

User Manual Long Range Wireless 5x2 HD Matrix Pro

GWHDMS52MB PART NO. M1275

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Table of Contents

Important Information	4
Introduction	8
Package Contents	9
System Requirements	9
Overview	10
Hardware Installation	13
> Step 1: Setup the Transmitter	13
> Step 2: Setup the Receiver	14
> Step 3: Setup the IR blaster extender cable and IR sensor extender cable	15
> Step 4: Mounting the Receiver to a Wall (Optional)	16
Basic Operation	17
Advanced Operation	22
> Naming the Input Source Devices	22
> Pairing an additional receiver (Part# GWHDRX01) to the existing transmitter (optional)	23
Supported Resolution	24
Audio Bit Rate Support	25
Specifications	26
Troubleshooting	27
Federal Communications Commission (FCC) Statement	29
CE Compliance	29
Limited Warranty	29
Contact	29

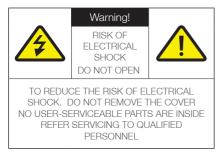
Important Information

Please take the time to read this user manual before using the Transmitter and Receiver. It contains important information about operating your Full HD video wireless kit.

Our limited warranty applies when the product is handled properly for intended use, in accordance with its operating instruction. However, the warranty may be void in the following cases:

- Repair, product modification or alteration have been performed by unauthorized service personnel
- Damages caused by accidents, including but not limited to, lightning, water, fire, or moisture
- Use of an AC adapter not compatible with the product and its voltage rating
- The model number on the product has been altered, deleted, removed or made illegible

Safety Precautions





Danger: Be careful with electricity.

- Power to the units must be switched off before any work is undertaken, such as any AV device connection or TV connection.
- Power outlet: To prevent electric shock, make sure to use the appropriate AC adapters as power supply to the transmitter and the receiver.

- Power cord: Be sure the power cord is routed so that it will not be stepped on or pinched by heavy items
- Power overloading: Avoid overloading electrical outlets or extension cords which otherwise could result in electric shock or fire
- Lightning: Disconnect the product from the power source if it is left unattended for a long period of time, and to protect the product from lightning.
- Always disconnect the power cord from the power outlet when you are not using your Full HD Video wireless kit. This reduces the risk of electric shocks or fire

🔔 Warning

- This product should not be exposed to dripping or splashing. No object filled with liquids, such as vases, should be placed on the product
- Object Entry: To avoid electric shock, never stick anything in the slots on the case or remove the cover
- Place receiver/transmitter on a flat, hard and stable surface
- Ventilation: Do not block the ventilation slots on the receiver/transmitter or place any heavy object on the top cover.
- Blocking the air flow could damage the receiver. Arrange components so that air can flow freely around the receiver. Ensure that there is adequate ventilation if the receiver is placed in a stand
- Put the receiver/transmitter in a property ventilated area, away from direct sunlight or any source of heat
- Water Exposure: To reduce the risk of fire or electric shock, do not expose the receiver/transmitter to rain or moisture.
- This is indoor solution
- Our company has the right to modify this document without any notice

Special Notice

- Never use this product nearby an aircraft or medical facility. It can cause interference or undesirable effect on the operation result
- Use of this product in the following locations may result in abnormal video and audio output (noise, blocked image... etc.).
 - 1. Product installed in the walls made of concrete
 - 2. Product is situated near the refrigerator or metal fitment
 - 3. A cluttered room where the wireless signals may be blocked
- This product has been tested and manufactured to comply with each country's safety rules. However, there is no guarantee that interference will not occur in some installation scenario. If the interference happens, increase the distance between the transmitter and receiver
- GWHDMS52 may interfere 5GHz wireless devices, such as routers or other wireless devices. Therefore, if you have an 802.11n router, configure it to the 2.4 GHz band rather than the 5GHz band
- Optimal range between GWHDMS52 transmitter and receiver is between 2 and 20 meters within line of sight

System Warning FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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: Using the System in the US

- Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the 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
 - this device must accept any interference received, including interference that may cause undesired operation.

RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

This device is operation in 5.15 – 5.25GHz frequency range, then restricted in indoor use only, Outdoor operations in the 5150~5250MHz is prohibit.

This device is slave equipment, the device is not radar detection and not ad-hoc operation in the DFS band.

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210. 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 Statement:

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

Caution:

- the device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5470~5600MHz, 5650~5725MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized. This device has also been evaluated and shown compliant with the IC RF Exposure limits under mobile exposure conditions. (antennas are greater than 20cm from a person's body).

IMPORTANT NOTE:

 In the event that these conditions can not be met (for example certain laptop configurations or co-location with another transmitter), then the Canada authorization is no longer considered valid and the IC ID can not be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate Canada authorization.

French Translation Canada, avis d'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-

003 et RSS-210.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition aux RF d'IC dans des conditions d'exposition à des appareils mobiles (antennes sont supérieures à 20 cm à partir du corps d'une personne).

NOTE IMPORTANTE:

Déclaration d'exposition aux radiations: Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

- les dispositifs fonctionnant dans la bande 5 150-5 250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux;
- ii. De plus, les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5 250-5 350 MHz et 5470~5600MHz, 5650~5725MHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs LAN-EL.

En vertu de la réglementation de l'industrie du Canada, cet émetteur de radio ne peut fonctionner à l'aide d'une antenne d'un type et un maximum (ou moins) Gain approuvé pour l'émetteur par Industrie Canada. Pour réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisis afin que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.

Wireless HDMI

IOGEAR's Long Range Wireless 5x2 HD Matrix Pro is the first to send full uncompressed HD 1080p, connects up to 5 source devices and allows you to switch and independently select any source between 2 HDTVs.

The solution consists of a Wireless Transmitter and a Wireless Receiver with connections for HDMI and Component, along with a loop through (local port) for an advanced 2 HDTV set ups.

Wireless Matrix

The Long Range Wireless 5 x 2 HD Matrix Pro is setting a new standard in wireless connectivity, flexibility, convenience, and decor. The wireless matrix feature is the biggest breakthrough in wireless A / V solutions today. This means you can watch cable TV in the living room while the bedroom independently select a Blu-ray movie to watch wirelessly at the same time. It's capable of streaming Full HD 1080p with support for 3D content and digital audio up to 200 feet away within the home or desired set up.

Infrared (IR)

Supports IR pass-through - Enables wireless control of your source devices and helps consolidate your HD A / V electronics, such as a DVD / Blu-ray players, DVR / Cable boxes, Game consoles and computers to design your own custom entertainment space.

Home Design

Take re-decorating, retrofitting and designing to a new level of creativity and convenience. Ever wanted to set up another HDTV in the Bedroom, Kitchen, Den or patio? Now you can have the wireless HDTV, if you have power you can have HDTV. Set up the HDTV in the back patio for the big sporting event while the kids play video games or watch a Blu-ray movie in the living room!

The Long Range Wireless 5 x 2 HD Matrix Pro does not require a line-of-sight placement, keeping home theater devices neatly out of sight, which enables a quick, simple, and flexible wireless HD or 3D A / V solution.

Package Contents

- 1 x Wireless Transmitter
- 1 x Wireless Receiver
- 2 x Remote Controls w/ batteries
- 1 x Component Adapter Cable
- 1 x IR Blaster Cable (Transmitter)
- 1 x IR Sensor Extender Cable (Receiver)
- 2 x Power Adapter
- 1 x HDMI Cable
- 1 x User's Guide
- 1 x Warranty Card

System Requirements

Display

- 2 HDTVs
- HDMI input per HDTV

Media Source

- 4 HDMI output
- 1 Component output

Cables

- HDMI Cables (1 included)
- Component Cable (not included)
- RCA Audio Cable (L&R, not included)

Transmitter

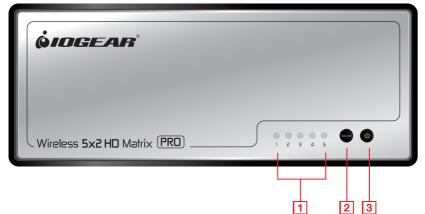
Top view

1. Source LEDs

These LED indicators lights solid green to show current input.

- 2. **Source Selection Button** Press to switch the source inputs connected to the transmitter.
- 3. Power Button with LED Indicator

Press to turn the transmitter on / off. The indicator in the power button lights solid green when the power is on, and turns red when in standby mode.



Back View

- 1. Power Adapter DC IN
- 2. IR OUT Blaster Extender Jack Plug the IR Blaster Cable into the IR OUT jack of the transmitter.
- 3. Component IN (Optional) Connects the Transmitter to source de
- Connects the Transmitter to source device Component port with the provided Adapter Cable. 4. HDMI IN

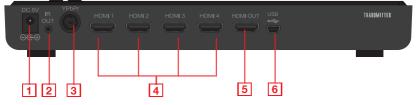
Connects the Transmitter to High-definition audio / video devices via an HDMI cable.

5. **HDMI OUT**

Connect to an HDTV via an HDMI cable.

6. Mini USB Port

For firmware upgrade purpose only.



Receiver

Front View

- 1. **Power Button with LED Indicator** Press to turn the receiver on / off. The indicator in the power button lights green when the power is on, and turns red when in standby mode.
- 2. Source Button Press this button for Source device input selection.
- Video status LED For video input status indication. Please refer to page 16, section 7 for the detailed information.
- 4. Wireless status LED For wireless link status indication. Please refer to page 16, section 7 for the detailed information.



Back View

- 1. **Power Adapter DC IN** Connect to receiver's power adapter.
- HDMI OUT Connects the Receiver to an HDTV via an HDMI cable.
- 3. IR IN

Available to connect IR sensor extender cable.



Remote Control

1. Power on / Power off Buttons

Press Power ON to turn the Transmitter & Receiver ON. Press Power OFF to turn the Transmitter and Receiver OFF. When both Transmitter & Receiver Power LEDs are red, press Power ON to the receiver to wake up both the Receiver and Transmitter automatically.

2. INFO Button

Press this button to the Transmitter or Receiver to display the On-Screen Display (OSD) for system related information on the HDTV.

3. Source Button

Press to select the audio / video source inputs to the Transmitter or Receiver. Press OK to switch to the source input selected.

4. **Up and Down Arrow Buttons** Press to select the audio / video source inputs for transmitter display. Press OK to switch to the source input selected.

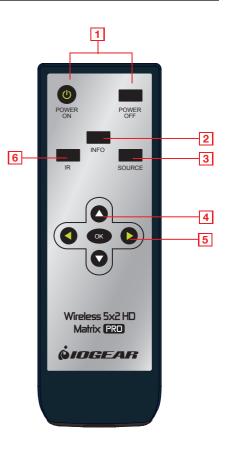
 Left and Right Arrow Buttons
 Press to select the audio / video source inputs for receiver display. Press OK to switch to the source input selected.

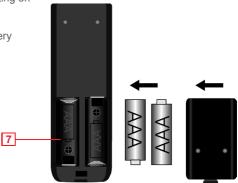
6. IR Button

Press to switch the IR Blaster frequency to meet Source device's requirement. It can switch the IR Blaster frequency from Auto to 38KHz to 56KHz recurring.

7. Battery Compartment

- Remove the remote control battery door by pushing the bottom clip in and lifting on the battery door.
- Place the two AAA batteries into the remote control and replace the battery door until it snaps in place.



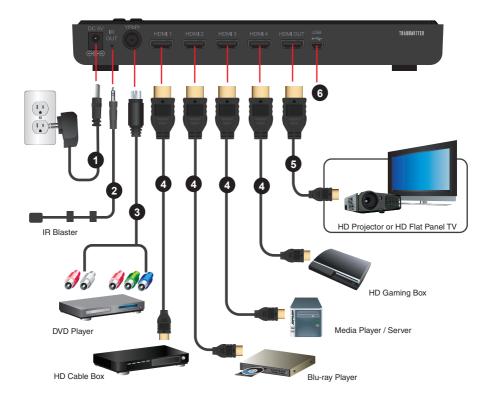


Hardware Installation

Step 1: Setup the Transmitter

Connect up to 5 Audio / Video Source Devices and 1 HDTV to the transmitter:

- Connect the supplied power adapter to the DC IN jack on the transmitter and a wall socket. The LED indicator in to POWER button lights green when it is connected to power.
- 2. Plug in the provided IR blaster cable. Please refer to page 11, step 3A for the detailed setup instruction.
- 3. Connect to a source device through the Component in by using the Component (YPbPr) Adapter cable.
- 4. Connect up to 4 High-Definition (HD) Audio / Video sources via HDMI IN with HDMI cables.
- 5. Connect the transmitter's HDMI OUT to the local HDTV's HDMI IN port with an HDMI cable.
- 6. For firmware upgrade purpose only.



Step 2: Setup the Receiver

- 1. Connect the supplied mini USB power adapter to the DC IN jack of the receiver and a wall socket. The POWER LED indicator lights green when the receiver is connected to power.
- Connect an HDMI cable to the HDMI OUT port on the receiver and to the HDMI IN port on the HDTV (or and HD projector). Press the Source button on the receiver or the left or right arrows on the remote to select the appropriate HDMI video input.
- 3. Plug in the IR sensor extender cable provided. Please refer to page 11, step 3B of the Hardware Installation section.



Step 3: Setup the IR blaster extender cable and IR sensor extender cable

The IR relays infrared commands from your remote control to your device. Users can control their A / V devices by pointing their remote control to the receiver or IR sensor extender cable. (IR distance from remote to receiver / IR sensor cable is 30 feet line of sight.)

A: Transmitter

- 1. Plug the IR Blaster cable into the IR OUT jack on the transmitter.
- 2. Apply the IR blaster head directly over the eye of the IR sensor on your HD audio / video device. This allows the remote controls to your devices to work from another room when using the wireless receiver.



Note: Transmitter and source devices connected to the Transmitter within the local location must all be in line of site for IR control.

B: Receiver

- 1. Place the wireless receiver out of sight and use the IR sensor extender to control your devices with the remote control.
- Plug the IR sensor extender cable into the IR IN jack on the receiver and place the sensor on the front of the TV for convenient operation.



Note: In some instances, the IR sensor on your source device may be difficult to find. To help simplify this process, cut a piece of cardboard the same size as the front panel of your source device and place a 1 inch hole in the middle of the cardboard. Power on your source device and play a movie or other video content. Place the cardboard hold over the left side of the source device and using the source device's remote control directly over the cardboard hole, press the pause button repetitively while gradually moving the cardboard hole from left to right making sure to keep the remote control's beam directly over the cardboard hole. Once the source device recognizes the pause button being pressed, you have located the position of the remote control IR sensor on the source device and that is where you will place the IR Blaster's sensor. The IR sensor supports 38KHz, 47KHz and 56KHz (NEC, RC5, RC6) remote signal protocol.

Step 4: Mounting the Receiver to a Wall (Optional)

- 1. Refer to the drawing at the right that has a relative position of the main holes that will be needed to be drilled into the wall.
- 2. Drill two ¼" pilot holes.

- Insert the supplied two Anchors into the wall. If necessary, use a small hammer to lightly tap the anchors flush to the wall.
- 4. Insert two screws into the anchors. Leave ¼" length for mounting the Transmitter, 5/8" for the Receiver.
- 5. Place receiver main holes over the protruding screws and slide down into position

Charlington

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Basic Operation

1. After the power adapter is plugged into the electrical outlet, the device will turn ON automatically.



2. If the transmitter is in Power on mode (Power LED on the transmitter is green), press the power button on transmitter and then the transmitter and receiver will enter the standby mode simultaneously. You may also POWER OFF the transmitter with the remote control.

Please note that the HDMI out on the transmitter will always be ON even when the transmitter is in standby mode.

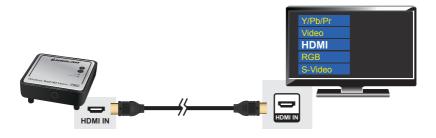


3. Power ON all connected displays (i.e. TV, monitor, projector) and source devices (i.e. cable box, Blu-ray player, game console).

 During warm-up, the transmitter's and the receiver's wireless status LED will blink green until the signal link between the transmitter and the receiver is established. It will take approximately 15 ~ 20 seconds for system to fully boot-up successfully.



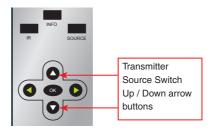
5. Ensure your TV or projector is in "HDMI input" mode.



6. When the GWHDMS52MB is powered on for the first time, the input default is set to Source 1. Note that anytime a source input is switched, it will take approximately 15~20 seconds for the image to appear. There are 3 ways to switch between connected source devices: A. Press the SOURCE button on the top of the receiver or transmitter to switch the source inputs until you see the desired video program being broadcasted from your source device.



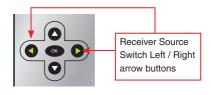
- B. Remote Arrow Keys Switching
 - Transmitter side: By pressing the "Up" or "Down" arrow keys on the remote control, it will pop up the on-screen display and allow you to cycle through each input. Stop on the one you wish to watch and it will switch to that direct input / source device.



1080p

OSD Displayed:

- Receiver side: By pressing the "Left" or Right" arrow keys on the remote control, it will pop up the on-screen display and allow you to cycle through each input. Stop on the one you wish to watch and it will switch to that direct input / source device.
- C. Remote Control Source Button: Press the **SOURCE** button on the remote control to directly switch between connected input sources. Keep pressing the SOURCE button until the desired input source is selected.



OUT HDMI



Note: Pressing "Up" or "Down" on receiver side or pressing "Left" or "Right" on transmitter side will not initiate switching.

7. If operation is normal, the POWER / Wireless status LED and Source Status LED will glow in solid green. Please refer to the LED status table below that contains detailed LED indicator and OSD descriptions for the transmitter and receiver:

Item / Mode	Status Description	Tx / Rx Power LED	Tx/Rx Source / Video LED	Rx Wireless LED	OSD Display
Standby	For power saving mode.	Static Red	off	off	
Initial Boot up / Warm up	It will spend 15 ~ 20 seconds for system boot up.	Tx Blinking Green Rx Static Green	Blinking	Blinking	4 levels looping
Searching available channels	Continuing search available channels If system can't establish link over 80s after initialization.	Tx Blinking Green Rx Static Green	Blinking	Blinking	Cooping display these two OSD
	No input from selected source (Note B)	Static Green	Blinking (Quickly)	Static Green	≝ ⊗
Wireless linked Mode	Video format not recognized (Note C)	Static Green	Blinking (Slowly)	Static Green	[©] ▲ ●
	Video format is recognized	Static Green	Static Green	Static Green	-

Notes:

- A. If the RF connection boot-up has exceeded 80 seconds and still not established a link between the transmitter and receiver, it is due either to lost link or the transmitter is most likely out of range. You may have to verify the range and adjust or shorten the distance between your HDTV set with the transmitter and the receiver. The maximum video transmission range for 1080p content is up to 200 feet in line of sight (LOS). The minimum range is 6.5 feet.
- B. Please make sure the source device has been powered ON and the signal output is set to HDMI out; also try to re-plug the HDMI cable to make sure the HDMI connector is seated properly.
- C. If there is no video displayed and OSD display shows "Not Supported Format", this is an indication that the video resolution or frame rate from the computer is not supported, please refer to page 20 to switch to a supported video resolution.
- D. If you have more than one pair of this product, each transmitter and receiver should be at least 6.5 feet away from one another.

- E. On Screen Display (OSD) vs. Remote Control Instruction
 - (1) In Active mode, press the **POWER** button on the top of receiver or transmitter or press the remote control's Power button and point it to the receiver or transmitter, both receiver and transmitter will enter Standby mode and transmitter's HDMI out remains on.

OSD Displays: (Display 3secs and then enter Standby mode.)



(2) Press the INFO button on the remote control to display signal quality, source, channel and resolution information for user reference. Press the INFO button again to exit the INFO OSD. OSD Displays:



(3) Press the **SOURCE** button on the remote control or on the top of transmitter (or receiver) for audio / video source input selection. OSD Displays:



- (4) Press the IR button and then the "Up" and "Down" keys on the remote control to change the IR Blaster frequency. The IR frequency can be switched from Auto to 38KHz, and to 56KHz recurring. Note that the IR Blaster frequency default setting is Auto.
- (5) Press once for current IR frequency status display.

OSD Displays:



= AUTO

Press IR key again to switch IR blaster frequency. OSD Displays:



= 38KHz

Advanced Operation

Naming the Input Source Devices

1. Press and hold the Source button on the top of the transmitter for over 3 seconds. A source naming OSD will appear on the screen:



 The current source input may be named by pointing the remote control at the transmitter and using the remote control û € keys to change the letters or numbers; ⇔keys to move the cursor.



3. After completing source naming, please press the source key on the remote control or on the top of the transmitter housing to confirm and save the new source name.





4. You will see the new source name on the OSD for both transmitter and receiver each time the source with the new name is selected.

Pairing an additional receiver (Part# GWHDRX01) to the existing transmitter (optional)

Enter Pairing Mode for the Transmitter:

- 1. Unplug the Power adapter from the transmitter.
- 2. Press and hold down on the Power button on the transmitter.
- 3. Plug in the Power adapter to the transmitter.
- 4. Keep holding down on the Power button on the transmitter until the power LED is blinking orange indicating that the transmitter has entered the Pairing mode.



Enter Pairing Mode for the Receiver:

Use the same operation method as the transmitter to enter pairing mode for the receiver.



Once the receiver enters the pairing mode, the OSD shows:

Searching...

Both transmitter and receiver will enter the Pairing mode and it will search and pair automatically. The OSD shows:

Adding GWHDMS52MB...

Once the pairing is finished, both transmitter and receiver will re-boot and link to each other automatically.

Supported Resolution

If the SOURCE LED continues to blink in green (slower than "no signal" mode); OSD display: A (), and there is no video displayed or the video quality suffers, it indicates that the video frame rate from your A / V source device is not supported. Ensure that the consumer timing of your HDMI device is compliant with the standard listed below:

2D Video Format Timings	Resolution	Support		
Primary CEA Video Timing				
640x480p @ 59.94 / 60Hz		YES		
720x480p @ 59.94Hz	480p	YES		
720x480p @ 60Hz		YES		
720x576p @ 50Hz	576p	YES		
1280x720p @ 50Hz	700m	YES		
1280x720p @ 59.94 / 60Hz	720p	YES		
1920x1080i @ 50Hz	1000	YES		
1920x1080i @ 59.94 / 60Hz	1080i	YES		
1920x1080p @ 50Hz	1000- / 00	YES		
1920x1080p @ 59.94 / 60Hz	1080p / 60	YES		
Secondary CEA Video Timing				
1920x1080p @ 23.98 / 24Hz		YES		
1920x1080p @ 25Hz	1080p / 24	YES		
1920x1080p @ 29.97 / 30Hz		YES		
VESA Timing (DVI only)				
640x480 @ 59.94 / 72.809Hz	VGA	YES		
800x600 @ 60.317 / 72.188Hz	SVGA	YES		
1024x768 @ 60 / 70.069Hz	XGA	YES		
1280x768 @ 60 Hz	WXGA	YES		
1280x1024 @ 60 Hz	SXGA	YES		

If the Source / Status LED continues to blink green (slower than "no signal" mode); or OSD display shows 🕎, please check that both TVs connected to the transmitter and receiver support 3D video format and try to switch the 3D video format to one of the 3D timings listed below.

Mandatory CEA 3D Video Format Timings	Support
1280x720p @ 50Hz Top-and-Bottom	Yes
1280x720p @ 50Hz Frame packing	Yes
1280x720p @ 59.94 / 60Hz Top-and-Bottom	Yes
1280x720p @ 59.94 / 60Hz Frame packing	Yes
1920x1080i @ 50Hz Side-by-Side (Half)	Yes
1920x1080i @ 59.94 / 60Hz Side-by-Side (Half)	Yes
1920x1080p @ 23.98 / 24Hz Top-and-Bottom	Yes
1920x1080p @ 23.98 / 24Hz Frame packing	Yes

Audio Bit Rate Support

- Digital Audio from HDMI inputs: Up to 6Mbit/s bit-rate support.
- Support AC3 and DTS.
- 2-channel PCM: 16~24 bits audio sample with 32~96KHz sampling rate as below:

2channel PCM	32KHz	44.1KHz	48KHz	96KHz
16 bits	YES	YES	YES	YES
24 bits	YES	YES	YES	YES

Specifications

Supported Video Resolutions	HDMI Input	3D, 1080p, 1080i, 720p, 576p, 480p		
	Component Input	1080i, 720p, 576p, 576i, 480p, 480i		
Supported Audio	Digital Audio	Up to 6 Mbps AC3 and DTS		
Formats	Analog Audio	48KHz and 24-bit Per Sample		
Transmission Distan	ice	The maximum video transmission range is 200ft (the minimum range is 6.5ft). Line of sight (LOS) scenarios		
Remote Control Rai	nge	30 feet LOS		
System Latency		Very low latency (<1ms)		
Antenna		High Performance Internal Antennas		
Operating Frequence	ies	4.9~ 5.9GHz (Include non-DF	S and DFS Frequency Bands)	
Power Supply		100~ 240V AC in, 5V DC out Power Adapter		
Operating Temperat	ure	0~40°C		
Inte	rfaces	Transmitter (Tx)	Receiver (Rx)	
A / V Interfaces	HDMI Input	Four (Type A)	-	
	Component Input	One w/ specific adapter cable		
	HDMI Output	One (Type A)	One (Type A)	
Control Signal	IR Sensor	YES	YES	
Interfaces	IR Blaster Extender	2.5mm Jack	-	
	IR Sensor Extender	-	2.5mm Jack	
Power Interface	Power Input	5V DC Jack	5V mini USB	
Switches	Power Switch	YES (One Push Button)	YES (One Push Button)	
	Source Switch	YES (One Push Button)	YES (One Push Button)	
LEDs	Power LED	1 x LED (Two Tone: Green / Red)	1 x LED (Two Tone: Green / Red)	
	Source LED (Tx) Status LED (Rx)	5 x Green LEDs	2 x Green LEDs: Video signal, Wireless signal	
Dimensions inches (mm)		9.2"(w) x 3.8"(h) x 1.28" (h) (234mm x 96.5mm x 32.5mm)	3.74"(w) x 3.74"(l) x1.4"(h) (95mm x 95mm x 35.5mm)	

Troubleshooting

1. **Problem:** The power indicator LED doesn't light up. **Solution:**

Check the power adapters of the Transmitter / Receiver to see if they are properly inserted into a functioning power outlet.

- **2. Problem:** No video is displayed on your TV screen. **Solution:**
 - Verify that the proper cables have been selected and installed between the transmitter input and your High-Definition device output.
 - On your TV side (connected to the Receiver), select the HDMI as input source.
 - Verify the status of POWER LED and SOURCE / Status LED indicator as below:

Power LED Flashing in Green OSD displayed: (4 levels looping)	 Ensure that the transmission range between the transmitter and the receiver is NOT over 200 feet (LOS - line of sight) transmission distance. Try to move the transmitter closer to the receiver.
POWER LED in solid Green + Slow and Flashing SOURCE LED OSD displayed:	 Ensure that your video resolution and frame rate is recognized, supported and within the transmission range. Connect the source device to your TV to check and modify the video format compatibility. Check if the video resolution from your display is set to 1080p, 1080i, 720p, 576p or 480p resolution. Please refer page 20 for the detail supported Resolution.
POWER LED in solid Green status LED Flash Quickly OSD displayed :	 Ensure the proper cables are connected between the transmitter and your A / V source devices. Ensure your source devices connected to the transmitter are powered on. Ensure the proper cables are connected between the receiver and your 2nd HDTV near the receiver.

3. **Problem:** Poor picture quality or intermittent video **Solutions:**

- Check if your video resolution with HDMI input from your device is either 1080p, 1080i, 720p, 576p or 480p. Please refer to page 20 where the video frame rate from your device GWHDMS52 can support is defined.
- Ensure that the transmission distance is less than 200 feet (LOS)
- Barriers Consider an installation plan that has the least numbers of barriers (walls, panels, beams) possible between the transmitter and receiver.

*Distances, quality and signal may vary depending on environment; solid objects such as steel, concrete and brick may view shorter distances or complete loss of singal.

4. Problem: No audio

Solution:

- Check your TV's volume is properly set and not set in "MUTE" mode.
- Check if your source player's audio volume has been turned up.
- Ensure that the bit rate of audio from the source device can be supported by GWHDMS52MB. Please refer to the details in page 21 Audio Bit Rate Support.
- 5. Problem: IR Blaster can't control Source device. Solution:
 - Check where is IR sensor is located on the Source device. Make sure that the IR Blaster sensor is close and straight in front of the Source device's IR sensor. Please refer Installation, step 3 for reference setup.
 - Change IR Blaster frequency to meet Source device's requirement. See the page 11 for the IR blaster frequency switch.
- 6. Problem: No 3D video output. OSD displayed: Tx 💷 and/or Rx

Solutions:

Check if both TVs (includingTx and Rx side) support 3D video format. If either one of the TVs only supports 2D format, then 3D output might not be supported.

- If user wants to display 3D video on HDTV which supported 3D video, please turn
 off the 2D HDTV and RE-power On the 3D HDTV. Then set the source player to 3D
 video format output for the 3D display.
- Check the video output setting of Source player (ex. Blu-ray Disc, PS3..etc.). If the video output setting of Source player is 3D video format, it might produce a display on the HDTV which not supports 3D format.
- 3D video format do not support on current equipments status. If user wants to display 3D video on HDTV which supported 3D video, please turn off 2D HDTV and RE-power on 3D HDTV. Then set the source player to 3D video format output for the 3D display.
- 3D video format do not support on current equipments status. Please switch the 3D video format to HDMI 1.4a 3D format. Please check page 21 for a list of all supported 3D format of this product.

Federal Communications Commission (FCC) Statement

The user is cautioned that this device should be used only as specified within this manual to meet RF exposure requirements. Use of this device in a manner inconsistent with this manual could lead to excessive RF exposure conditions.

CE Compliance

This device has been tested and found to comply with the following European Union directives: Electromagnetic Capability (2004/108/EC), Low Voltage (2006/95/EC) and R&TTED (1999/5/EC).

Limited Warranty

WE'RE HERE TO HELP YOU! NEED ASSISTANCE SETTING UP THIS PRODUCT?

Make sure you:

- 1. Visit www.iogear.com for more product information
- 2. Visit www.iogear.com/support for live help and product support

Warranty Information

This product carries a 1 Year Limited Warranty. For the terms and conditions of this warranty, please go to http://www.iogear.com/support/warranty

Register online at http://www.iogear.com/register

Important Product Information

Product Model _____

Serial Number

Contact

IOGEAR iogear.custhelp.com support@iogear.com www.iogear.com 19641 Da Vinci, Foothill Ranch, CA 92610



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