



# Wireless HDMI® Extender with IR Support

Model 103103



## User Manual

*(Available in a PDF file)*

**HDMI® CE FC**

Email: [support@cablematters.com](mailto:support@cablematters.com)

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## 1. INTRODUCTION

### 1.1 Introduction

Thank you for your purchase from Cable Matters® Inc., the 'Reliable Connectivity' company. This User Manual provides an overview of the features and installation of the

## WIRELESS HDMI® EXTENDER WITH IR SUPPORT

Please read these instructions carefully before connecting, operating or configuring this product. Please keep this user manual for future reference.

Contact [support@cablematters.com](mailto:support@cablematters.com) for questions or product support.

### 1.2 Copyright and Trademarks

Specifications are subject to change without notice. Cable Matters is a registered trademark or trademark of Cable Matters Inc. All rights reserved. All other trademarks are the property of their respective owners.

### 1.3 FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device must not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

## 2. PRODUCT OVERVIEW

### 2.1 Package Contents

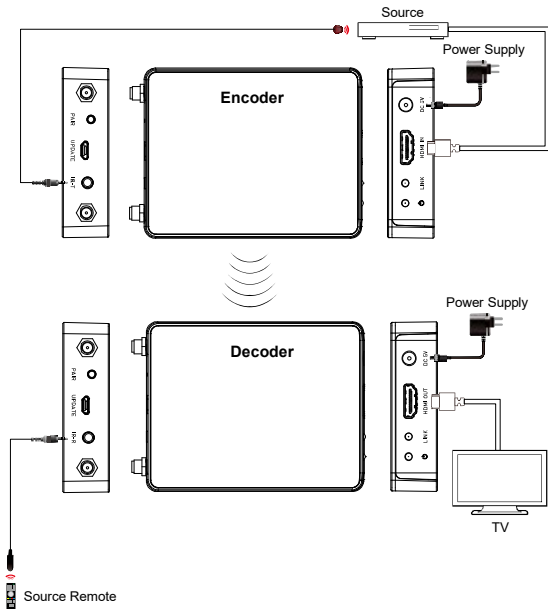
- 1 x HDMI Extender Encoder
- 1 x HDMI Extender Decoder
- 1 x IR Transmitter Cable
- 1 x IR Receiver Cable (20~60KHz)
- 2 x Power Adapters
- 4 x 5G Wi-Fi Antennas
- 2 x HDMI 2.0 Cables - 6 Feet
- 1 x User Manual

### 2.2 Product Description

The Cable Matters® Wireless HDMI® Extender with IR Support provides a convenient wireless solution for connecting a computer, Blu-ray player, set-top box or other source with HDMI to an HDTV, monitor or projector. Broadcast HD video and audio content wirelessly up to 330 feet in a conference room, classroom, or security station.

### 2.3 Product Features

- Wirelessly transmit one HDMI HD source signal to one HDMI HD display with 1920×1080@60Hz resolution up to 330ft/100m.
- Supports HDCP 1.4 pass-thru for seamless viewing of content-protected video.
- Includes one-way IR control for convenient operation.
- Supports HDMI audio formats, with input LPCM 2.0CH at various frequencies (32KHz/44.1KHz/48KHz/88.2KHz/96KHz/176.4KHz/192KHz) and output LPCM 2.0CH at 48KHz.
- Utilizes H.265 high-performance codec technology for efficient video transmission.
- Offers less than 120ms end-to-end delay.
- Features a compact design for easy and flexible installation in various setups.

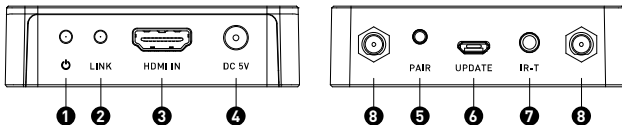


### 3. CONNECTION AND OPERATING INSTRUCTIONS

#### 3.1 Installation Checklist

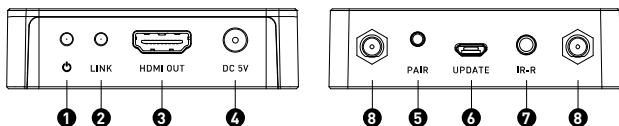
- Power off all equipment before connecting the cables
- Test placement of Encoder and Decoder before installing permanently
- Use high quality HDMI cables in the shortest length needed (2 are included)
- AC outlet near Encoder and Decoder for power adapter
- Ventilation vents on Encoder and Decoder should not be blocked
- Connecting through an HDMI splitter or switch may cause latency

#### 3.2 Encoder Panel Connections



- 1) **Power LED:** The LED will illuminate when the encoder is powered on.
- 2) **LINK LED:** The LINK LED flashing means that the encoder and decoder are paired successfully.
- 3) **HDMI IN:** HDMI source input port for connecting the HDMI source device
- 4) **Power:** Connect the DC 5V/2A power adapter
- 5) **PAIR:** Press and hold the PAIR button, then power on the Encoder, and the Encoder will enter the upgrade mode. Press and hold the PAIR button for 5 seconds after powering on the Encoder, and the Encoder will restore factory settings. Then it needs to pair with the Decoder again.
- 6) **UPDATE:** Firmware update port
- 7) **IR OUT:** Connect the IR Transmitter cable
- 8) **Antenna:** Connect the Wi-Fi antenna

### 3.3 Decoder Panel Connections



- 1) Power LED:** The LED will illuminate when the decoder is powered on.
- 2) LINK LED:** The LINK LED flashing means that the encoder and decoder are transmitting video signals
- 3) HDMI OUT:** HDMI output port for connecting the HDMI display device
- 4) Power:** Connect the DC 5V/2A power adapter
- 5) PAIR:** Press and hold the PAIR button, then power on the Decoder, and the Decoder will enter the upgrade mode. Press and hold the PAIR button for 5 seconds after powering on the Decoder, the Decoder will restore factory settings.
- 6) UPDATE:** Firmware update port
- 7) IR IN:** Connect the IR Receiver cable
- 8) Antenna:** Connect the Wi-Fi antenna

### 3.4 Pairing Instructions

- 1) Connect the Encoder and Decoder with an HDMI cable
- 2) Power on the Decoder - the power LED and LINK LED of the Decoder will be always on
- 3) Power on the Encoder. After successful pairing, the LINK LED of the Encoder will flash. (If the pairing fails, return to Step 2)

If the LINK LED of Encoder is always on, it indicates that the Encoder and Decoder have not been connected or paired. When there is video signal transmission, the LINK LED of Decoder will flash; When there is no video signal transmission, the LINK LED of Decoder will be always on.

Encoder's LINK LED status (Green)	Decoder's LINK LED status (Green)	Description
Always on	Always on	The Encoder and Decoder are not paired or connected
Flash	Always on	Successful pairing
Flash	Flash	The Encoder and Decoder are paired successfully, and there is video signal transmission

### 3.5 Troubleshooting Tips

#### Cabling

- Check that all cable connections are secure
- Test HDMI cables with different equipment
- An HDMI splitter or switch may be incompatible or cause latency

#### Video/Audio Source

- Try different video resolution settings supported by the display
- Check the audio output in *Playback Devices* from the computer taskbar
- Verify that the audio is not muted
- Some CATV set-top boxes may not be compatible
- Reboot all equipment after making multiple changes

#### Output Display

- Select the appropriate HDMI input from the display menu
- Adjust the audio level from the display menu

#### Encoder & Decoder Units

- Green Power LED should be lit indicating that it is receiving power
- Green LINK LED should be flashing indicating a connection
- Test different height and length placement locations for each unit
- Test the AC Outlet and DC adapters to ensure they are receiving power
- Press and hold the pair button on the Encoder and Decoder to reset the units

Contact [support@cablematters.com](mailto:support@cablematters.com) with a description of your computer

## 4. TECHNICAL SPECIFICATIONS

Input:	HDMI 1.3 - 19 Pin-Female
Output:	HDMI 1.3 - 19-Pin Female
Video Resolution:	Up to 1080p @ 60Hz
Color Space:	RGB, YCbCr 4:4:4 / 4:2:2
Color Depth:	8/10/12-bit (1080P@60Hz)
Broadcast Distance	Up to 330ft/100 meters
Broadcast Frequency:	5 GHz
Audio Support:	LPCM 2CH
Power:	DC 5V/2A
Tx/Rx Unit (LxWxD)	3.9 x 3.0 x 0.8 Inches / 3.5 Ounces (Each)
Compliance	HDMI 1.3, HDCP 1.4, CE, FCC
Warranty:	Limited One-Year

Note: Specifications are subject to change without notice

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and/or other countries.

## 5. WARRANTY AND SUPPORT

### 5.1 Customer Support and Contact Information

Cable Matters offers lifetime technical support as an integral part of our commitment to provide industry leading solutions.

Email us with any questions at [support@cablematters.com](mailto:support@cablematters.com).

### 5.2 Warranty Information

This product is backed by a limited one-year warranty. The warranty covers parts and labor costs only. Cable Matters does not warrant its products from defects or damages arising from misuse, abuse, or normal wear.

### 5.3 Limitation of Liability

In no event shall Cable Matters Inc. (including their officers, directors, employees or agents) be liable for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of, or related to the use of this product exceeding the actual price paid for the product (as allowed by state law).