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› [DIGITUS DS-55328 Wireless HDMI KVM Extender/Splitter User Manual](#)

Digitus DS-55328

DIGITUS DS-55328 Wireless HDMI KVM Extender/Splitter User Manual

Model: DS-55328

1. INTRODUCTION

The DIGITUS DS-55328 Wireless HDMI KVM Extender Kit is designed to transmit HDMI video and audio signals wirelessly. This kit supports UHD 4K/30Hz resolution over distances up to 150 meters in an unobstructed environment. It consists of a sending unit (Transmitter) and a receiving unit (Receiver).

Key features include KVM functionality, allowing control of the signal source from the receiver unit using a connected mouse and keyboard. An HDMI Loop-Out port on the sending unit enables a local monitor connection for monitoring the output. The system supports point-to-multipoint connections, allowing one transmitter to connect with up to four receivers (additional receivers, model DS-55329, are sold separately).

- Wireless transmission of HDMI signals up to 150 meters (with free view).
- Point-to-multipoint connection: 1 sender (source) + up to 4 receivers (output devices).
- Supports wireless transmission of AV signals with resolutions up to 4K UHD (2160p/30Hz).
- HDMI 2.0 and HDCP 2.2 compliant.
- KVM functionality for mouse/keyboard control at the receiver.
- HDMI Loop-Out on the transmitter for local monitoring.
- Easy plug & play operation, no drivers or software required.
- Touch Screen Back Control compatible via USB connection on receiver.
- Power via USB-C connection and included power supply.
- 128-bit AES encoding and WPA2 protocol for secure transmission.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any items are missing or damaged, contact your retailer.

- 1x DIGITUS DS-55328 Transmitter Unit
- 1x DIGITUS DS-55328 Receiver Unit
- 2x Power Adapters (USB-C)
- 2x HDMI Cables
- 2x USB-C Power Cables
- 1x IR Link Cable

- User Manual (this document)



Image 2.1: Contents of the DS-55328 package, including the transmitter, receiver, power adapters, HDMI cables, USB-C cables, and an IR link cable.

3. PRODUCT OVERVIEW

Familiarize yourself with the ports and indicators on both the Transmitter and Receiver units.

3.1. Transmitter Unit (TX)

- **HDMI IN:** Connects to your HDMI source device (e.g., PC, laptop, media player).
- **HDMI OUT (Loop-Out):** Connects to a local monitor for direct display of the source signal.
- **USB-C:** Power input port.
- **IR Link:** Connects to the IR blaster cable for controlling the source device.
- **Button:** For pairing or mode selection.
- **Power Switch:** To turn the unit on or off.

3.2. Receiver Unit (RX)

- **HDMI OUT:** Connects to your display device (e.g., TV, monitor, projector).
- **USB Ports:** Connects to a keyboard, mouse, or touch screen panel for KVM functionality.
- **USB-C:** Power input port.
- **Status Display:** Indicates connection status and other operational information.
- **Button:** For pairing or mode selection.
- **Power Switch:** To turn the unit on or off.

DS-55328

4K Wireless HDMI KVM Extender Set, 150 m



Transmission Distance



Support 4K/30Hz



USB Type



HDMI Version



HDCP Version

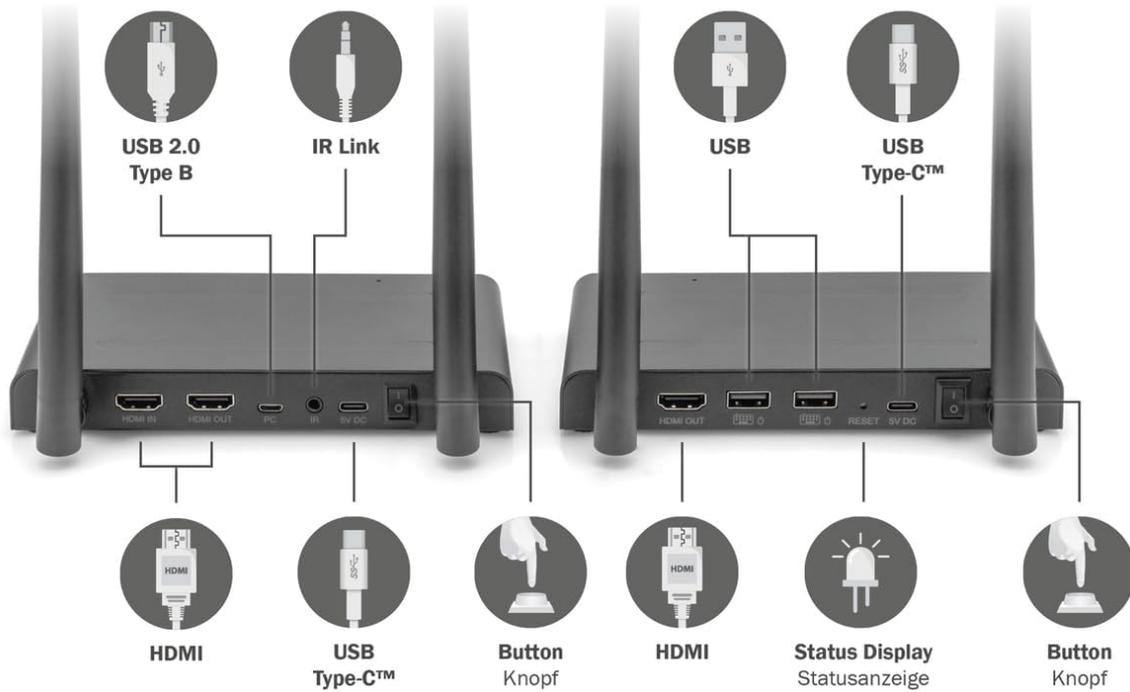


Image 3.1: Detailed diagram showing the various ports and features on both the Transmitter and Receiver units of the DS-55328.



Image 3.2: Front view of the DS-55328 Transmitter and Receiver units, highlighting their compact design.



Image 3.3: Rear view of the DS-55328 Transmitter and Receiver units, showing all input and output ports.

4. SETUP INSTRUCTIONS

Follow these steps to set up your Wireless HDMI KVM Extender Kit.

4.1. Point-to-Point Connection

1. **Connect Source to Transmitter:** Use an HDMI cable to connect your source device (e.g., PC, laptop) to the **HDMI IN** port on the DS-55328 Transmitter unit.
2. **Connect Local Monitor (Optional):** If you wish to monitor the source locally, connect an HDMI cable from the

HDMI OUT (Loop-Out) port on the Transmitter to your local monitor.

3. **Power the Transmitter:** Connect one of the provided USB-C power cables to the **USB-C** port on the Transmitter, and then plug the power adapter into an electrical outlet.
4. **Connect Receiver to Display:** Use an HDMI cable to connect your display device (e.g., TV, monitor) to the **HDMI OUT** port on the DS-55328 Receiver unit.
5. **Connect KVM Peripherals (Optional):** For KVM functionality, connect your USB keyboard and mouse to the **USB ports** on the Receiver unit.
6. **Power the Receiver:** Connect the second USB-C power cable to the **USB-C** port on the Receiver, and then plug the power adapter into an electrical outlet.
7. **Power On:** Turn on both the Transmitter and Receiver units using their respective power switches. Ensure your source device and display are also powered on.
8. **Pairing (if necessary):** The units should automatically pair. If not, refer to the operating instructions for manual pairing.

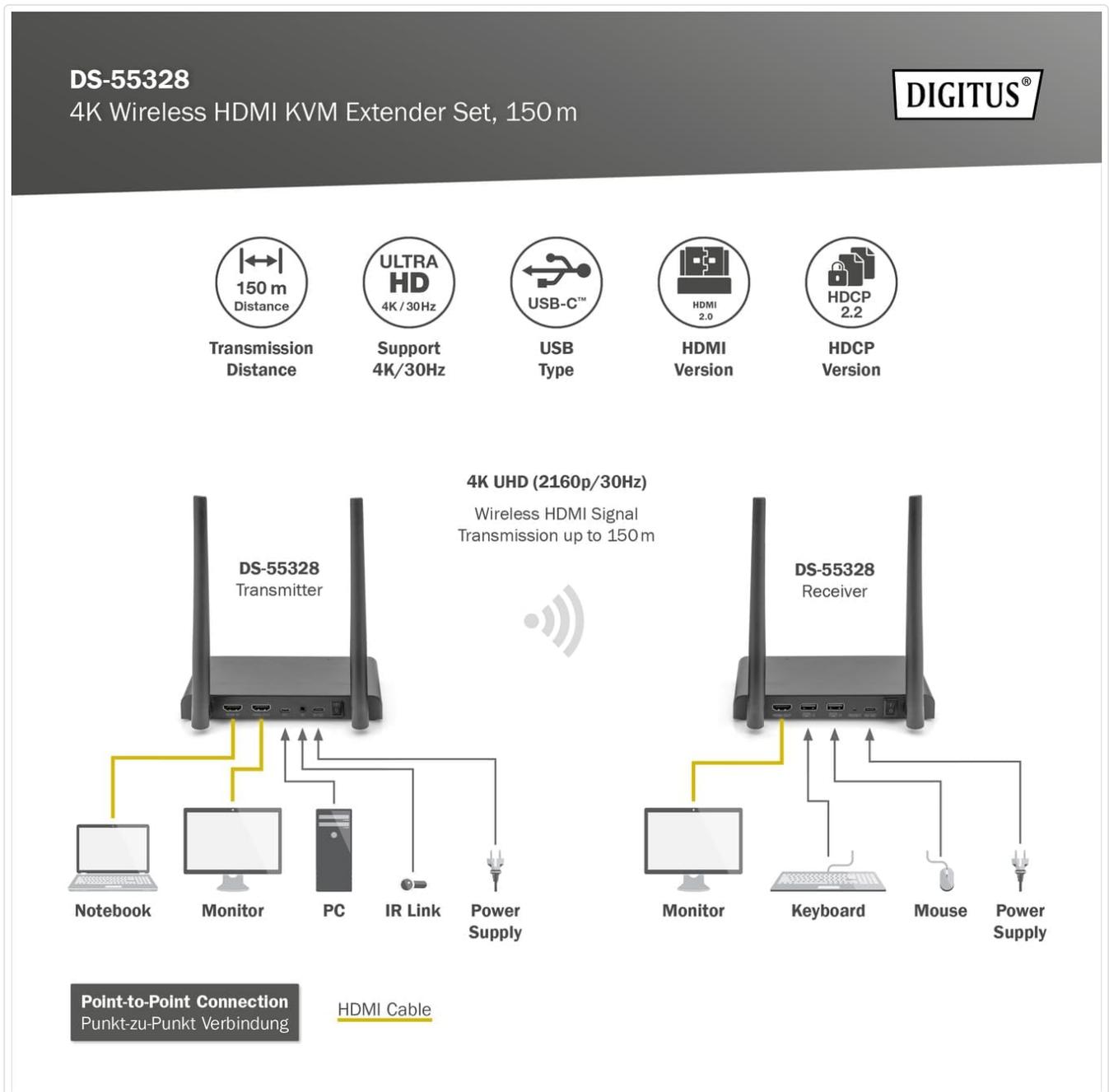


Image 4.1: Diagram illustrating a typical point-to-point connection setup for the DS-55328, showing connections from a source to the transmitter and from the receiver to a display with KVM peripherals.

4.2. Point-to-Multipoint Connection

The DS-55328 supports connecting one Transmitter to up to four Receiver units (DS-55329, sold separately).

1. Follow steps 1-3 from the Point-to-Point Connection for setting up the Transmitter unit.
2. For each additional Receiver unit (DS-55329), follow steps 4-6 from the Point-to-Point Connection.
3. Ensure all Transmitter and Receiver units are powered on. The Transmitter will broadcast the signal to all paired Receivers.

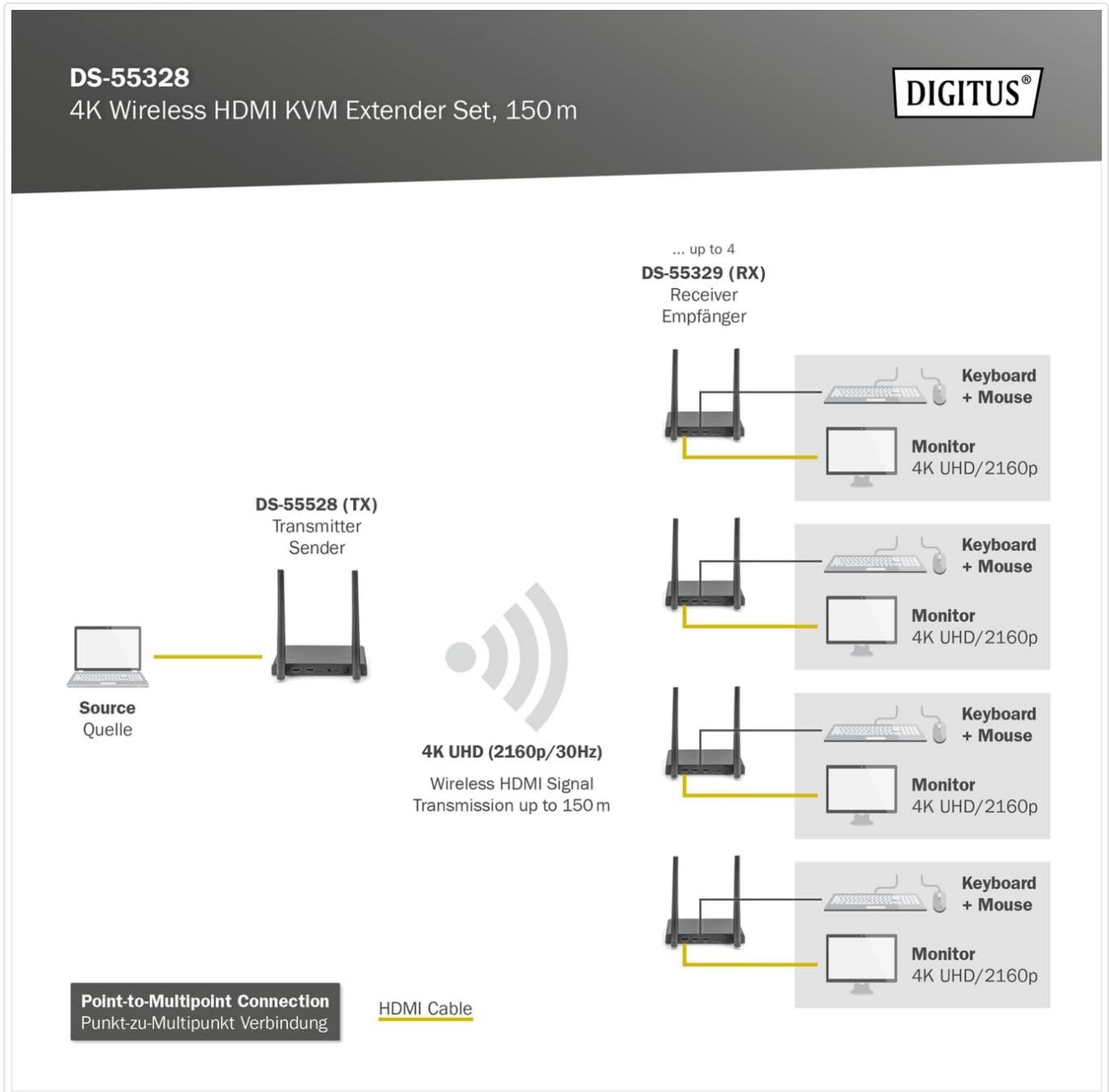


Image 4.2: Diagram showing a point-to-multipoint connection setup, where one DS-55328 Transmitter sends signals to multiple DS-55329 Receiver units.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

Use the power switch on each unit to turn it on or off. Ensure both Transmitter and Receiver units are powered on for operation.

5.2. KVM Functionality

Once a USB keyboard and mouse are connected to the Receiver's USB ports, you can control the source device connected to the Transmitter. This allows for remote operation of your computer or other KVM-compatible source.

5.3. IR Control

Connect the IR Link cable to the IR port on the Transmitter. Position the IR blaster head near the IR receiver of your source device. This enables you to use the source device's remote control from the location of the Receiver unit.

5.4. Status Indicators

The Status Display on the Receiver unit provides visual feedback on the connection status. Refer to the device's LED indicators for specific states (e.g., power, signal, connection status).

5.5. Pairing

In most cases, the Transmitter and Receiver units will automatically pair upon power-up. If pairing does not occur, press the 'Button' on both the Transmitter and Receiver units simultaneously for a few seconds until the status indicators confirm a successful connection.

6. MAINTENANCE

To ensure optimal performance and longevity of your DIGITUS DS-55328, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the units. Do not use liquid or aerosol cleaners, as they may damage the casing or internal components.
- **Environment:** Operate the device in a well-ventilated area. Avoid exposing the units to extreme temperatures, high humidity, or direct sunlight.
- **Storage:** When not in use for extended periods, store the units in a cool, dry place, away from dust and moisture.
- **Cables:** Ensure all cables are connected securely and are not bent or crimped, which could lead to signal loss or damage.

7. TROUBLESHOOTING

If you encounter issues with your DS-55328, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
No image or black screen on display.	<ul style="list-style-type: none">• Power not connected.• Incorrect HDMI connection.• Units not paired.• Signal interference.• Resolution incompatibility.	<ul style="list-style-type: none">• Ensure both Transmitter and Receiver are powered on and connected to power.• Verify all HDMI cables are securely connected to the correct ports.• Press the 'Button' on both units to re-initiate pairing.• Reduce distance between units or remove obstructions.• Ensure your display supports 4K/30Hz. Try a lower resolution on the source if possible.

Problem	Possible Cause	Solution
Poor image quality or flickering.	<ul style="list-style-type: none"> • Weak wireless signal. • Interference from other devices. • Cable quality. 	<ul style="list-style-type: none"> • Move units closer together or clear line of sight. • Avoid placing units near other wireless devices (e.g., Wi-Fi routers, microwaves). • Use high-quality HDMI cables.
KVM (keyboard/mouse) not responding.	<ul style="list-style-type: none"> • USB connection issue. • KVM feature not active. • Incompatible peripherals. 	<ul style="list-style-type: none"> • Ensure keyboard/mouse are properly connected to the Receiver's USB ports. • Try different USB ports or restart the units. • Some specialized keyboards/mice may not be fully compatible.
IR control not working.	<ul style="list-style-type: none"> • IR blaster not positioned correctly. • IR port connection issue. 	<ul style="list-style-type: none"> • Ensure the IR blaster head is directly facing the IR receiver of the source device. • Verify the IR Link cable is securely connected to the Transmitter's IR port.
Audio delay/synchronization issues.	<ul style="list-style-type: none"> • Wireless transmission latency. 	<ul style="list-style-type: none"> • Wireless transmission inherently introduces a small amount of latency. For applications where precise audio-video synchronization is critical (e.g., live music, professional broadcasting), wireless extenders may not be ideal. This is generally not an issue for typical home entertainment or presentation use.

8. SPECIFICATIONS

Feature	Detail
Model Number	DS-55328
Transmission Distance	Up to 150 meters (unobstructed viewing)
Supported Resolution	UHD 4K/30Hz (2160p/30Hz)
HDMI Version	HDMI 2.0
HDCP Version	HDCP 2.2
KVM Functionality	Yes (Keyboard/Mouse via USB)
Loop-Out	Yes (on Transmitter)

Feature	Detail
IR Control	Yes
Point-to-Multipoint	1 Transmitter to up to 4 Receivers (DS-55329)
Security	128-bit AES encryption, WPA2 protocol
Power Supply	USB-C (5V DC)
Product Dimensions	3.11 x 6.06 x 0.87 inches
Item Weight	2.64 pounds
Manufacturer	DIGITUS

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official DIGITUS website. Technical support may be available through your retailer or the manufacturer's support channels.

Please retain your proof of purchase for warranty claims.