



5GHz 330Ft Wireless HDMI Extender Owner's Manual

Model: WAV5G100M-DA

Got a Question or Need Help?

Email our technical support team at: support@miccatron.com for personalized assistance with the setup and use of this product. Please visit our product information website www.miccatron.com for the following:

- Product Updates
- User's Manuals
- Troubleshooting Wizard
- Technical Support Request

Warranty: 1 Year

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1 IMPORTANT

1.1 IMPORTANT SAFETY INSTRUCTIONS

Read these instructions – All the safety and operating instructions should be read before this product is operated.

Keep these instructions – The safety and operating instructions should be retained for future reference.

Heed all warnings – All warnings on the appliance and in the operating instructions should be adhered to.

Follow all instructions – All operating and use instructions should be followed.

Do not use this apparatus near water – The apparatus should not be used near water or moisture – for example, in a wet basement or near a swimming pool, and the like. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Unplug the apparatus during lightning storms or when unused for long periods of time.

Clean only with dry cloth.

Install in accordance with the instructions in this manual. Only use attachments/accessories specified in this manual.

Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not install this equipment in a confined or building-in space such as a book case or similar unit, and remain a well ventilation conditions at open site.

Use with DC 5V/2A power adapters only.

1.2 FCC Statement

FCCID: 2ADXC18WMD3AA

1. 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.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

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

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.

FCC Radiation Exposure Statement

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

2 Introduction

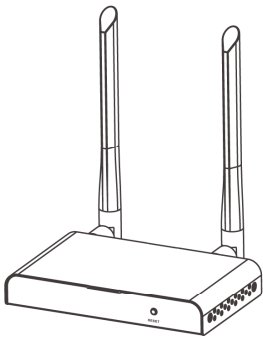
Thank you for your purchase! The Micca wireless HDMI extender transmits high quality video and audio up to 100M on the low-interference 5GHz band, along with IR remote control signal pass-through. It is the perfect solution for home entertainment, meeting or conference rooms, and multimedia education applications.

2.1 Feature Highlights

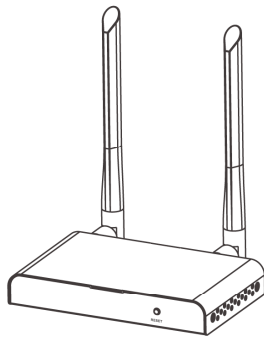
2.1.1 Features

- Tough and durable metal housing with removable mounting brackets
- Plug and play easy installation with no complicated setup or pairing needed
- 5GHz low-interference radio band, up to 330ft (100M) open line-of-sight transmission
- Supports HDMI resolution up to 1080p/60Hz
- Dual antenna design for higher sensitivity and noise rejection
- IR remote control signal pass-through with 20-60kHz compatibility

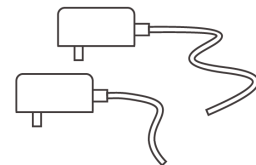
2.1.2 Package Contents



HDMI Transmitter



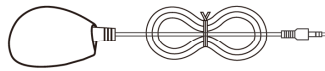
HDMI Receiver



5V/2A Power Adapter (x2)



IR Blaster Cable



IR Receiver Cable

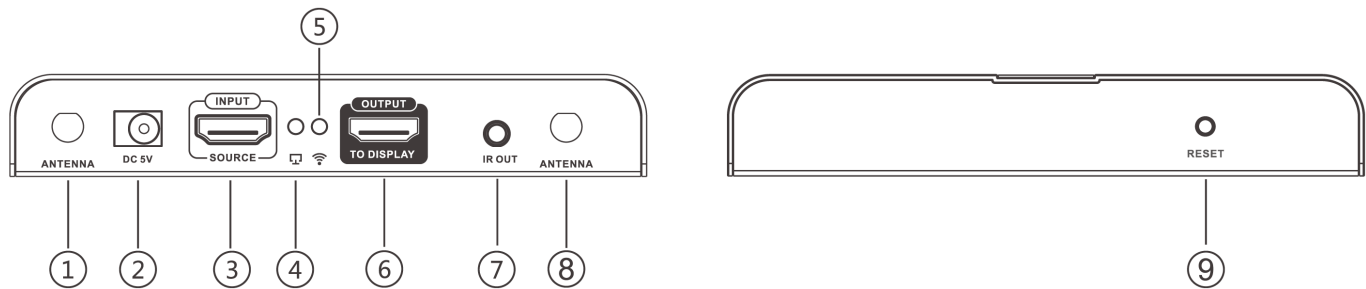


User's Manual

Note: All information contained in this manual was correct at the time of publication. However, as our engineers are always updating and improving the product, your device may have a slightly different appearance or modified functionality than presented in this manual. These changes will be reflected in future revisions of this manual.

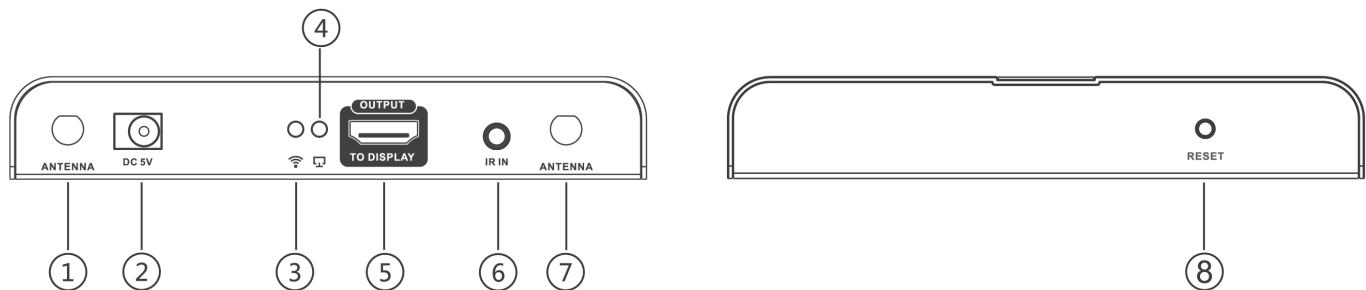
3 Product Overview

3.1 Connections and Controls - Transmitter



	Name	Description
1	Antenna	Antenna attach point
2	Power	Power jack for 5V/2A adapter
3	HDMI Input	HDMI input jack, supports up to 1080p/60Hz input
4	HDMI Status	HDMI signal status light, turns on when HDMI signal is present
5	Wireless Status	Wireless status light, blinks when the transmitter and receiver are attempting to make connection, turns solid when connected
6	HDMI Output	HDMI output jack, supports up to 1080p/60Hz
7	IR Blaster	Connect the IR Blaster cable to broadcast remote control signals
8	Antenna	Antenna attach point
9	Reset	Restart the transmitter unit

3.2 Connections and Controls - Receiver

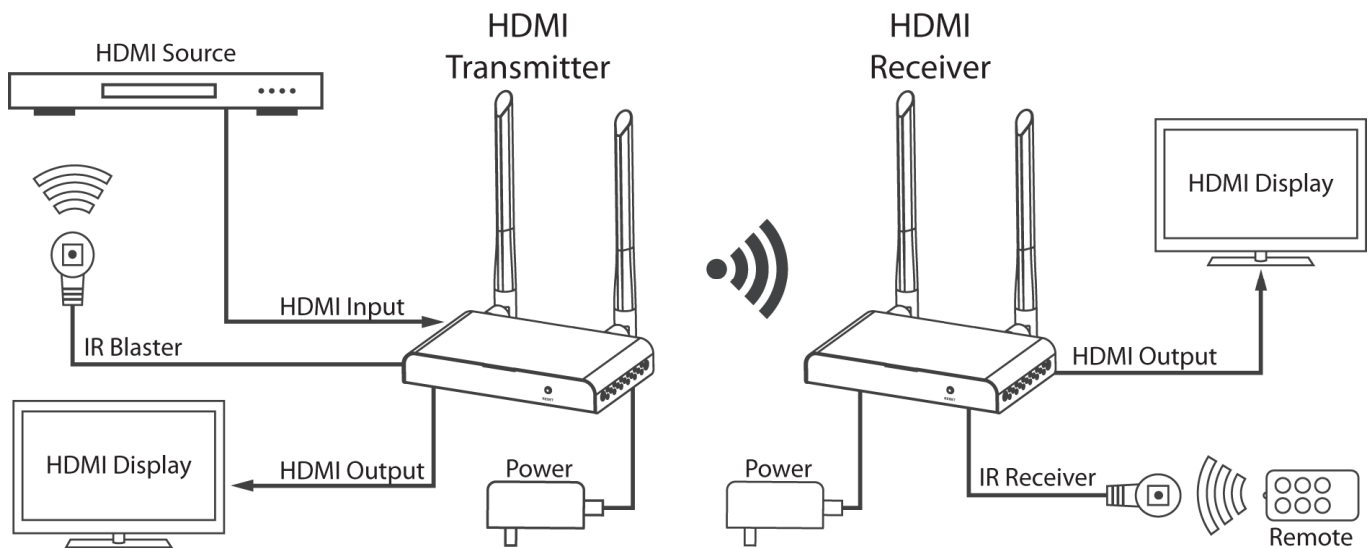


	Name	Description
1	Antenna	Antenna attach point
2	Power	Power jack for 5V/2A adapter
3	Wireless Status	Wireless status light, blinks when the transmitter and receiver are attempting to make connection, turns solid when connected
4	HDMI Status	HDMI signal status light, turns on when HDMI signal is present
5	HDMI Output	HDMI output jack, supports up to 1080p/60Hz
6	IR Receiver	Connect the IR receiver cable to receive remote control signals
8	Antenna	Antenna attach point
9	Reset	Restart the receiver unit

4 Connection and Setup

For best results, please follow the connection and setup instructions below. The technical support team is standing by to help answer any questions or address difficulties encountered. Please email support@miccatron.com.

The diagram below illustrates how the HDMI transmitter and receiver can be used to wirelessly extend HDMI audio signal, and optionally the IR remote control signal.



Please follow the numbered connection and setup sequence below for optimal results:

1. Place the HDMI Transmitter and HDMI Receiver at locations which has the least amount of obstruction in between. A clear line-of-sight will provide the best results. Orient the transmitter and receiver antennas vertically.
2. Connect the HDMI signal source such as a DVD player to the HDMI Input jack on the HDMI Transmitter.
3. [Optional] Connect the IR Blaster cable to the HDMI Transmitter. Place the IR Blaster near the remote control sensor window on the DVD player.
4. [Optional] A HDMI display device such as a TV or monitor can be connected to the HDMI Output jack on the HDMI Transmitter.
5. Connect a HDMI display device such as a TV or monitor to the HDMI Output jack on the HDMI Receiver. Turn on the power for the TV or monitor.
6. [Optional] Connect the IR Receiver cable to the HDMI Receiver. Place the IR Receiver at a location where it can easily “see” the remote control signal.
7. Connect power to the HDMI Transmitter and Receiver, the Wireless Status lights on the transmitter and receiver will blink, and the TV will display the message “Status: Waiting for

connection...” Once HDMI Transmitter and Receiver are connected, the Wireless Status lights will turn solid, and the TV will display the message “Please check the TX input signal”

8. Turn on the HDMI signal source such as DVD player. The HDMI Status light on the HDMI Transmitter and Receiver will turn on to indicate that a valid HDMI signal has been detected.
9. The TV should now be playing the audio and video from the DVD player.
10. [Optional] If the IR Receiver and IR Blaster are connected, test the remote control to see that the commands are correctly transmitted.

4.1 Troubleshooting

The following are some common troubleshooting steps that can be performed. Please be reminded that our technical support team is available at support@miccatron.com to provide additional assistance.

4.1.1 TV Displays Error Message or No Signal

With the HDMI Transmitter and Receiver powered on, press the “Reset” button on the front of the transmitter and receiver and wait 30 seconds. If the error message persists, please reference the following chart for the appropriate items to check:

TV Display Message	Possible Solution
<i>No Signal</i>	Check that the HDMI Receiver is powered on. Check that the HDMI cable is fully inserted into both the TV and the HDMI Receiver. Check that the TV is set to the correct input.
<i>Waiting for HDMI Transmitter to connect...</i>	Check that the HDMI Transmitter is powered on. Check if the Wireless Status light on the transmitter and receiver are solid or blinking. If blinking, move the transmitter and receiver closer. Position the transmitter and receiver so that there are no objects blocking a direct line-of-sight path, including glass.
<i>Transmitter connected, waiting for HDMI...</i>	Check that the HDMI source such as DVD player is powered on. Check that the HDMI cable is fully inserted into both the DVD player and the HDMI Transmitter. Check that the DVD player has HDMI output enabled and set to either 720p or 1080p resolution. Resolution higher than 1920x1080, such as 4K, is not supported!

4.1.2 Choppy or Poor Video Quality

Try moving the HDMI Transmitter and Receiver very close together to see if the problem goes away. If the video quality is stable when the transmitter and receiver are close together, then they are functioning correctly.

Check that the HDMI source such as DVD player is functioning correctly by connecting it directly to the TV or monitor.

If the choppy or poor video quality only occurs when the transmitter and receiver are further apart, and the HDMI source such as DVD player is also functioning correctly, then the cause may be environmental interference. Try the following:

- Move the HDMI Transmitter and Receiver closer together and ensure that there are no objects blocking a direct line-of-sight path, including glass.
- Move the HDMI Transmitter and Receiver away from large metal objects or surfaces.
- If there are other 5GHz devices in the environment, such as a wireless network router or access point, turn them off temporarily to see if problem goes away.

4.1.3 Audio Sync Problem

The HDMI Transmitter and Receiver adds less than 200ms latency, which in most circumstances would not cause any noticeable audio sync issues. However, in case that the audio sync delay becomes objectionable, check to see if the home theater receiver or sound system being used to reproduce the audio as the ability to delay the audio playback. Add in audio delay while watching a movie with spoken dialogue until the audio sync is no longer objectionable.

4.1.4 Remote Control Signal Not Working

If the remote control signal is not working check the following:

- Check that the IR Blaster is connected to the HDMI Transmitter, and the IR Receiver is connected to the HDMI Receiver. Incorrect connections will not function properly.
- Place the IR Blaster close to the IR remote control sensor window on the device being controlled. Place the IR Receiver at a location that will easily “see” the remote control.
- Make sure that the device being controlled will only “see” the signal from the IR Blaster and is hidden from the remote control. Otherwise the signal from the remote control will interfere with the signal from the IR Blaster. Hide the IR Blaster and device under a cardboard box to check if this interference is the problem.

4.1.5 Still Experiencing Issues?

The technical support team is standing by to help answer any questions or address difficulties encountered. Please email [**support@miccatron.com**](mailto:support@miccatron.com).

5 Specification

5.1 General

Power Source:	DC 5V/2A AC Adapter
Power Consumption:	Transmitter: 7W; Receiver: 5W
Electrostatic Protection:	Contact discharge level 3; Air discharge level 3; Standard: IEC61000-4-2
Working Temperature:	32~122°F (0~50°C)
Storage Temperature:	14~158°F (-10~70°C)
Humidity:	0~90%, no condensation
Case Material:	Alloy, anodized/painted
Weight:	Transmitter: 6oz (170g); Receiver: 6oz (170g)
Dimensions (no antenna):	5.20" (W) x 0.87" (H) x 3.54" (D) 132mm (W) x 22mm (H) x 90mm (D)

5.2 Signals

HDMI Compliance:	Version 1.3
HDCP Compliance:	Version 1.2
HDMI Resolution:	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
TMDS Signal:	0.5-1.5Vpp
Max Signal Rate:	10.2Gbps
IR Signal Compatibility:	20-60kHz
Wireless Band:	5GHz
Wireless Range:	330ft (100M) in open space with clear line-of-sight
Wireless Latency:	<200ms

6 Micca Limited Warranty

Except where indicated differently, the following standard limited warranty is valid for Micca Branded products. Where differences and contradictions occur, warranty terms in product-specific description, listing, invoices, and receipts, those terms shall take precedence over the following standard terms.

The manufacturer warrants all Micca Branded products against defects in materials and workmanship for a limited period of 1 year, unless otherwise superseded by product-specific description, listing, invoices, or receipts. During the limited period, the manufacturer will repair or replace defective products at the manufacturer's sole option. Customer must pay for all return shipping costs during the limited period. The limited warranty period starts at the date of original purchase. This limited warranty applies only to purchases from authorized Micca retailers. This limited warranty is extended only to the original purchaser and is valid only to consumers in the same country as the authorized retailer from which the original purchase was made.

This limited warranty only covers failures due to defects in materials or workmanship that occur during normal use. It does not cover failures resulting from accident, fire, flood, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, modification, service by anyone other than the manufacturer, or damage that is attributable to Acts of God. It does not cover costs of transportation to the manufacturer or damage in transit. Customers should return defective products, freight prepaid and insured, to the manufacturer or authorized warranty service center only after receiving a Return Merchandise Authorization (RMA). Customers are required to provide a copy of the original sales invoice from an authorized retailer when making a claim against this limited warranty.

Within the term of this warranty, defective products send to the manufacturer or authorized warranty center for warranty service will be assessed a fee to cover shipping and handling of the repaired or replacement product back to the customer. The fee amount depends on the product and covers labor/handling, packaging materials, and standard shipping.

Repair or replacement under the terms of this warranty does not extend the term of this warranty. Should a product prove to be defective in workmanship or material, the customer's sole remedies will be repair or replacement as provided under the terms of this warranty. If the defective product is discontinued the manufacturer may replace the product with an equivalent or superior product at its option. The limit of liability under this warranty is the original purchase price of the product. Any cost of re-installation is the sole responsibility of the customer and that cost shall not be the responsibility of the manufacturer. Under no circumstances shall the manufacturer or its retailers be liable for loss or damage, direct, consequential or incidental, arising out of the use of or inability to use the product. There are no express warranties other than described above.

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