



Powerology

AIROMA USB-C to HDMI Wireless Display Adapter

SKU: PWTC03WH

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Product Introduction

The Powerology Wireless HDMI Transmitter & Receiver is a compact plug-and-play display adapter that mirrors your phone, tablet or laptop to any HDMI display without cables. The USB-C transmitter attaches to your source device while the HDMI receiver plugs into your TV, monitor or projector, streaming Full HD 1080p video at 60Hz over a stable 5.8GHz wireless link with low latency. A pass-through USB-C port on the transmitter lets you keep your phone charged while mirroring, and a single-tap Pair/Rotation button switches between portrait and landscape orientation for an ideal viewing experience.



Structural Diagram

The set consists of two units: a USB-C Transmitter that connects to your phone, tablet or laptop, and an HDMI Receiver that plugs into your display. Each unit has an LED status indicator, and the transmitter includes a pairing button and a USB-C pass-through port for charging your source device while mirroring.



Safety Information

Warning:

1. Do not immerse the transmitter, receiver, or cables in water or any liquid.
2. Keep the device away from open flames and heat sources.
3. Do not disassemble, modify, or attempt to repair the device.
4. Do not drop, crush, or subject the device to strong impacts.
5. Power the device only from a compatible USB source of the correct rated output to avoid overheating or damage.

6. Use a certified HDMI cable and USB-C cable in good condition; damaged cables may cause shock or signal failure.
7. Stop using immediately if the device emits smoke, unusual odor, or becomes excessively hot.
8. Do not cover the transmitter or receiver during operation, as restricted airflow can cause overheating.
9. Do not use the device in flammable, explosive, or corrosive environments.
10. For indoor and dry use only; do not expose the transmitter or receiver to moisture, rain or humid environments.
11. Unplug the transmitter and receiver from the source device and power supply when not in use and before cleaning.

Attention:

1. Follow the instructions in this manual for correct setup and operation.
2. Allow adequate space around the transmitter and receiver for ventilation to prevent overheating during use.
3. Keep the device away from strong electromagnetic interference to maintain a stable 5.8GHz wireless connection.
4. Avoid obstructions between the transmitter and receiver to preserve signal quality within the rated transmission range.
5. Store the device in a cool, dry place away from direct sunlight when not in use.
6. Clean only with a soft, dry cloth; do not use solvents or abrasive cleaners.
7. Keep small parts and connectors out of reach of children.
8. For malfunctions or warranty claims, please contact customer service.
9. This product complies with applicable CE, RoHS regulations for 5.8GHz wireless devices; refer to product packaging for certification markings.
10. Do not dispose of this product with household waste; recycle it in accordance with local WEEE regulations and refer to the packaging for the applicable disposal symbol.
11. The transmitter and receiver may become warm during normal operation; this is expected, provided ventilation is not restricted.

13. Avoid staring directly at the LED indicators at close range, as their brightness may cause temporary visual discomfort.

Setup & Operation

1. Connecting the Receiver to Your Display

Remove the protective cap from the HDMI connector on the Receiver.

Plug the Receiver into a free HDMI port on your TV, monitor or projector.

Switch the display to the matching HDMI input source.

Wait for the Receiver LED to light up, indicating it is powered and ready.

If the display does not power the Receiver, use an external 5V/1A USB power source.

2. Connecting the Transmitter to Your Source Device

Plug the USB-C Transmitter directly into your phone, tablet or laptop's USB-C port.

Ensure the USB-C port supports DisplayPort Alternate Mode (video output).

The Transmitter LED will illuminate once power and signal are detected.

The Transmitter and Receiver will pair automatically within a few seconds.

Your device screen will begin mirroring on the connected display.

3. Charging Your Device While Mirroring

Locate the Phone Charge USB-C port on the side of the Transmitter.

Connect a USB-C charging cable from your wall charger to this port.

Your source device will continue to charge while the screen is being mirrored.

Use a charger rated for your device's normal charging requirements.

4. Using One-Tap Rotation

Press the Pair/Rotation button on the Transmitter once during mirroring.

The displayed image will rotate between portrait and landscape orientation.

Press again to return to the previous orientation as needed.

5. Manual Pairing

If the Transmitter and Receiver do not connect automatically, press and hold the Pair/Rotation button on the Transmitter for a few seconds.

Watch the LED indicators — a solid light on both units confirms a successful pairing.

Keep the two units within the 50m operating range (in open line-of-sight conditions) and away from strong wireless interference.

Specifications

Rated Input	5V/1A
HDMI Version	V1.3
Video Resolution	1920 x 1080@60Hz
Wireless Frequency	5.8GHz
Video Compression Format	H.265
Transmission Range	50m
Maximum Bandwidth	6.75Gbps
Maximum Pixel Clock	165MHz
Connector Type	USB-C (Transmitter), HDMI (Receiver)
Power Consumption	5W (Transmitter) 5W (Receiver)
Product Material	ABS
Product Size	Receiver: 81.6 x 24 x 11.5mm Transmitter: 76.2 x 23.2 x 10.6mm
Product Weight	200g
Model Number	PWTC03

Key Features

1. Full HD 1080p wireless streaming at 60Hz for crisp, smooth playback.
2. Low-latency 5.8GHz wireless signal for lag-free mirroring and presentations.
3. Transmission range of up to 50m in open line-of-sight conditions, with H.265 video compression.

4. Charge-while-mirroring USB-C pass-through port keeps your device powered.
5. One-tap Pair/Rotation button switches instantly between portrait and landscape.
6. Wide compatibility with USB-C smartphones, tablets, laptops, monitors, TVs, projectors and LED displays.
7. Compact and portable plug-and-play design — no app or driver installation required.
8. LED status indicators show pairing and connection state at a glance.

Frequently Asked Questions

1. Do I need to install an app or driver to use this adapter?

No. The adapter is fully plug-and-play. Simply connect the Receiver to your HDMI display and the Transmitter to your USB-C device, and mirroring begins automatically.

2. Which devices are compatible with the Transmitter?

Any smartphone, tablet or laptop with a USB-C port that supports DisplayPort Alternate Mode (video output). This includes most modern iOS and Android devices as well as USB-C laptops.

3. Can I charge my phone while mirroring the screen?

Yes. The Transmitter has a dedicated USB-C pass-through port labeled 'Phone Charge'. Connect a standard USB-C charging cable to keep your device powered during use.

4. What is the maximum wireless range?

The Transmitter and Receiver can operate up to 50m apart in open line-of-sight conditions. Walls, metal surfaces and other 5.8GHz devices may reduce the effective range.

5. Does the adapter support 4K video?

No. The adapter streams Full HD 1080p at 60Hz, which is the maximum supported resolution.

6. Can I use multiple Transmitters with one Receiver?

No. Each Transmitter and Receiver pair is designed to work together as a set, and only one Transmitter can be actively connected to a Receiver at a time.

Troubleshooting

Problem	Likely Cause	Solution
No image appears on the display	Display is set to the wrong input	Switch the TV or monitor to the correct HDMI input source.
Receiver LED does not light up	Insufficient power from the HDMI port	Connect the Receiver to an external 5V/1A USB power source.
Transmitter LED does not light up	Source device's USB-C port does not support video output	Use a device with a USB-C port that supports DisplayPort Alternate Mode.
Transmitter and Receiver will not pair	Units are out of range or interference is present	Bring the units closer, then press and hold the Pair button on the Transmitter.
Video is choppy or lagging	Wireless interference from other 5.8GHz devices	Move away from routers, cordless phones or other wireless equipment; reduce the distance between units.
Screen mirrors but there is no sound	Audio output routing on the source device is incorrect	Check the audio output settings on your phone, tablet or laptop and select HDMI as the output.

Problem	Likely Cause	Solution
Image is stretched or in the wrong orientation	Display orientation mismatch	Press the Pair/Rotation button on the Transmitter to switch between portrait and landscape.
Phone is not charging through the pass-through port	Charger or cable is faulty or under-rated	Use a functioning USB-C cable and a charger rated for your device.
Connection drops intermittently	Weak signal or obstructions in the path	Reposition the Receiver for a clearer line of sight and ensure both units stay within 50m.
Poor image quality or low resolution	Source device is not outputting Full HD	Check the display output settings on your device and set it to 1920 x 1080 if possible.
Adapter feels warm during use	Normal operating temperature	Ensure good ventilation around both units; do not cover them during operation.
Display shows 'No Signal'	Transmitter is unplugged or not paired	Reconnect the Transmitter to your source device and confirm both LED indicators are lit.

Disposal

This product must not be disposed of as unsorted household waste. It is important to separate such waste for proper treatment and recycling, in compliance with local waste management regulations.

Warranty

Products that you buy directly from our Powerology website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our Powerology website or store. If Powerology products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website www.powerology.me/warranty and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check: www.powerology.me/warranty

Contact Us

Email: **hey@powerology.me**

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