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› J-Tech Digital HDMI Wireless Extender Dongle Adapter Kit 1080p 98 Feet w/Airplay, Smart View, Miracast & 4K Upscale [JTECH-WDEX-50M2] User Manual

J-Tech Digital JTECH-WDEX-50M2

J-Tech Digital HDMI Wireless Extender Dongle Adapter Kit User Manual

Model: JTECH-WDEX-50M2

INTRODUCTION

This manual provides detailed instructions for the J-Tech Digital HDMI Wireless Extender Dongle Adapter Kit (JTECH-WDEX-50M2). This device allows for wireless transmission of HDMI audio and video up to 98 FT away without the use of cables! Using 5GHz broadcast technology, it transmits HDMI from source devices like Apple Macbook, Windows PC, Playstation, XBOX and set top boxes. It supports 1080p resolution with features like Airplay, Smart View, and Miracast. It is designed for plug-and-play operation without requiring additional drivers or software, making it ideal for conference rooms, residential use, and educational settings.



Figure 1: J-Tech Digital HDMI Wireless Extender Dongle Adapter Kit (JTECH-WDEX-50M2)

PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1 x JTECH-WDEX-50M2 Transmitter
- 1 x JTECH-WDEX-50M2 Receiver
- 1 x USB-C Cable (for power)
- 1 x USB-C to USB-A Cable (for power)
- 1 x HDMI Cable (short extender)

Packing List

Package Includes:

A. JTECH-WDEX-50M2 Transmitter	1 PCS
B. JTECH-WDEX-50M2 Receiver	1 PCS
C. USB-C Cable	1 PCS
D. USB-C Cable	1 PCS
E. HDMI Cable	1 PCS



Figure 2: Package Contents

PRODUCT OVERVIEW

Receiver Unit

The receiver unit is designed to connect to your display device (TV, monitor, projector). It features multiple ports for versatile connectivity.

- **Power Button:** Used to turn the receiver on or off.
- **USB-C Power Supply Port:** Connects to a power source using the provided USB-C cable.
- **3.5mm Jack:** For audio output.
- **HDMI Port:** Connects to your display via an HDMI cable.
- **VGA Port:** Connects to your display via a VGA cable.
- **Indicator Light:** Provides status feedback (e.g., power, connection status).

Interface

Transmitter



Receiver



Figure 3: Receiver Unit Ports and Controls

Transmitter Unit

The transmitter unit connects to your source device (laptop, PC, game console). It is compact and designed for easy plug-and-play use.

- **Function Button:** Used for various operations, such as initiating screen mirroring or switching modes.
- **USB-C Power Supply Port:** Provides power to the transmitter, especially when the HDMI port cannot supply sufficient power.
- **HDMI Connector:** Plugs directly into your source device's HDMI output.
- **Indicator Light:** Shows the operational status.

Interface

Transmitter



Receiver



Figure 4: Transmitter Unit Ports and Controls

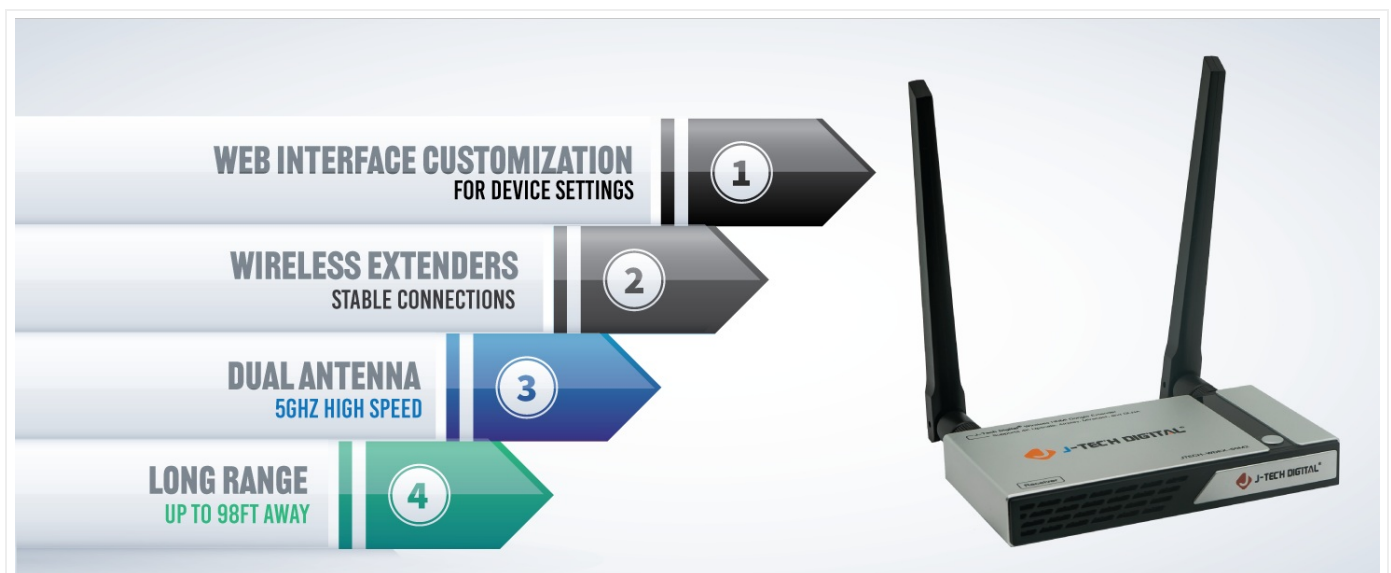
SETUP INSTRUCTIONS

- 1. Connect the Receiver:** Plug the JTECH-WDEX-50M2 Receiver into an available HDMI or VGA port on your display device (TV, monitor, or projector).
- 2. Power the Receiver:** Connect the provided USB-C power cable to the receiver's USB-C Power Supply Port and then to a USB power adapter (not included) or a powered USB port on your display.
- 3. Connect the Transmitter:** Plug the JTECH-WDEX-50M2 Transmitter into the HDMI output port of your source device (e.g., laptop, PC, game console). If your source device does not provide sufficient power via HDMI, connect the USB-C power cable to the transmitter's USB-C Power Supply Port and to a USB power source.
- 4. Power On:** Press the Power Button on the Receiver unit. The indicator lights on both the transmitter and receiver should illuminate, indicating they are powered on.
- 5. Automatic Pairing:** The transmitter and receiver are designed to pair automatically. Once paired, your source device's screen should appear on your display.



Application

Figure 5: Typical Setup Configuration



OPERATING INSTRUCTIONS

Once the transmitter and receiver are connected and powered on, the system operates automatically. The device supports various mirroring technologies for flexible use.

Wireless Screen Mirroring

In addition to direct HDMI transmission, the JTECH-WDEX-50M2 supports wireless casting from compatible devices:

- **Apple Airplay:** For Apple devices (iPhone, iPad, MacBook).
- **Samsung Smart View:** For compatible Samsung devices.
- **Miracast:** For Windows PCs and other Miracast-enabled devices.

To use these features, ensure your device is connected to the same network as the JTECH-WDEX-50M2 Receiver (if applicable, or follow on-screen instructions for direct connection) and select the appropriate mirroring option from your device's settings.



Figure 7: Wireless Streaming Options

4K Upscaling

The device is capable of upscaling 1080p content to 4K resolution when connected to a 4K display, enhancing visual quality.



Figure 8: 1080p to 4K Upscaling

COMPATIBILITY

The JTECH-WDEX-50M2 is compatible with a wide range of input and output devices, offering flexibility for various applications.

Input Devices

- Laptops (Windows, MacBook)
- Desktop PCs
- Gaming Consoles (Playstation, XBOX)
- Set-top Boxes
- Tablets
- Smartphones
- Cameras

Output Devices

- Televisions (TVs)
- Computer Monitors
- Projectors



Figure 9: Device Compatibility Overview



Figure 10: Input and Output Device Flow

SPECIFICATIONS

Feature	Detail
Product Dimensions	4.8 x 2.68 x 0.7 inches
Item Weight	1.06 pounds
Model Number	JTECH-WDEX-50M2
Brand	J-Tech Digital
Hardware Interface	VGA, HDMI
Compatible Devices	Television
Data Transfer Rate	98 Megabits Per Second
UPC	810058920799

Transmitter

Size

Receiver


 HDMI


 VGA


 USB Type-C Port


 Wireless

P&P
 PLUG AND PLAY

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TROUBLESHOOTING

If you encounter issues with your JTECH-WDEX-50M2, please refer to the following common solutions:

- **No Signal/No Picture:**

- Ensure both the transmitter and receiver are properly powered and their indicator lights are on.
- Verify that the HDMI/VGA cables are securely connected to both the receiver and the display.
- Check if the display is set to the correct input source (HDMI or VGA).
- Try power cycling both the transmitter and receiver by unplugging and re-plugging them.
- Ensure the distance between the transmitter and receiver is within the specified range (up to 98 feet) and there are no significant obstructions.
- If using the HDMI transmitter, ensure your source device is providing sufficient power. Use the additional USB-C power cable if needed.

- **Intermittent Connection/Flickering:**

- Reduce the distance between the transmitter and receiver.
- Minimize obstacles (walls, furniture) between the units.
- Check for potential wireless interference from other 5GHz devices.
- Ensure both units have stable power supply.

- **No Audio:**

- Verify that your display's audio is not muted or set to a very low volume.
- Ensure the 3.5mm audio jack is properly connected if you are using it for audio output.
- Check audio settings on your source device.

- **Difficulty with Airplay/Smart View/Miracast:**

- Ensure your mobile device/PC and the JTECH-WDEX-50M2 Receiver are on the same Wi-Fi network.
- Restart both your source device and the JTECH-WDEX-50M2 units.
- Consult your device's manual for specific mirroring instructions.

For further assistance, please contact J-Tech Digital customer support.

MAINTENANCE

To ensure the longevity and optimal performance of your JTECH-WDEX-50M2 Wireless Extender, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Avoid using abrasive cleaners, solvents, or strong chemicals, as they may damage the surface.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the units with care. Avoid dropping them or subjecting them to strong impacts, which can damage internal components.
- **Ventilation:** Ensure the receiver unit has adequate ventilation to prevent overheating. Do not block the ventilation holes.
- **Power Supply:** Always use the provided power cables or compatible alternatives to prevent damage to the device.

WARRANTY AND SUPPORT

All J-Tech Digital products, including the JTECH-WDEX-50M2, come with a **One-Year Manufacturer Replacement Warranty**. This warranty covers defects in materials and workmanship under normal use.

Additionally, J-Tech Digital provides **free lifetime technical support** from their customer support team located in Sugar Land, TX. Support is available from 9 AM to 6 PM CST, Monday through Friday.

For technical assistance or warranty claims, please refer to the contact information available on the J-Tech Digital seller page on Amazon or their official website.



Figure 12: Warranty and Technical Support Information

PRODUCT VIDEO

Watch the official product video for a visual guide on the J-Tech Digital Wireless HDMI Extender Dongle, showcasing its features and ease of use.

Your browser does not support the video tag.

Video 1: J-Tech Digital Wireless HDMI Extender Dongle Overview