

## VENTION ADCB0

# VENTION Wireless HDMI Dongle Transmitter and Receiver User Manual

Model: ADCB0

## 1. PRODUCT OVERVIEW

The VENTION Wireless HDMI Dongle Transmitter and Receiver kit provides a seamless plug-and-play solution for wireless video transmission. It eliminates the need for complex app downloads, Bluetooth, or Wi-Fi connections, offering a straightforward way to extend your display from a PC or laptop to an HDTV, projector, or monitor.

This system supports high-definition video resolutions up to 1920×1080@60Hz and features advanced 5GHz transmission technology for stable and efficient long-distance signal transmission. It is designed for wide compatibility across various HDMI-enabled devices and supports multiple transmitters connecting to a single receiver for flexible usage scenarios.



*Image: VENTION Wireless HDMI Transmitter (TX) and Receiver (RX) units.*

## 2. WHAT'S IN THE BOX

Please verify that all components are present in your package:

- 1x Wireless HDMI Transmitter (TX)
- 1x Wireless HDMI Receiver (RX)
- 1x HDMI Extension Cable (0.2 m)
- 2x USB-C Power Cords (1 m)

- 1x User Manual
- 1x Gift Box



Image: All components included in the VENTION Wireless HDMI kit.

### 3. SETUP GUIDE

Follow these steps to set up your VENTION Wireless HDMI system:

1. **Connect the Receiver (RX):** Connect the Receiver (RX) unit to an HDMI input port on your display device (HDTV, projector, or monitor). Ensure the RX unit is powered via its USB-C port using one of the provided USB-C power cords.
2. **Adjust Input Source:** On your display device, select the correct HDMI input source to which the RX unit is connected.
3. **Connect the Transmitter (TX):** Connect the Transmitter (TX) unit to the HDMI output port of your source device (PC, laptop, camera, etc.). The TX unit can draw power directly from the HDMI port; however, if additional power is needed, connect the second USB-C power cord to its USB-C port.



Image: Step-by-step connection guide for the VENTION Wireless HDMI system.

The system is designed for true plug-and-play functionality. Screen sharing should commence automatically within 10 to 15 seconds after both devices are connected and powered on.

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Video: This video demonstrates the simple plug-and-play setup process for the VENTION Wireless HDMI Transmitter and



Receiver, showing how quickly screen sharing is achieved after connecting the devices.

## 4. OPERATING INSTRUCTIONS

### 4.1. Basic Screen Sharing

Once connected, the VENTION Wireless HDMI system automatically mirrors or extends your source device's display to the connected monitor or projector. No additional software or network configuration is required.



Image: Demonstrates the plug-and-play functionality between a laptop and a display.

### 4.2. Dual Display Modes

The system supports both **Extend Mode** and **Mirror Mode**, allowing you to configure your display setup according to your needs. These modes are typically controlled through your computer's display settings.

- **Mirror Mode:** Duplicates your source device's screen onto the external display.
- **Extend Mode:** Extends your desktop across both displays, providing more screen real estate.

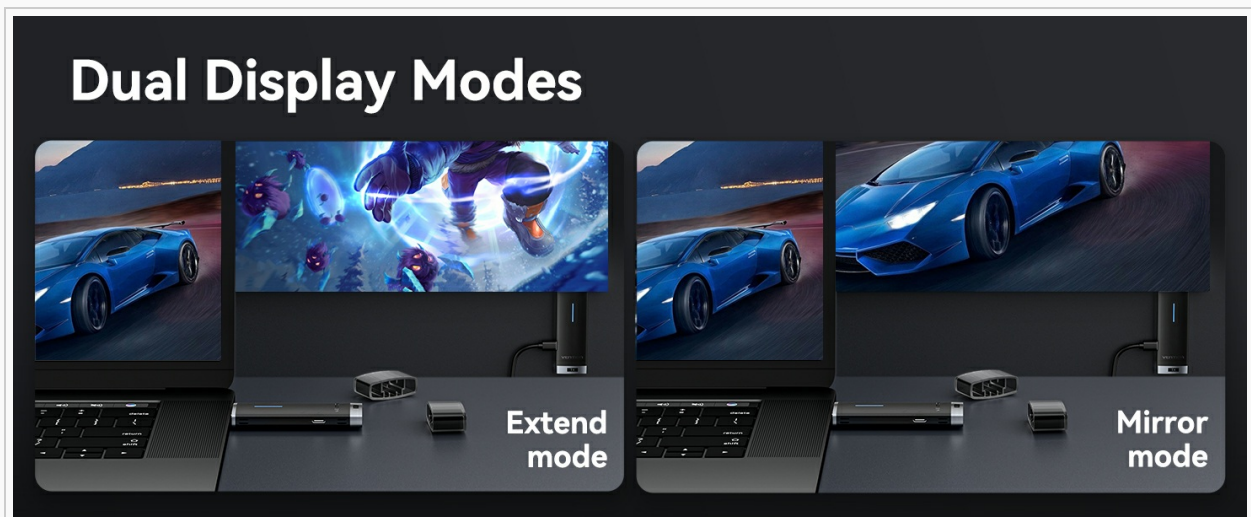


Image: Visual representation of Extend and Mirror display modes.

### 4.3. Multiple Transmitters to One Receiver

For environments like conference rooms or classrooms, the VENTION system allows up to 8 transmitter units to pair with a single receiver. This feature enables seamless switching between different source devices with a single click, facilitating dynamic presentations without delays.



Image: Conference hub setup with one receiver and multiple transmitters.

#### 4.4. Wireless Transmission Range

The device utilizes advanced 5GHz transmission technology, providing a stable signal for up to 131 feet (40 meters) in interference-free environments. Please note that obstacles like walls or floors can reduce the effective range to approximately 32 feet (10 meters).

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Video: This video demonstrates the stable transmission capability of the VENTION Wireless HDMI system over a distance of 132 feet (40 meters).

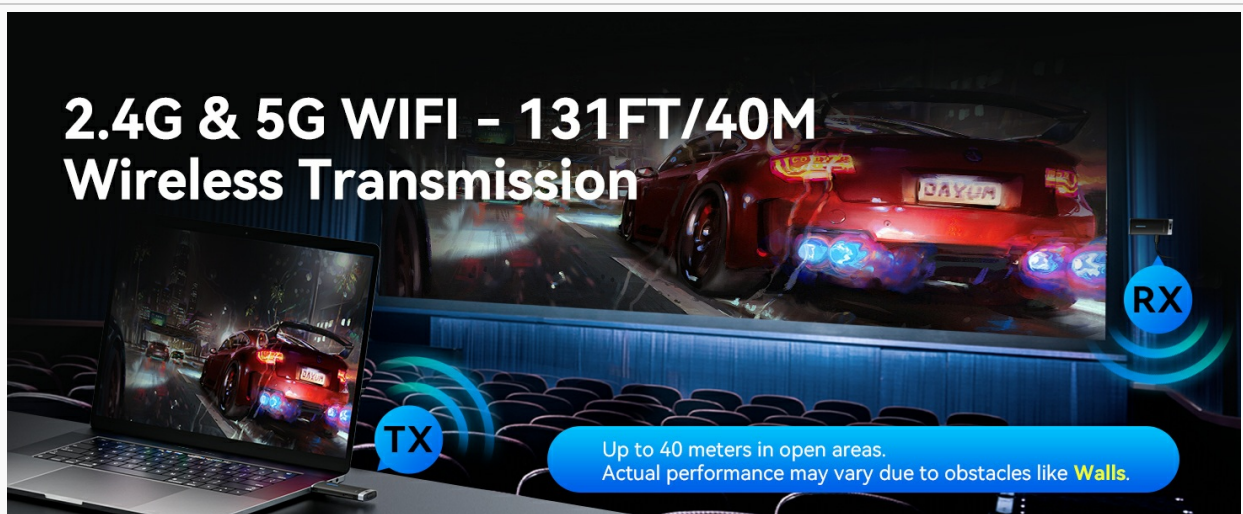


Image: Wireless transmission range and impact of obstacles.

## 5. MAINTENANCE

To ensure the longevity and optimal performance of your VENTION Wireless HDMI system, consider the following maintenance tips:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the transmitter and receiver units. Avoid using liquid cleaners or abrasive materials.
- **Storage:** When not in use for extended periods, store the devices in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the units and cables with care to prevent physical damage to ports or internal components.

- **Ventilation:** Ensure the units have adequate ventilation during operation to prevent overheating.

## 6. TROUBLESHOOTING

If you encounter issues with your VENTION Wireless HDMI system, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No signal on display	Incorrect input source selected on display; TX/RX not powered; Loose connections; Incompatible HDMI port.	Ensure the display is set to the correct HDMI input. Verify both TX and RX units are properly powered (RX requires USB-C power, TX can use HDMI power or optional USB-C). Check all HDMI and USB-C connections are secure. Try a different HDMI port on your display.
Intermittent signal or poor quality	Excessive distance; Obstacles (walls, floors); Interference from other wireless devices; Low power to TX/RX.	Reduce the distance between TX and RX units. Minimize obstacles between the units. Ensure both TX and RX units are receiving sufficient power, especially the TX if it's only drawing power from the HDMI port. Try to reduce other 5GHz wireless interference.
High latency or lag	Distance/obstacles; High network traffic (if other 5GHz devices are present); Source device performance.	Ensure units are within optimal range and line of sight. Minimize other 5GHz wireless activity. Ensure your source device (laptop/PC) has adequate processing power for the content being transmitted. Note that while low, some latency is inherent in wireless transmission.
Cannot connect multiple TX units to one RX	Incorrect pairing procedure; Exceeded maximum number of paired devices.	Refer to the specific pairing instructions in the full manual if automatic pairing fails. Ensure you have not exceeded the maximum of 8 paired transmitters per receiver.
Device gets hot	Normal operation; Insufficient ventilation.	Some warmth during operation is normal. Ensure the units are placed in a well-ventilated area and not covered. If overheating persists and affects performance, discontinue use and contact support.

For further assistance, please contact VENTION customer support.

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*Video: A 4-hour usage test demonstrating the sustained performance of the VENTION Wireless HDMI system under continuous operation.*

## 7. SPECIFICATIONS

Feature	Detail
Brand	VENTION

Feature	Detail
Model Number	ADCB0
Connectivity Technology	Wi-Fi (2.4/5GHz)
Video Resolution	Up to 1920x1080@60Hz (1080P)
Wireless Transmission Range	Up to 131ft (40m) in open environments; approx. 32ft (10m) through walls.
Latency	Minimal (0.1s)
Power Supply (RX)	USB-C (required)
Power Supply (TX)	HDMI port (primary), USB-C (optional/supplemental)
Audio Output Mode	Stereo
Video Encoding	H.264, H.265/HEVC
Color	Black
Item Weight	6.4 ounces
Package Dimensions	6.81 x 5.71 x 1.26 inches
Country of Origin	China

## 8. WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the official VENTION website or the warranty card included with your product. You can also visit the [VENTION Official Store on Amazon](#) for additional resources and contact options.