

4K60Hz Box to Box Audio & Video wireless receiver and sender

Version 2.0

20250208

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1. Safety Instructions

- Please read these instructions thoroughly before you use the device and keep them for future reference.
- Only for indoor use.
- Do not use the product in a damp environment or near water.
- Do not expose the product to extremely high or low temperatures, strong light sources or direct sunlight.
- This product is not a toy. Keep out of reach of children.
- Connect the adapter to the mains only after you have verified that the line voltage corresponds to the value specified on the type plates.
- Never connect a power adapter if it's damaged. In such cases, please contact your supplier.
- Disconnect the AC/DC power adapter from the mains when this device is not in use for prolonged time.
- Never open the product: the device may contain parts with deadly voltage. Repairs or service should only be performed by qualified personnel.
- Improper use, self-installed modifications or repairs will void any and all warranties.
- We does not accept any product responsibility for incorrect use of the product or use other than for which the product is intended.
- We does not accept liability for any consequential damage other than the legal product responsibility.

2. Introduction

The ViewPlay 4K60 Wireless HDMI Transmitter and Receiver system integrates our most advanced codec DSP technology alongside a proprietary low-latency communication protocol, ensuring a wireless streaming experience that rivals traditional wired HDMI connections in both quality and reliability. This cutting-edge solution supports 4K60 HDR resolution, providing lossless visual quality with an ultra-low latency of just 16ms from end to end. It represents the pinnacle of Wi-Fi-based HD transmission technology, offering unparalleled stability and efficiency. This system is ideally suited for use in professional settings, including business environments, healthcare facilities, and the gaming industry, where high performance and reliability are paramount.

3. Main Features

Features	Description
UltraHD Resolution	Support 4K60 high resolution
HDR Supported	HDR10bit Supported
Real-time Codec	Real-time Encode and Decode optimized for low latency and high reliability
Almost Zero Latency	Minimum 16ms at 60fps Remark: Depending on the complexity of the video and WiFi interference, the latency may fluctuations ranging from 16ms to 48ms
Vision Lossless	Unparalleled streaming experience indistinguishable from wired connections
Audio Channel	Support audio 7.1 channels
Dolby Atmos/DTS Bypass	Supports wireless streaming Dolby Atmos/DTS to TV for decoding and playback
Auto Pairing & Auto Connection	Automatically establish connection with the most favorable Wi-Fi channel accessible to guaranteeing exceptional wireless performance
IR Extended Function	Support for infrared frequencies ranging from 38KHz to 56 KHz
USB KVM	Professional-grade USB KVM functionality for seamless operation
Wireless Standard	Built in professional 802.11ac MIMO 2T2R Wi-Fi router solution
High Stability	Proprietary protocol to ensure stable streaming in a crowded WiFi environment
High Security	Proprietary codingand transmission algorithms ensure data in high security

4. Package Included

- Transmitter x 1
- Receiver x 1
- 12V1.5A Power adapter x 2
- Type c cable for KVM x 1
- IR transmitt cable x 1
- IR receive cable x 1
- HDMI cable x 2

5. Product Specification

Transmitter specification

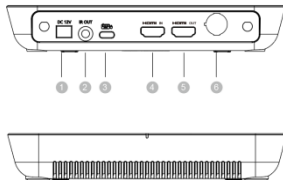
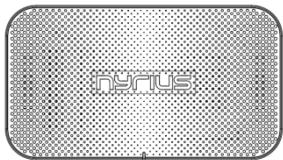
HDMI in Version	HDMI 2.0
HDCP Version	HDCP 2.2
Input Resolution	2160/60fps;2160/30fps;2160x1200/90fps; 2880x1600/90fps; 1080p/120fps;1080p/60fps;1080p/30fps;1080p/24fps; 1080i/50fps;1080i/60fps;720p/30fps;720p60fps;480p/60fps
HDMI Loop-out	Up to 4K60
Transmission Resolution	Up to 4K60
HDR Supported	HDR10 bit
Audio Channel	Support 7.1 channels
Dolby Atmos/DTS Bypass	Supports wireless streaming Dolby Atmos and DTS to TV for decoding and playback
Latency	As low as 16ms at 60fps Remark: Depending on the complexity of the video and WiFi interference, the latency may fluctuations ranging from 16ms to 48ms
Security	WPA2-AES128 Advanced Encryption Standard & Proprietary coding protocol and transmission algorithms to ensure high data security
IR Extended Function	Support 38KHz to 56 KHz wide frequency
USB KVM	Support mouse/Keyboard back control
Wireless Standard	IEEE 802.11a/b/g/n/ac 5.8G
WIFI Frequency	5.150Ghz ~ 5.825Ghz
Frequency Bands	5150-5350MHz ; 5470-5725MHz; 5725-5850MHz ; 5850-5925MHz The specific frequency bands utilized are upon the legal regulations by each country
WIFI Bandwidth	866 Mbps (5Ghz)
Bitrate	Maxium 270Mbps
Channel Width	Supports 20 MHz, 40 MHz, and 80 MHz
RF Power Amplifier	Maxmium 20dBm
Antennas	2 x 5dBi High Sensitive Antennas
Distance	About 100 meters in the clear line of sight
I/O Ports	HDMI in 2.0 x 1/HDMI out 2.0 x 1 Type c x 1/IR in x 1/IR out x 1 Power button x 1/DC x 1
LED	x 2
Power Supply	12V1.5A
Consumption	10w

Receiver specification

HDMI out Version	HDMI 2.0
HDCP Version	HDCP 2.2
HDMI out resolution	Up to 4K60
Transmission Resolution	Up to 4K60
HDR Supported	HDR10 bit
Audio Channel	Support 7.1 channels
Dolby Atmos/DTS Bypass	Supports wireless streaming Dolby Atmos and DTS to TV for decoding and playback
Latency	As low as 16ms at 60fps Remark: Depending on the complexity of the video and WiFi interference, the latency may fluctuate ranging from 16ms to 48ms
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Distance	About 100 meters in the clear line of sight
I/O Ports	HDMI out 2.0 x 1 USB x 2/IR in x 1/IR out x 1/Audio out x 1 Power button x 1 /DC x 1
LED	x 2
Power Supply	12V1.5A
Consumption	10w

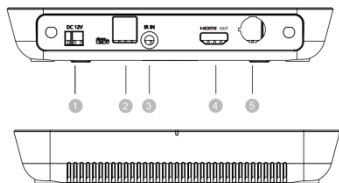
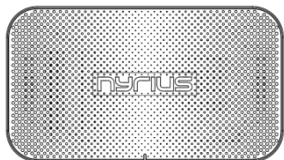
6. Product Overview

6.1 Transmitter overview



1. 12V/1.5 DC IN
2. IR in Port: Connect with IR receive cable
3. Type c: Connect with USB of video source for USB KVM function
4. HDMI in: Connect with the video source
5. HDMI out: Connect with display for Pass-through
6. Switch: Turn on/off the product

6.2 Receiver overview

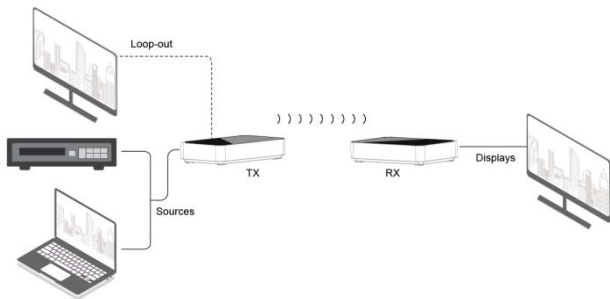


1. 12V/1.5 DC IN
2. USB x 2: Connect with mouse and keyboard for USB KVM function, you can also connect with touch panel USB port for touch panel back control
3. IR in Port: Connect with IR receive cable
4. HDMI out: Connect with display for Pass-through
5. Switch: Turn on/off the product

LED indicator of receiver

	TX system is booting on
Flashing red	TX is searching for RX
Flashing blue	Waiting for connection

7. Installation Guide



7.1 Connecting the transmitter

The transmitter sends the video signal wirelessly to the receiver in other place . Therefore, place the transmitter near your HDMI source (for example: set top box, Blu-ray player, Media Player, Media Center PC/laptop).

- 1) Connect the power adapter to the connector marked "12V1.5A" and insert the plug into the wall socket and switch the power to on.
- 2) Use an HDMI cable to connect the HDMI source to the HDMI port marked "HDMI IN" on the TX.

- 3) Optional: To continue watching TV in this room as well, use an HDMI cable (not supplied) to connect a TV to the HDMI port marked "HDMI OUT".

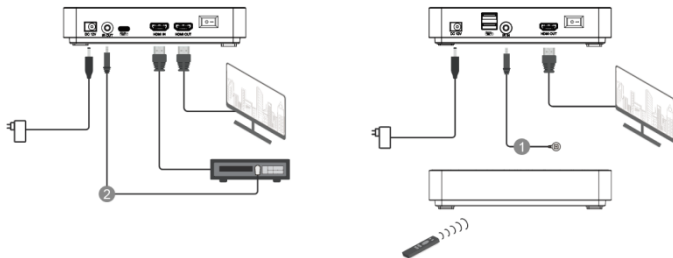
7.2 Connecting the receiver

- 1) Place the receiver in the room (bedroom, study or other room) where you want to connect the second TV or projector.
- 2) Connect the power adapter to the connector marked "12V1.5A" and insert the plug into the wall socket and switch the power to on.
- 3) Use an HDMI cable to connect your TV or projector to the HDMI port marked "HDMI OUT" on the receiver.

After power on about 50 seconds, the transmitter and receiver will connect automatically and start to transmit the video.

7.3 Connecting infrared return

7.3.1 Control the video source via infrared remote control



The wireless HDMI extender has a Built in “infrared return” that enables continued operation of the connected HDMI sources from another room.

The IR cable receives the commands sent by the IR receiver and forward it to your connected HDMI sources.

Connect the IR transmit cable (2) to the transmitter's connector marked “IR out”. Make sure that the led of the IR cable is attached exactly over the HDMI source's infrared sensor (with some equipment, this needs to be done very precisely). The exact position can be found easily by shining a torch on the front panel, searching for the IR sensor window.

Connect the IR receive cable(1) to the receiver's connector marked "IR in".

Please experiment with correct placement before final attachment of the IR led . Please note!

The adhesive strip may cause discoloration on certain surfaces, or leave adhesive residues after removal.

Once you have connected the IR cable according to the above description,

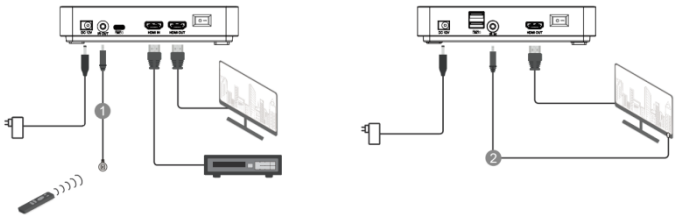
Aim your remote control towards the probe of IR receive cable and send a command.

The IR Receive cable will now send this command to the transmitter through the receiver.

The transmitter will forward this command to the IR on the transmitter. The IR then forwards the command to the HDMI source.

The HDMI source should now execute the function associated with the command sent by your remote control.

7.3.2 Control the display via infrared remote control



The wireless HDMI extender support bidirectional **infrared return**.

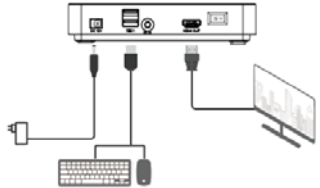
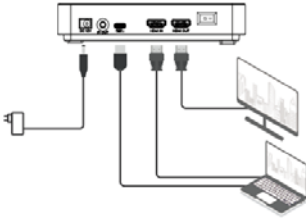
Connect the IR transmit cable (2) to the receiver's connector marked "IR out". Make sure that the led of the IR cable is attached exactly over the display's infrared sensor (with some equipment, this needs to be done very precisely). The exact position can be found easily by shining a torch on the front panel, searching for the IR sensor window.

Connect the IR receive cable(1) to the transmitter's connector marked "IR in".

Once you have connected the IR cable according to the above description, Aim your remote control towards the probe of IR receive cable and send a command to control the display.

7.4 Connecting the USB extension

In addition to an infrared return feature, the 4K wireless HDMI extender also features a built-in USB extension function. This helps you to continue to operate connected HDMI sources, such as a Media Center PC or laptop, from another room, using a mouse and/or keyboard.



1) **To the transmitter**

Using the included type c cable, connect your PC or laptop to the type c socket marked “mouse/keyboard” on the transmitter.

2) **To the receiver**

Connect your mouse and/or keyboard to the connectors marked “mouse/keyboard” on the receiver.

Once you have connected the type c cable and your mouse/keyboard according to the above description, take your mouse/keyboard and use one of the functions.

The receiver will now send this function to the HD transmitter.

The HD transmitter will now forward this function to the Media Center PC or laptop.

The Media Center PC or laptop should now execute the function of your mouse/keyboard.

Frequently asked questions (FAQs)

Q1. No (or poor) image and sound on TV or projector

Move the transmitter and the receiver in the same room to test if the connection works well, and please make sure all of below setting are correct.

- 1) Ensure that the power of the transmitter and receiver is properly connected. Ensure that all HDMI cables are connected properly or replace them.
- 2) Ensure that the HDMI source is turned ON and the correct HDMI input is selected on the TV.
- 3) Ensure that the HDMI source is set to a correct video resolution.
If necessary, consult the user manual of your HDMI source.
- 4) Disconnect the power adapters from the wall socket and reconnect them to reboot the 4K wireless HDMI extender.

Q2. No or bad connection between the transmitter and receiver

- 1) Move the HD transmitter and/or the HD receiver from the immediate vicinity of the connected HDMI sources and Wi-Fi equipment. These may affect the range.
- 2) Slightly adjusting the position of the HD transmitter and/or HD receiver may already help out.
- 3) Too much distance or obstacle between HD transmitter and HD receiver.
Try using shorter distances.
- 4) Disconnect the power adapters from the wall socket and reconnect them to reboot the 4K wireless HDMI extender.

Q3. The IR blaster doesn't work

- 1) Make sure to use the original remote control of the video source.
- 2) Please stick the IR emitter probe in the surface of IR window of the source device, if you are not sure the correct position of IR window of source device,
- 3) please refer to the manual of source device.
- 4) Please point the remote control to the IR receiver probe with 5 meters directly.
- 5) The IR extender cable based on 20KHz-60KHz remote signal protocol, which support most of the IR remote in the market, for special standard or old remote may not supported.

IC warning

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure: This equipment complies with Canada radiation exposure limits set forth for an uncontrolled environment; To maintain compliance with IC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Déclaration de l'ISED Canada :

Cet appareil contient des émetteur(s) / récepteur(s) sans licence / conformes à l'innovation RSS exempts de licence de Sciences et Développement économique Canada.

L'opération est sous réserve des deux conditions suivantes :

- 1) cet appareil ne peut pas causer d'interférences et
- 2) ce dispositif doit accepter toute interférence, y compris peut provoquer le fonctionnement indésirable de l'appareil.

Exposition aux rayonnements : Cet équipement est conforme aux radiations du Canada limites d'exposition pour un environnement non contrôlé d'exposition RF. Pour maintenir le respect des guides d'exposition RF d'IC, l'équipement doit être installé et actionné avec une distance minimale de 20cm le radiateur de votre corps. Cet appareil et ses antennes ne doivent pas être co-localisés ou en opération en conjonction avec toute autre antenne ou émetteur.

This radio transmitter [4593A-TBB85RX] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Detachable antenna:

- 4.89 dBi at 5.2 GHz, External Antenna 1&2
- 5.13 dBi at 5.8 GHz, External Antenna 1&2

The antenna of the device's WiFi is detachable.

FCC Warning Statement

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

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.

RF Exposure Statement

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm the radiator your body. This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.