

SpeaKa SP-12811660

SpeaKa Professional SP-HDE-620 Wireless HDMI Extender with KVM Function User Manual

Model: SP-12811660

1. INTRODUCTION

Thank you for choosing the SpeaKa Professional SP-HDE-620 Wireless HDMI Extender with KVM Function. This device is designed to provide a seamless, high-quality wireless extension of HDMI and KVM signals. It allows for remote video playback on another screen with minimal detectable delay, even when devices are in different rooms.

The SP-HDE-620 transmits 4K signals up to 100 meters at 30Hz and supports output resolutions up to 4K at 30Hz, with support for 4K 60Hz output. It also features RS232 control for enhanced system integration.

2. SAFETY INFORMATION

- Read all instructions carefully before operating the device.
- Do not expose the device to moisture, extreme temperatures, or direct sunlight.
- Use only the provided power adapters.
- Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified personnel.
- Keep the device away from strong magnetic fields.

3. PACKAGE CONTENTS

Please check the package contents to ensure all items are present:

- 1x SpeaKa Professional SP-HDE-620 Transmitter Unit
- 1x SpeaKa Professional SP-HDE-620 Receiver Unit
- 2x Power Adapters (DC 12V)
- Antennas (pre-attached or to be attached)
- User Manual (this document)

4. PRODUCT OVERVIEW

4.1. Front Panel



This image displays the front panels of both the transmitter and receiver units of the SpeaKa Professional SP-HDE-620 Wireless HDMI Extender. Each unit features LED indicators for power, link status, HDMI connection, and KVM ID, along with buttons for mode selection and KVM pairing.

- **PWR LED:** Indicates power status.
- **LINK LED:** Indicates wireless link status between transmitter and receiver.
- **HDMI LED:** Indicates HDMI signal input/output status.
- **ID LEDs (1-8):** Indicate the selected KVM ID.
- **MODE Button:** Used to switch operating modes.
- **SW Button:** Used for KVM switching (on receiver).
- **SP Button:** Used for KVM pairing (on receiver).

4.2. Rear Panel



This image shows the rear panels of the SpeaKa Professional SP-HDE-620 Wireless HDMI Extender units. Both units include a DC 12V power input, HDMI ports (HDMI IN on transmitter, HDMI OUT on receiver), AUX IN/OUT, IR IN/OUT,

RS232 ports, a Reset button, and a USB PC port (on receiver for KVM).

- **DC 12V:** Power input port.
- **HDMI IN (Transmitter):** Connects to the HDMI source device.
- **HDMI OUT (Receiver):** Connects to the HDMI display device.
- **AUX IN/OUT:** Audio auxiliary ports.
- **IR IN/OUT:** Infrared extension ports for remote control.
- **RS232:** Serial communication port for control.
- **RESET:** Button to reset the device.
- **USB PC (Receiver):** Connects to a PC for KVM functionality (keyboard/mouse).

5. SETUP INSTRUCTIONS

Follow these steps to set up your SpeaKa Professional SP-HDE-620 Wireless HDMI Extender:



This image illustrates a typical setup scenario for the SpeaKa Professional SP-HDE-620. A laptop is connected to the transmitter unit, which then wirelessly transmits the signal to a receiver unit connected to a projector, demonstrating a wireless display solution.

1. **Connect Transmitter:** Connect your HDMI source device (e.g., laptop, Blu-ray player) to the **HDMI IN** port of the transmitter unit using an HDMI cable.
2. **Connect Receiver:** Connect your HDMI display device (e.g., TV, projector, monitor) to the **HDMI OUT** port of the receiver unit using an HDMI cable.
3. **Power On:** Connect the provided DC 12V power adapters to both the transmitter and receiver units, then plug them into power outlets. The **PWR LED** on both units should illuminate.
4. **Establish Link:** The transmitter and receiver units will automatically attempt to establish a wireless link. Once connected, the **LINK LED** on both units will illuminate steadily.
5. **KVM Setup (Optional):** If using KVM functionality, connect your keyboard and mouse to the USB ports on the receiver unit. Connect the **USB PC** port on the receiver to your computer (source) via a USB cable.
6. **Verify Signal:** Ensure your display device is set to the correct HDMI input. The video and audio from your source device should now be displayed wirelessly.

6. OPERATING INSTRUCTIONS

6.1. Basic Operation

- Once the link is established, the extender operates automatically. The source device's video and audio will be transmitted to the connected display.
- Ensure both units have clear line-of-sight or minimal obstructions for optimal performance and range.

6.2. KVM Functionality

- If KVM is set up, you can control your source computer remotely using the keyboard and mouse connected to the receiver unit.
- Use the **SW** button on the receiver to switch between KVM sources if multiple KVM connections are configured (refer to advanced settings for multi-KVM setup).
- The **SP** button is used for KVM pairing, typically during initial setup or troubleshooting if KVM control is not responsive.

6.3. RS232 Control

The RS232 port allows for integration with control systems. Refer to the technical specifications for the RS232 command set if you intend to use this feature.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the surfaces of the units. Do not use liquid or aerosol cleaners.
- **Storage:** When not in use for extended periods, disconnect the power adapters and store the units in a cool, dry place.
- **Ventilation:** Ensure proper ventilation around the units to prevent overheating. Do not block any ventilation openings.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No picture on display	No power; Loose HDMI cables; No wireless link; Incorrect display input.	Check power connections; Ensure HDMI cables are securely connected; Verify LINK LED is solid; Select correct HDMI input on display.
Picture flickering or unstable	Weak wireless signal; Interference; Distance too great.	Reduce distance between units; Remove obstructions; Avoid other 5GHz devices; Check for strong Wi-Fi interference.
KVM (keyboard/mouse) not working	USB cable not connected; KVM pairing issue; Driver conflict.	Ensure USB PC cable is connected from receiver to source PC; Press SP button to re-pair KVM; Try different USB ports or devices.
No audio	Audio settings on source/display; HDMI cable issue.	Check audio output settings on source and input settings on display; Try a different HDMI cable.

9. SPECIFICATIONS

Feature	Specification
Brand	SpeaKa Professional
Model Number	SP-12811660
Wireless Frequency	5 GHz
Transmission Distance	Up to 100 meters (line of sight)
Max Resolution (Input)	4K @ 30Hz
Max Resolution (Output)	4K @ 30Hz (Supports 4K @ 60Hz output)
KVM Function	Yes (Keyboard, Video, Mouse)
Control	RS232
Power Supply	DC 12V

10. WARRANTY INFORMATION

SpeaKa Professional products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official SpeaKa Professional website. Keep your purchase receipt as proof of purchase for any warranty claims.

11. CUSTOMER SUPPORT

If you encounter any issues or have questions regarding your SpeaKa Professional SP-HDE-620 Wireless HDMI Extender that are not covered in this manual, please contact SpeaKa Professional customer support. Contact details can typically be found on the product packaging, the official website, or your purchase documentation.