Tongtion H-1

Tongtion Wireless HDMI Extender User Manual

Model: H-1

1. PRODUCT OVERVIEW

The Tongtion Wireless HDMI Extender (Model H-1) provides a solution for extending HDMI video and audio signals wirelessly. It supports 1080P Full HD resolution at 60Hz and offers a transmission range of up to 1640 feet (500 meters) in line-of-sight conditions. Designed for plug-and-play operation, it eliminates the need for complex driver installations or software configurations, making it suitable for various applications including conference rooms, live events, and home theaters.

Image: The Tongtion Wireless HDMI Extender system, showing both the transmitter and receiver units with their antennas.

2. WHAT'S IN THE BOX

Verify that all components are present in the package:

- 1 x Wireless HDMI Transmitter
- 1 x Wireless HDMI Receiver
- 4 x Antennas
- 2 x Power Adapters
- 2 x USB-C Power Cables
- 1 x User Guide
- HDMI Cables

Image: A visual representation of the package contents, including the transmitter, receiver, antennas, power adapters, USB-C cables, and user guide.

3. SPECIFICATIONS

Feature	Detail
Model Number	H-1
Resolution Support	1920×1080@60Hz (1080P Full HD)
Transmission Range	Up to 500m (1640ft) Line-of-Sight
Wireless Frequency	5GHz (802.11a/n)
Antenna Configuration	2T2R Dual-Antenna
HDMI Standard	HDMI1.4 / HDCP1.4
Power Options	Power bank, NP-F series batteries (not included), USB-C ports
Color	Black
Item Weight	1.17 pounds (0.53 kg)
Product Dimensions	5.87 x 3.74 x 0.96 inches (14.9 x 9.5 x 2.4 cm)
Special Feature	Auto Calibration

4. SETUP INSTRUCTIONS

The Tongtion Wireless HDMI Extender is designed for true plug-and-play operation, requiring no drivers or software installation.

1. **Connect Antennas:** Screw the four provided antennas onto the designated ports on both the Transmitter and Receiver units. Ensure they are securely fastened.

Image: Close-up view of the transmitter and receiver units, highlighting the antenna connection points.

2. **Power the Receiver:** Connect one end of a USB-C power cable to the Receiver unit's USB-C port and the other end to a power adapter. Plug the power adapter into an electrical outlet. Alternatively, use a power bank or compatible NP-F series battery (not included) for portable power.

3. **Connect Receiver to Display:** Use an HDMI cable to connect the HDMI OUT port on the Receiver unit to the HDMI input port on your display device (e.g., TV, projector, monitor).

4. **Power the Transmitter:** Connect the second USB-C power cable to the Transmitter unit's USB-C port and the other end to its power adapter. Plug the power adapter into an electrical outlet. Similar to the receiver, a power bank or NP-F series battery can be used.

5. **Connect Transmitter to Source:** Use an HDMI cable to connect the HDMI IN port on the Transmitter unit to the HDMI output port on your source device (e.g., laptop, camera, set-top box, PC, DV).

Image: A diagram illustrating the connection process: transmitter connected to a laptop and receiver connected to a television.

6. **Automatic Pairing:** The Transmitter and Receiver units are designed to pair automatically within seconds. No manual pairing or software configuration is typically required. Wait for the connection indicator lights on both units to show a stable connection.

Note: For optimal performance, ensure a clear line of sight between the transmitter and receiver, especially for longer distances. Walls and other obstructions can reduce the effective transmission range.

5. OPERATING INSTRUCTIONS

Once the setup is complete and the units are paired, the system operates automatically.

- **Power On:** Ensure both the Transmitter and Receiver units are powered on.
- **Source Device Output:** Ensure your source device (laptop, camera, etc.) is outputting video via its HDMI port.
- **Display Input:** Set your display device (TV, projector) to the correct HDMI input channel where the Receiver is connected.
- **Signal Transmission:** The video and audio signal from your source device will be wirelessly transmitted to your display.
- **One-Button Sync:** If pairing is lost or you need to re-sync, press the sync button on both the Transmitter and Receiver units simultaneously.

Image: A visual representation of the extender in operation, showing a clear 1080P Full HD signal being transmitted wirelessly to a display.

5.1. Universal Device Compatibility

The system is compatible with a wide range of HDMI-enabled devices:

- **Source Devices:** Cameras, Laptops, Set-top boxes, Switchers, PCs, DVs.
- **Display Devices:** Projectors, TVs, Monitors.

It supports HDMI1.4/HDCP1.4, allowing for protected content streaming from various platforms.

Image: An illustration demonstrating the broad compatibility of the wireless HDMI extender with various input and output devices.

5.2. Transmission Range and Performance

The device offers a long-range 5GHz dual-antenna transmission, minimizing interference and ensuring stable signal coverage.

- **Line-of-Sight (LOS) Range:** Up to 1640 feet (500 meters).
- **Through-Wall Penetration:** Effective range is reduced when transmitting through walls or obstructions. Typical ranges are 164-295 feet (50-90 meters) through complex home environments.
- **Latency:** The system is designed for low latency, suitable for video streaming and presentations. Note: Not recommended for gaming due to potential minor latency.

Image: A graphic depicting the extensive transmission range of 1640 feet and the low latency of 0.15 seconds, with a visual of the transmitter and receiver units.

Image: An overhead view of a house layout illustrating the signal penetration capabilities through walls and the difference between line-of-sight and obstructed transmission ranges.

6. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps:

- **No Signal on Display:**

  - Ensure both Transmitter and Receiver are powered on and their power indicators are lit.
  - Verify all HDMI cables are securely connected to the correct ports (HDMI IN on Transmitter, HDMI OUT on Receiver).
  - Check that your display device is set to the correct HDMI input source.
  - Ensure the source device is outputting an HDMI signal.
  - Try pressing the sync button on both units simultaneously to re-establish pairing.
  - Reduce the distance between the Transmitter and Receiver, and remove any obstructions.

- **Intermittent Signal / Poor Quality:**

  - Ensure antennas are securely attached and oriented correctly.
  - Check for strong interference sources (e.g., Wi-Fi routers, microwaves) operating on the 5GHz band nearby.
  - Move the units closer together or adjust their positions to improve line of sight.
  - Verify that the power supply is stable and sufficient for both units.

- **No Audio:**

  - Check audio settings on your source device.
  - Ensure the display device's volume is not muted or set too low.
  - Confirm HDMI cables are fully inserted.

- **Units Not Pairing:**

  - Ensure both units are powered on.
  - Perform a manual sync by pressing the pairing button on both units.
  - Power cycle both the Transmitter and Receiver units.

7. MAINTENANCE

To ensure the longevity and optimal performance of your Wireless HDMI Extender, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use for extended periods, store the units in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the units and antennas with care to avoid physical damage. Avoid dropping or subjecting them to
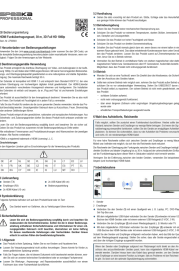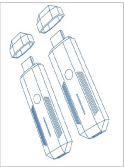
strong impacts.

- **Ventilation:** Ensure the units have adequate ventilation to prevent overheating, especially during prolonged operation. Do not block ventilation holes.
- **Power Supply:** Always use the provided power adapters or compatible power sources to prevent damage.

8. WARRANTY AND SUPPORT

The Tongtion Wireless HDMI Extender comes with a **1-Year Warranty** from the date of purchase.

Tongtion also provides **Lifetime Support** for this product. If you encounter any issues or have questions that are not covered in this manual, please contact Tongtion customer support through their official channels or refer to the 24/7 troubleshooting guides mentioned in the product features.

For further assistance, visit the Tongtion Store on Amazon.

Related Documents - H-1

	PWAYTEK PWTEK-DT248W Wireless HDMI Extender: User Manual, Setup, and Specifications User manual for the PWAYTEK PWTEK-DT248W Wireless HDMI Extender. This guide details package contents, connection steps, pairing procedures, technical specifications, warranty information, and safety precautions for wireless HDMI signal transmission.
	TEK TPUH-460S HDMI 1.4 Extender User Manual Comprehensive user manual for the TEK TPUH-460S HDMI 1.4 Extender with Ethernet & RS-232. Covers product features, package contents, detailed panel descriptions for transmitter and receiver, safety precautions, and technical specifications for extending 4K video signals up to 328 feet.
	Wireless HDMI Extender Quick Start Guide - Setup, Features, and Troubleshooting A comprehensive quick start guide for the Wireless HDMI Extender, detailing its features, ports, connection diagrams, pairing steps, specifications, and troubleshooting solutions for extending HDMI signals wirelessly up to 150 meters.
	Speaka Professional HDMI Wireless Transmission Set - 30m, 3D Full HD 1080p User manual and technical specifications for the Speaka Professional HDMI wireless transmission set (30m, 3D Full HD 1080p). Learn about setup, safety, troubleshooting, and technical data for model 2793803.

WH-001 HDMI Wireless Extender **HDMI Wireless Extender** User Manual HDMI H.265 Wireless Extender (3D Full HD 1080P) Bring High-Definition to your life!	## WH-001 HDMI Wireless Extender User Manual User manual for the WH-001 HDMI Wireless Extender, detailing its features, technical specifications, connection diagram, pairing instructions, installation precautions, and FCC compliance.
User Manual **50M HDMI Wireless Extender** 	## 50M HDMI Wireless Extender User Manual User manual for the 50M HDMI Wireless Extender, detailing features, installation, connection modes (one-to-one, one-to-many, many-to-one), pairing methods, specifications, precautions, FAQs, accessories, and FCC warnings.