HDMI WIRELES EXTENDER
(1080P / 50 FT.)

HDMI | PEER TO PEER | 24/50/60 FPS | PCM AUDIO | DSLR COMPATIBLE | MOUNTING BRACKET | GIMBAL COMPATIBLE | IR PASS-THROUGH

FULL HD

IR

DA-HDWE USER MANUAL

INTRODUCTION

Thank you for choosing and trusting Sabrent. This HDMI Wireless Extender kit includes two main units: a transmitter (TX) and a receiver (RX). It allows an HDMI signal to travel wirelessly in a peer-to-peer configuration using the 5 GHz spectrum. There is no software involved, no Ethernet, no routers, just plug the HDMI and power connectors and use it.

It will enable you to transmit and extend said HDMI signal up to 30 meters outdoors, and approximately 15 meters indoors. It has a strong built-in anti-interference algorithm that allows it to hop channels looking for the best signal.

Additionally, it supports Infra-Red pass-through with an IR frequency of 20-60 KHz, which (if needed) will allow you to use your device's original IR remote control.

It is a great solution for meetings and conference rooms, home-entertainment, camera monitoring, attaching it to camera gimbals or remote monitoring systems.

NOTE

- Transmission distance will be different depending on environmental conditions and the amount of interference at each location.

- Line-of-sight is not necessary for this system to work. However, thick walls, brick, and glass will shorten the signal range and may cause total signal loss.

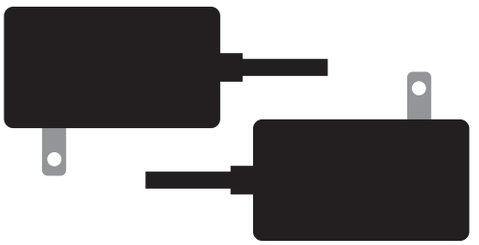
FEATURES

- Peer to Peer Wireless HD Transmission up to 50 feet indoors (15 meters) and 100 feet outdoors (30 meters)
- Support for up to 1080p Full HD at 24, 50, and 60 FPS
- HDMI 1.3 and HDCP 1.2 Compliance
- PCM Audio Support
- True & Tested Compatibility with the latest Canon, Panasonic, and Sony DSLRs
- Camera Mounting Bracket included, easily adapt it to a cold-shoe or 15mm rail mount
- Transmitter and mounting bracket weigh less than 3.5 ounces (100 grams), making it ideal for lightweight applications
- Works with Ronin-MX, Ronin-M, Ronin-S, Crane 2, and other gimbals
- Support for Infra-Red Remote Control pass-through function (IR range of 20-60 KHz)
- Strong built-in anti-interference and channel-hopping algorithm
- Plug & Play connection (only requires power and an HDMI connection)

PACKAGE CONTENTS

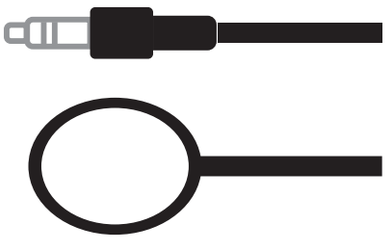
HDMI EXTENDER RX
X 1

HDMI EXTENDER TX
X 1

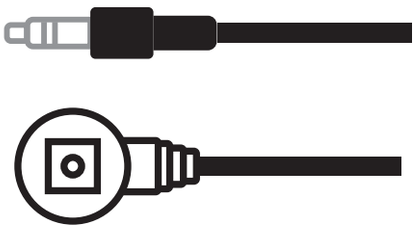


DC5V/2A X 1
MICRO-USB DC5V/1A X 1

USER MANUAL
X 1



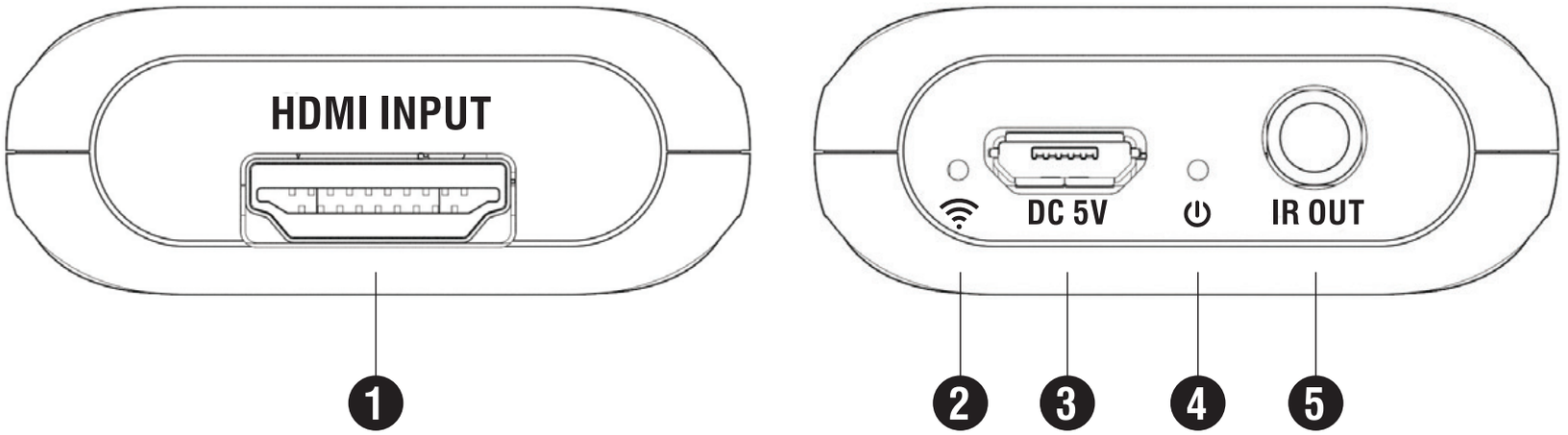
IR BLASTER EXTENSION
X 1



IR RECEIVER EXTENSION
X 1

MOUNTING BRACKETS FOR BOTH RX AND TX UNIT

TRANSMITTER (TX)



1. **HDMI INPUT:** Connect to an HDMI source device (DSLR camera, TV cable box, computer video card, DVD or Blu-ray player, game console.)

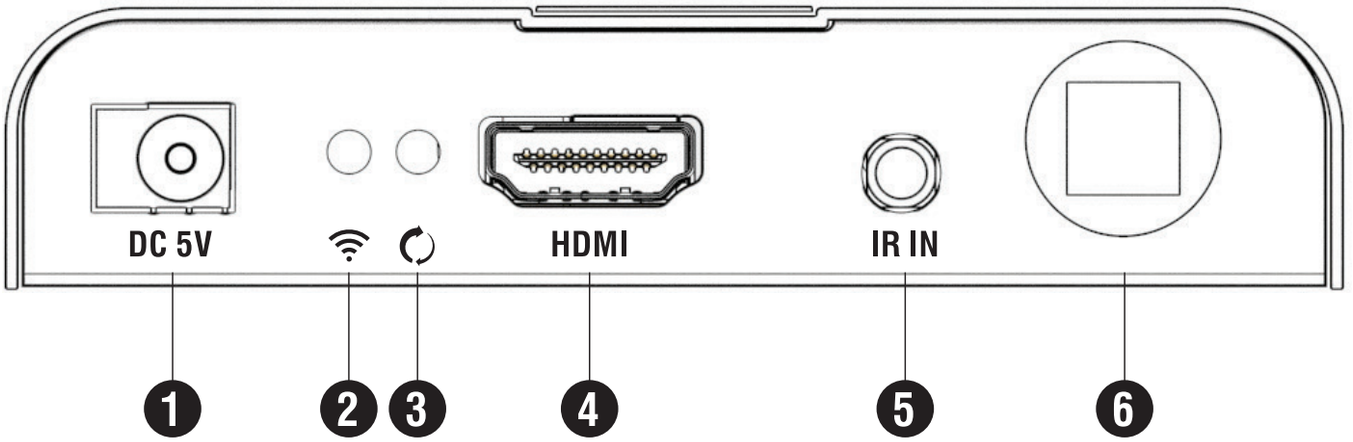
2. **CONNECTION INDICATOR LED:** A solid light indicates there is an HDMI signal input.
   A Blinking LED indicates data is being transmitted.

3. **MICRO-USB POWER INPUT:** Connect to the AC to Micro-USB 5V / 1A power adapter.

4. **POWER INDICATOR:** LED is ON when the device is turned on. OFF indicates no power.

5. **IR REMOTE CONTROL SIGNAL OUTPUT:** Connect to the IR blaster extension cable.
   Each cable is properly labelled. Don't confuse them. Make sure to place the IR blaster sensor close to source device in order to establish a solid IR connection for your remote control.

RECEIVER (RX)



1. **POWER INPUT:** Connect to the AC-DC 5V / 2A power adapter.

2. **WIRELESS CONNECTION LED INDICATOR:** It is ON when the transmitter and the receiver have established a successful connection. Otherwise, it is OFF.

3. **DATA TRANSMISSION LED INDICATOR:** LED blinks slowly when establishing connection. It blinks fast when it is already connected and transmitting data normally.

4. **HDMI OUTPUT:** Connect to an HDMI display device (monitor, HDTV, projector, FPV goggles.)

5. **IR REMOTE CONTROL SIGNAL INPUT:** Connect to the IR receiver extension cable. Each cable is properly labelled. Don't confuse them.

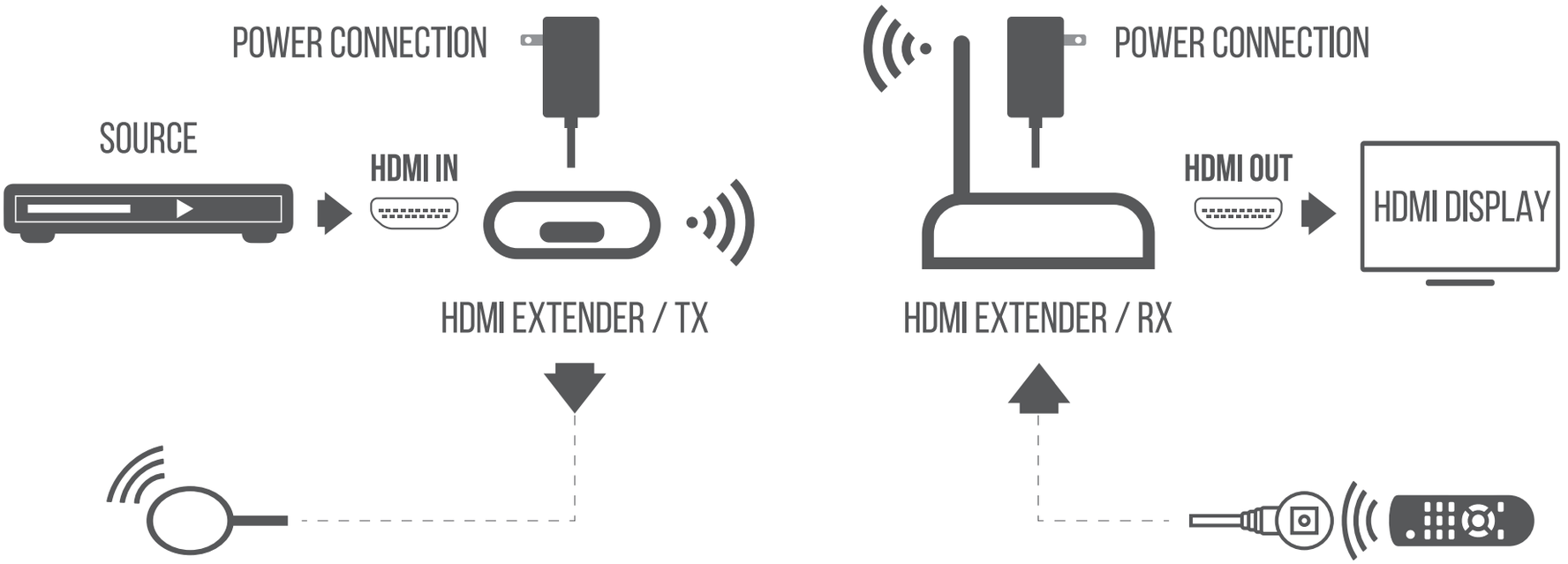
6. **ANTENNA PORT:** Attach the provided antenna by screwing it clockwise.

INSTALLATION REQUIREMENTS

1. HDMI source device (DSLR camera, TV cable box, computer video card, DVD or Blu-ray player, game console, HD surveillance equipment, etc.)

2. HDMI display device like a standard-definition or high-definition TV, monitor, or projector with an available HDMI port.

CONNECTION DIAGRAM



HOW TO CONNECT IT

1. Connect your source device (Blu-ray, camera, etc.) to the Transmitter (TX), and your display device (monitor, TV, projector) to the Receiver (RX) via HDMI cables (not included).

2. Attach the antenna to the Receiver (RX).

3. Connect both transmitter and receiver to their respective 5V DC power adapters. This will begin the connection process. Once the units are synced, you will see the image and be able to change the resolutions to the attached display device.

USB POWER: Alternatively, you can use a Micro-USB cable to power up the Transmitter (TX). If you choose to do so, please make sure your USB power source (such as an external USB battery, a gimbal's USB port, or a TV's USB port) is capable of supplying at least 1 AMP of current at 5 volts. Otherwise, the unit won't have enough power to function properly. When this happens, your device will experience signal drops, have an intermittent connection, and be overall unstable.

NOTE
DO NOT TURN ON OR USE THE RECEIVER (RX) WITHOUT ITS EXTERNAL ANTENNA ATTACHED.

USING THE OPTIONAL INFRA-RED REMOTE CONTROL PASS-THROUGH FUNCTION

This feature will allow you to continue using your infra-red remote control in spite of the distance and line-of-sight between your source device and your display unit.

1. According to the diagram above, connect the **IR IN** signal cable to the receiver **(RX)**. Then connect the **IR OUT** signal cable to the transmitter **(TX)**. For your convenience, both cables are labeled.

2. The emitter of the **IR OUT** cable should be as close as possible to the **HDMI** input source device.

TROUBLESHOOTING

Transmitter and receiver are unable to sync or find signal.

1. Please check if the wireless connection light blinks properly.

2. Restart the transmitter and/or receiver. Make sure both have their respective power connections.

3. Swap out HDMI cables (even if they work on other devices, cables may not be fully compliant with the HDMI official standard).

4. If your Transmitter (TX) is being powered by anything other than the provided AC to USB power adapter (such as an external USB battery, a gimbal's USB port, or a TV's USB port), please try using it to run a test. If using the provided AC to USB adapter works, it means that the external USB power source does not have enough current to properly power the Transmitter (TX).

The WIFI LED indicator on the transmitter is ON, but there is no signal output on the display?

Please check if there is an input HDMI signal on the transmitter (TX). To do this, you can try connecting your source device directly to your display to confirm that both are operating properly and you can see the video feed. Then, reconnect the HDMI wireless kit.

TROUBLESHOOTING

Signal is unstable or intermittent.

1. Move sender (TX) and/or receiver (RX) to make sure both devices are within signal range.

2. Restart the transmitter and/or receiver. Make sure both have their respective power connections.

3. Swap out HDMI cables (even if they work on other devices, cables may not be fully compliant with the HDMI official standard).

4. If your Transmitter (TX) is being powered by anything other than the provided AC to USB power adapter (such as an external USB battery, a gimbal's USB port, or a TV's USB port), please try using it to run a test. If using the provided AC to USB adapter works, it means that the external USB power source does not have enough current to properly power the Transmitter (TX).

DETAILED SPECIFICATIONS

POWER SUPPLY	Voltage / Current	TX: DC5V / 1A RX: DC5V / 2A
	Power Consumption	TX ＜ 3W RX ＜ 5W
HDMI COMPLIANCE	HDMI Compliance	HDMI 1.3
	HDCP Compliance	HDCP 1.2
	HDMI Supported Resolutions	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
INFRA-RED SPECS	IR Remote Control	Remote Control Pass-Through Function Operating IR frequency: 20-60 KHz.
HDMI DETAILED SPECS	Audio Formats Supported	L / R Stereo Audio
	Maximum Transfer Rate	10.2Gbps
	Input and Output TMDS Signal	0.7～1.5Vp-p (TMDS)
	Input and Output DDC Signal	5Vp-p (TTL)
	Input Cable Length Required	≤ 5m (AWG26, HDMI1.3 Compliant)
	Output Cable Length Required	≤ 5m (AWG26, HDMI1.3 Compliant)

WIRELESS SPECS	Transmission Method	5Ghz Wireless
	Transmission Distance	15 meters (indoors), 30 Meters (outdoors)
	Latency	≤ 200ms
PROTECTION	Electrostatic Discharge Protection	1a Contact discharge level 3
		1b Air discharge level 3
		Standard: IEC61000-4-2
OPERATING TEMPERATURE	Working Temperature	0～40°C
	Storage Temperature	-20～80°C
	Humidity (no condensation)	0～90%
PHYISICAL DETAILS	Dimension	TX: 88.90(W) x 38.99(D) x15.17(H)mm RX: 131.65(W) x 95(D) x 19.90(H)mm
	Material	RX: Iron alloy material TX: ABS Plastic
	Finishing	Grit blast
	Color	Black
	Weight	TX：30g　　RX：220g
RELIABILITY	Mean Time Between Failures (MTBF)	＞ 50000 Hour

Please contact our Technical Support Team for additional troubleshooting

WWW.SABRENT.COM