Description
8	Power LED	LED is ON when powered.
9	LINK LED	LED is ON when TX and RX is connected.
10	STA LED	Led blinks when it is successfully connected and transmitting data.
11	Display Mode Button	Click to switch display mode: Graphic or video mode (Long press to optimize signal transmission.)
12	Display Mode LED	OFF: Graphic mode-Lowest latency. ON: Video mode -Lowest drop frames.
13	Channel Mode LED	OFF: Low frequency band. ON: High frequency band.
14	Channel Mode Button	Single click to switch channel no.-0000-1111 (TX and RX need same channel no. when transmission) Long press to switch channel mode- Low or High band
15	Channel no.	0000 – 1111 is the total of what is light on.
16	Switch Mode	One RX to multiple TX (up to 4 TXs) Display the screen to RX with the same Channel no.
17	Splitter Mode	One TX to multiple RX (up to 4 RXs) (TX and RX need same SP mode when transmission)

Receiver Overview



Item	Port	Description
1	DC IN port (Power port)	Connects to the included power adapter. Requires 12V/1A power supply.
2	HDMI OUT port	Connects to your sink display device (Monitor HDTV/ Monitor, projector, etc.)
3	AUX Out port	Audio output to external speakers. *Note: That HDMI output port sends audio simultaneously.
4	IR In port	Connects to the IR receiver probe. Supports IR input for remote control.
5	USB K/M	Connects to your keyboard and mouse to control the PC at RX side.
6	Reset hole (RST)	Long press to reset to factory default settings

Item	LED signal and button	Description
7	Power LED	LED is ON when powered
8	LINK LED	LED is ON when TX and RX is connected.
9	STA LED	Led blinks when it is successfully connected and transmitting data.
10	Display Mode Button	Click to switch display mode : Graphic or video mode (Long press to optimize signal transmission.)
11	Display Mode LED	OFF: Graphic mode-Lowest latency. ON: Video mode -Lowest drop frames.
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14	Channel no.	0000 – 1111 is the total of what is light on.
15	Switch Mode	One RX to multiple TXs (up to 4 TXs). Display the screen to RX with the same Channel no.
16	Splitter Mode	One TX to multiple RXs. (TX and RX need same SP mode when transmission)

CONNECTION

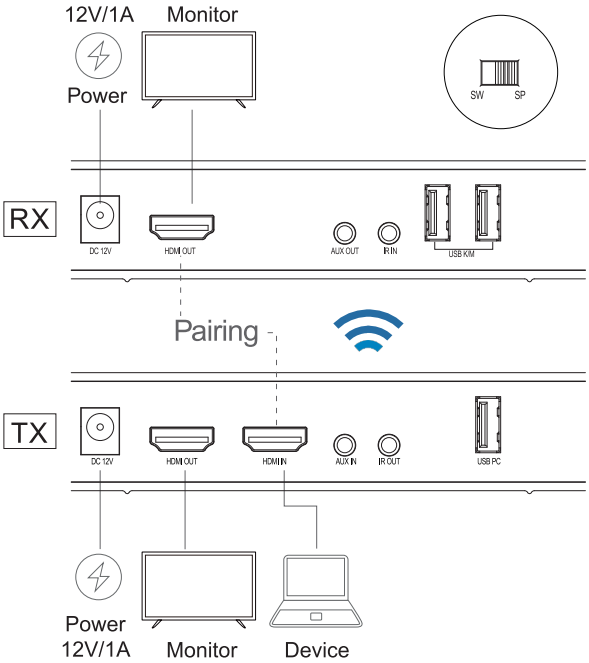
Installation for Receiver/ Transmitter

1. Splitter Mode Display (1 to 1):

(1). Position the toggle switch to Splitter Mode on both Receiver/ Transmitter.

(2). Connect power to 12V/1A and a monitor to display output on Receiver.

(3). Connect power to 12V/1A, a monitor for loopback, and a device to input on Transmitter.



*** Troubleshooting guide:**

If there's no signal on the monitor connected to RX, (1) please make sure RX and TX are both switched to Splitter mode. (2) re-Pairing, use the following method

**** Pairing method:**

(1) Set the toggle switches of the TX and RX to SP mode, and then connect to the power supply.
(2) Connect the RX and TX (HDMI-IN) to a pair through an HDMI cable. The incoming light keeps flashing until pairing is complete.

2. Switch Mode Display (1 to 1, N to 1):

(1). Position the toggle switch to Switch Mode on both Receiver/ Transmitter.

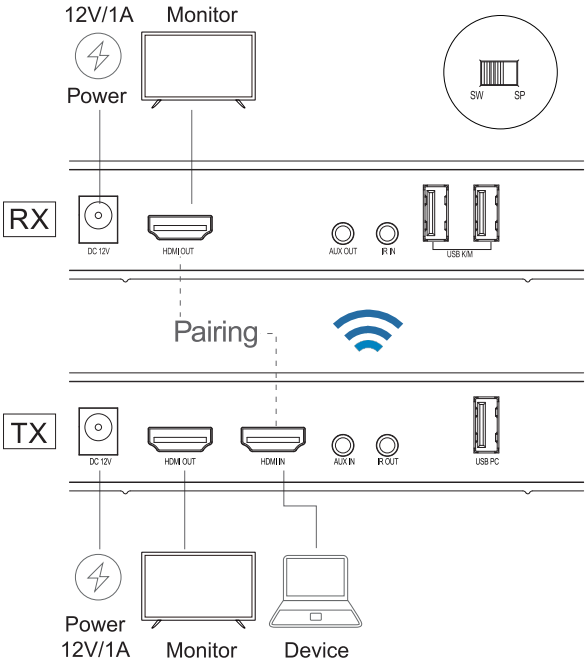
(2). Connect power to 12V/1A and a monitor to display output on Receiver.

(3). After pairing, connect power to 12V/1A, a monitor for loopback, and a device to input on Transmitter.

(4). many-to-one scenario：

A. Every Source end should be set to different signal channels.

B. Receiver end display one of the Source signals, and set to be the same signal channel as the paired Source.



***Troubleshooting guide:**

If there's no signal on the monitor connected to TW-H100AR, please make sure TW-H100AR and TW-H100AT (1) are both switched to Switch Mode, (2) have been paired together, and (3) are set to the same channel ID.

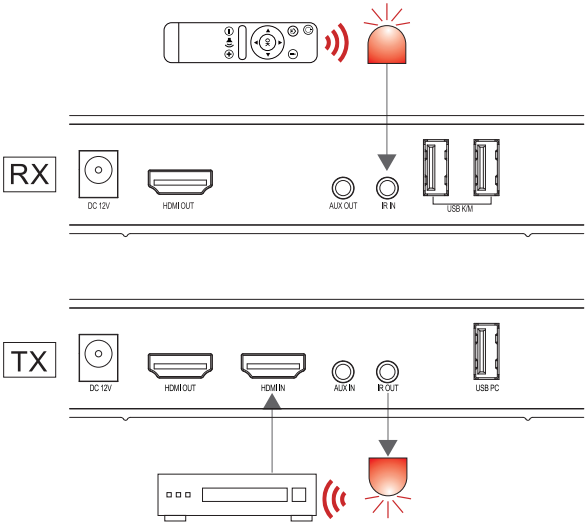
Installation of Remote Control

Support 2 instruction for remote control: IR (Infrared Ray) control, USB keyboard/mouse control.

The following instruction is only for remote control, please arrange other display set according to your need.

1. IR control

Equip IR kit on Receiver and Transmitter to control the device connected to TX/ TW-H100AT from RX/ TW-H100AR. The receiver is for IR input and the transmitter is for IR output.

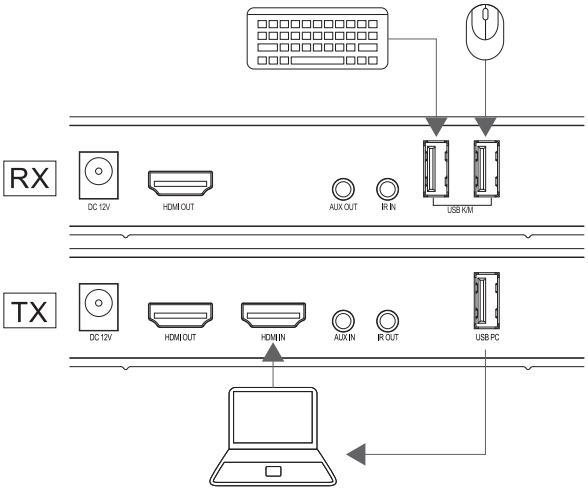


2. USB Keyboard/ Mouse control:

(1). Connect keyboard/ mouse to Receiver,

(2). Connects to your PC's USB port to Transmitter by using the included USB 2.0 A Male to A Male Cable for receiving reverse control signals of Keyboard and Mouse

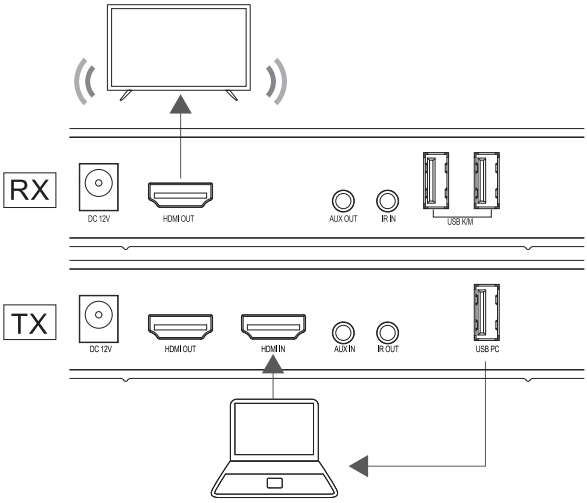
The receiver is for keyboard/ mouse input and the transmitter is for PC reverse control output.



Installationof Audio Input and Output

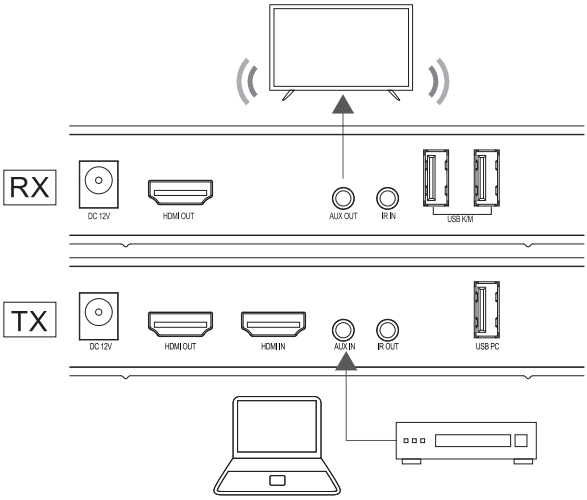
1. HDMI input and HDMI output

Audio input from the Source end HDMI port, output to the receiver end HDMI port.



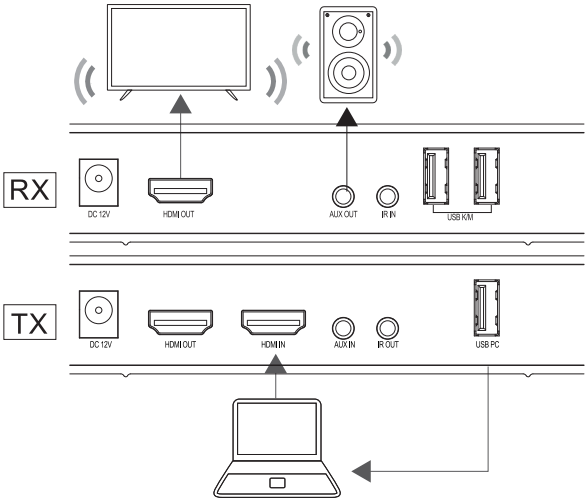
2. AUX input and HDMI output

Audio input from the Source end HDMI and AUX port, output to the receiver end AUX port.



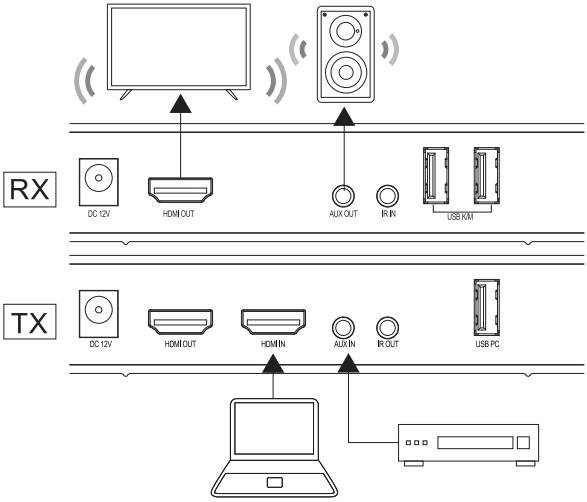
3. HDMI input and HDMI/ AUX output

Audio input from the Source end HDMI port, output to the receiver end HDMI and AUX port for dual speakers.



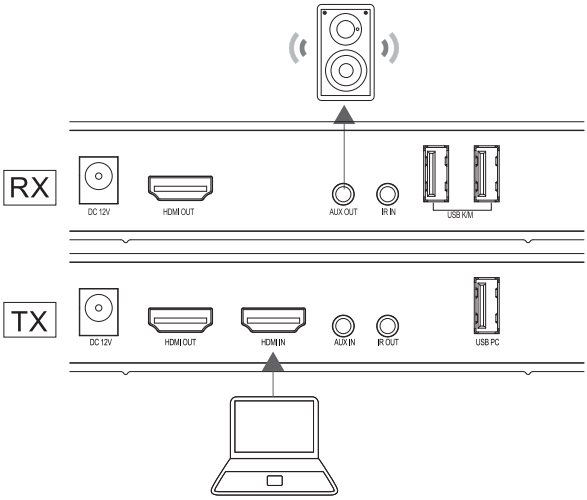
4. HDMI/ AUX input and HDMI/ AUX output

When the Source end connected HDMI and AUX port, and receiver end connected HDMI and AUX port, only the AUX port on the Source can output audio to the HDMI and AUX port on the receiver end.



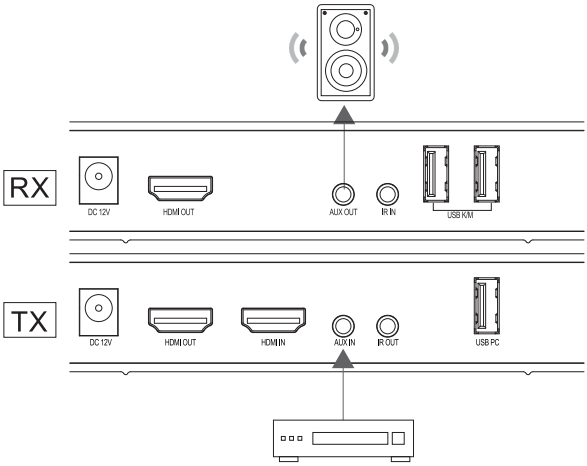
5. HDMI input and AUX output

Audio input from the Source end HDMI port, output to the receiver end AUX port.



6. AUX input and AUX output

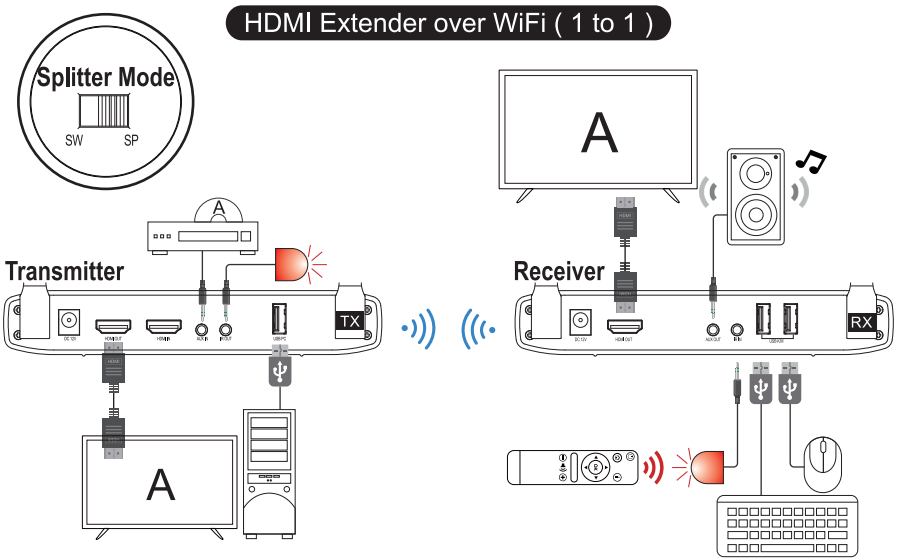
Audio input from the Source end AUX port, output to the receiver end AUX port.



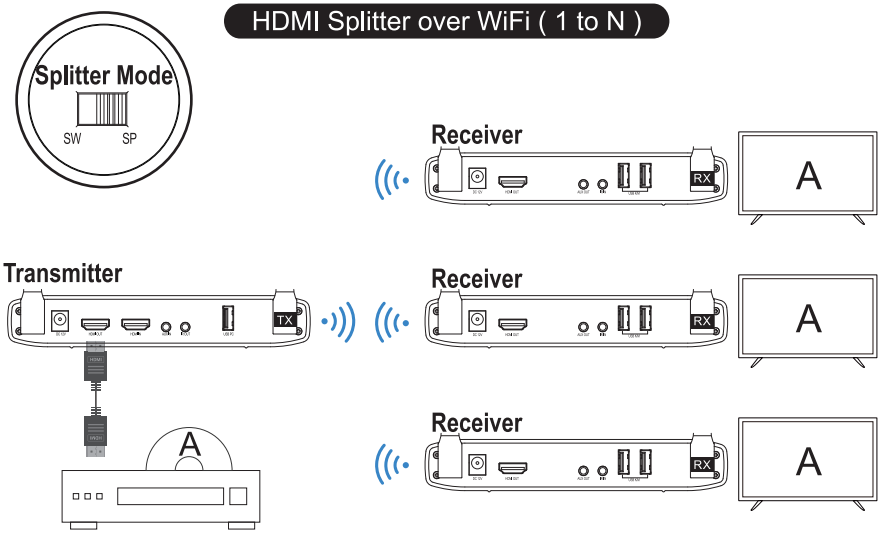
CONFIGURATION EXAMPLES

HDMI over Wi-Fi

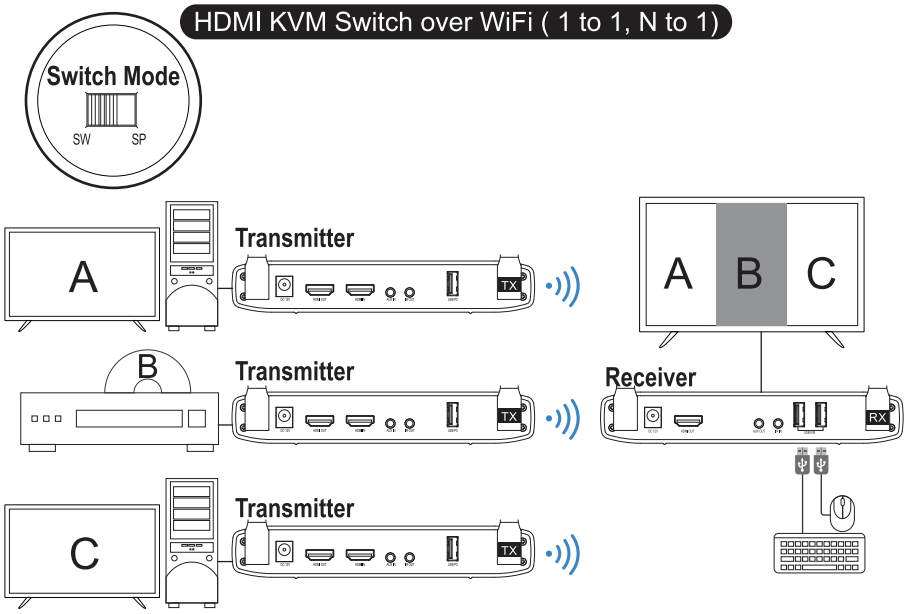
1. Extender (1 to 1)



2. Splitter (1 to N)

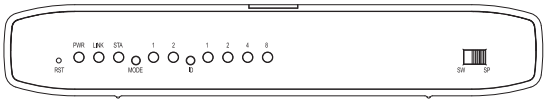


3. Switcher (1 to 1, N to 1)



Note:

The Channel Mode button should be selected the same no. on both TX and RX.



01	●	○	○	○	06	○	●	●	○	11	●	●	○	●
02	○	●	○	○	07	●	●	●	○	12	○	○	●	●
03	●	●	○	○	08	○	○	○	●	13	●	○	●	●
04	○	○	●	○	09	●	○	○	●	14	○	●	●	●
05	●	○	●	○	10	○	●	○	●	15	●	●	●	●

NOTE

1. Distances may vary depending on environment; solid objects such as steel, concrete and brick may cause shorter viewing distances or loss of signal
2. You might get interference from other wireless device or heavy power consumption house ware (ex. Wi-Fi Router, Microwave, air conditioner…). Please keep TW-H100A away from those sources of interference.
3. Please confirm your computer with HDMI and USB 2.0 Type-A ports

NOTICE

- Manufacturer reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.
- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
- TW-H100A incorporates HDMI® technology.

FCC STATEMENT

- 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.
- NOTE: 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.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.