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UeeVii CPE450

UeeVii CPE450 Wireless Bridge Instruction Manual

Model: CPE450 | Brand: UeeVii

1. Introduction

This manual provides detailed instructions for the installation, configuration, and operation of your UeeVii CPE450 Wireless Bridge. The CPE450 is designed for outdoor point-to-point wireless connectivity, offering a stable and efficient solution for extending network coverage over long distances. Please read this manual thoroughly before use to ensure proper setup and optimal performance.

2. Package Contents

Verify that all items are present in your package:

- UeeVii CPE450 Wireless Bridge Units (2 units)
- Power over Ethernet (PoE) Adapters (2 units)
- Ethernet Cables (2 units)
- Mounting Brackets (2 units)
- Mounting Hardware (screws, anchors, cable ties)
- Quick Start Guide

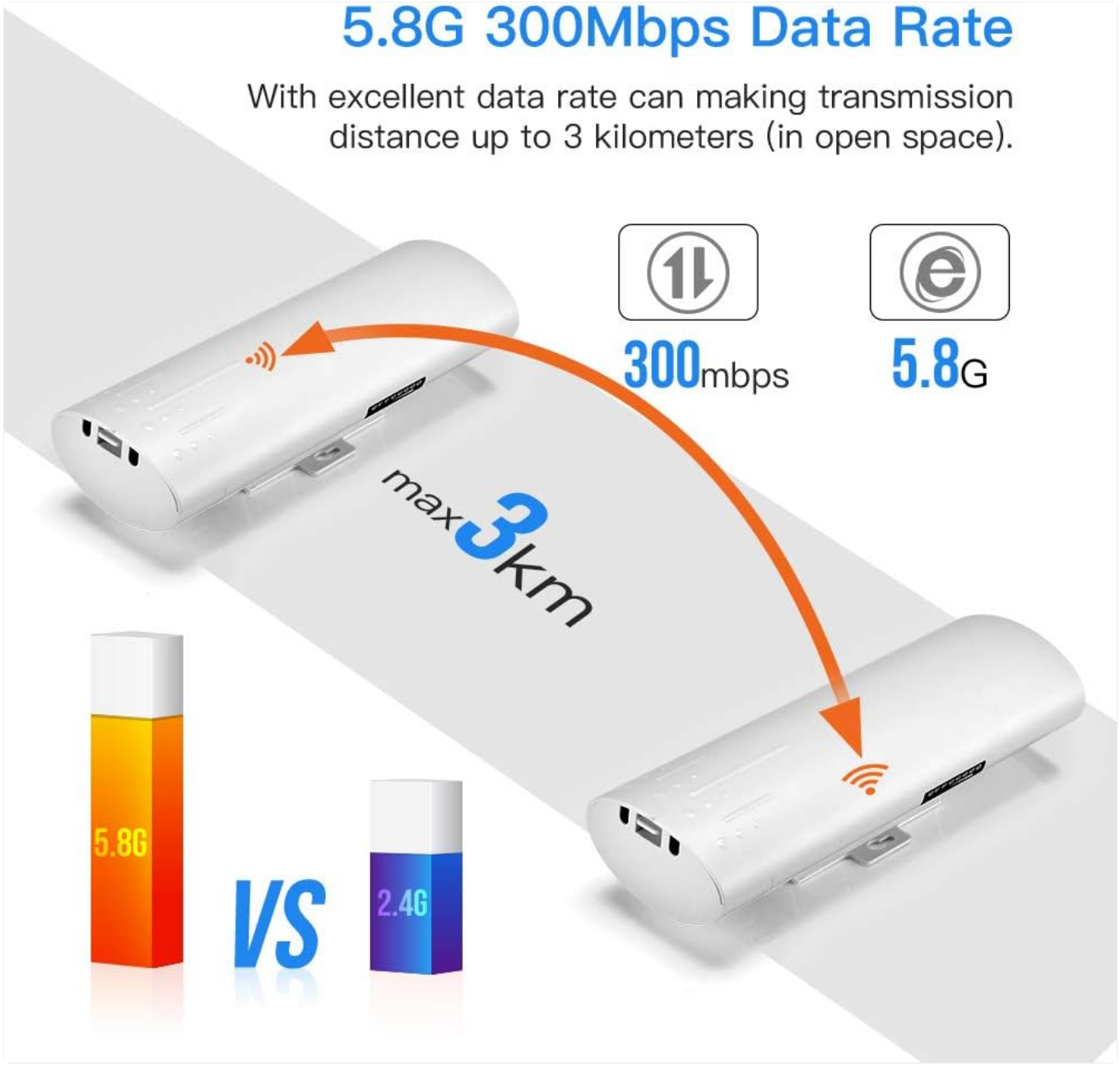


Image: Two UeeVii CPE450 Wireless Bridge units, representing the core components of the package.

3. Product Overview

3.1 Key Features

- **Enhanced Dual 100Mbps Ports:** Provides reliable connections with dual 10/100Mbps RJ45 ports.
- **High Data Transfer Speed:** Up to 300Mbps between point-to-point bridges.
- **Versatile Network Expansion:** Extends network to distant buildings like barns, shops, or garages.
- **Starlink Compatibility:** Can be paired with Starlink routers for extended coverage.
- **Effortless Surveillance Setup:** Connects IP cameras for monitoring large areas without complex wiring.
- **Outdoor Durability:** IP65 level waterproof for outdoor installation.
- **5.8GHz Wireless Technology:** Operates on the 5.8GHz frequency band for stable connections.



Image: Diagram highlighting 5.8GHz wireless technology, suitable for point-to-multipoint and point-to-point networking.

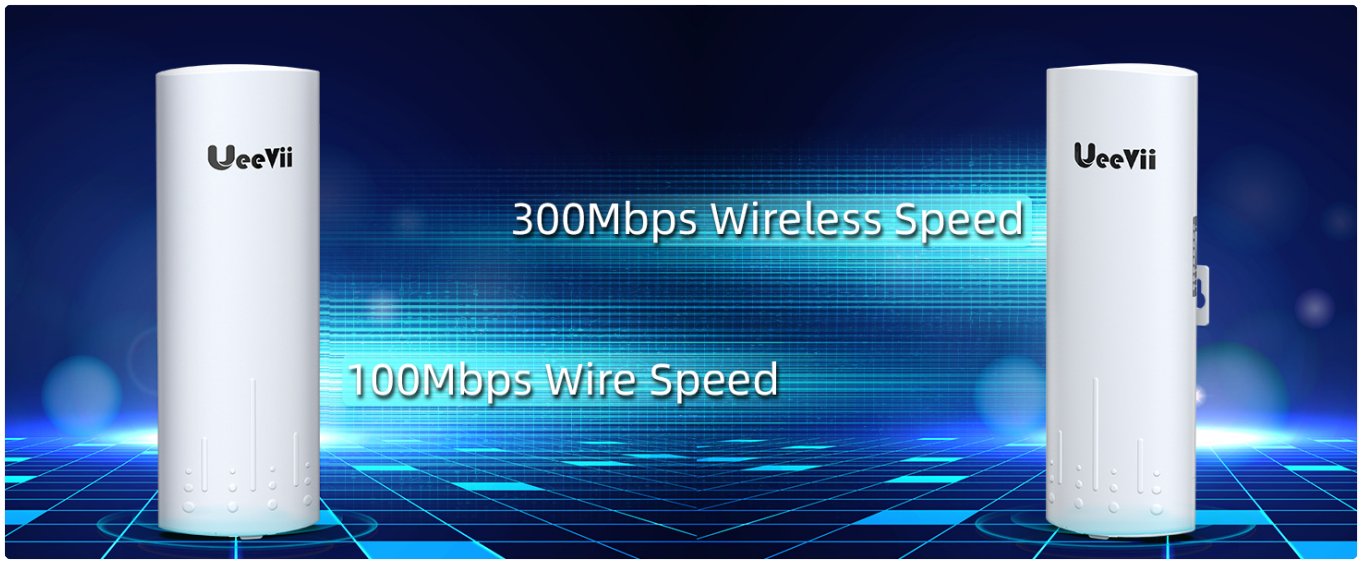


Image: Diagram illustrating the CPE450's 300Mbps wireless speed and 100Mbps wired speed capabilities.

3.2 Transmission Distance

The CPE450 wireless bridge is capable of transmitting data up to 3 kilometers (1.8 miles) in open space, making it ideal for extending networks to distant locations.

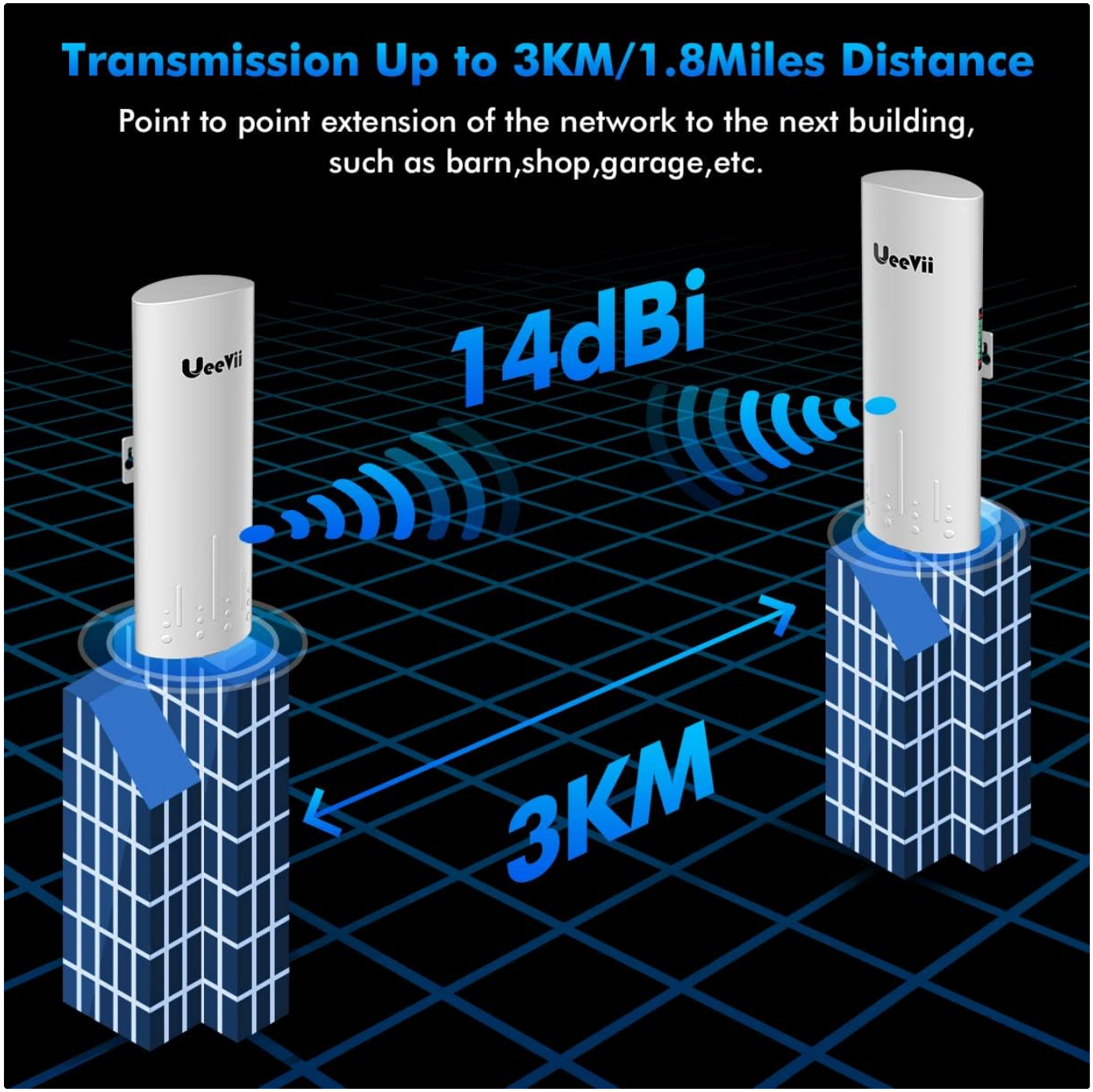


Image: Illustration of two CPE450 units establishing a point-to-point connection over a distance of up to 3 kilometers.

4. Setup Instructions

4.1 Mounting the Devices

The CPE450 units should be mounted outdoors in a location with a clear line of sight between them for optimal performance. Use the provided mounting brackets and hardware.

1. Attach the mounting bracket to a pole or wall using the appropriate screws and anchors.
2. Secure the CPE450 unit to the bracket. Ensure it is firmly attached and can be adjusted for alignment.
3. Repeat for the second CPE450 unit, ensuring both devices face each other directly.

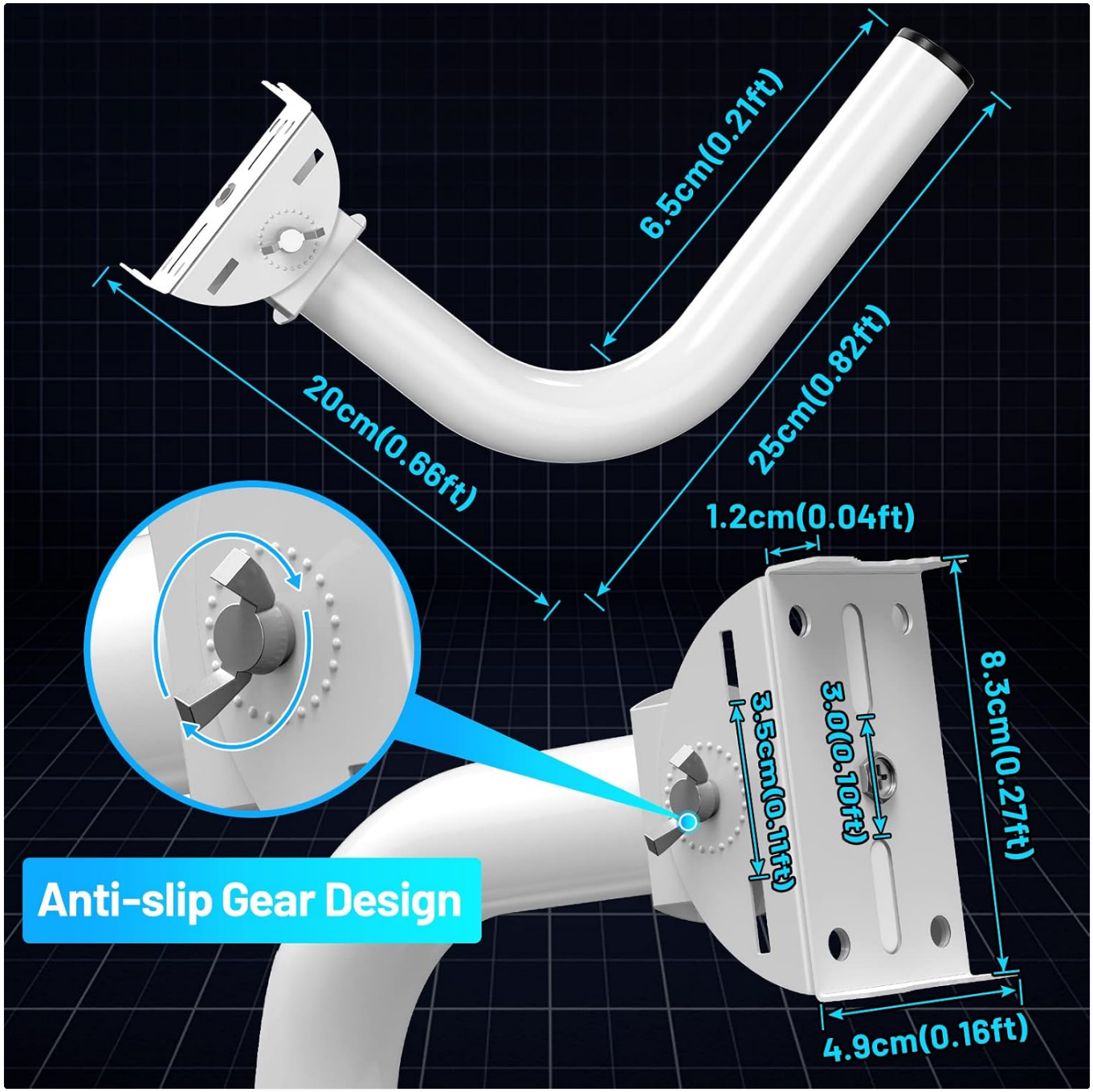


Image: Detailed view of the mounting bracket, including dimensions and the anti-slip gear design for secure positioning.



Image: Various application examples demonstrating how the CPE450 can be mounted on poles and walls for outdoor use.

4.2 Connecting the Devices

The CPE450 units are powered via Power over Ethernet (PoE). Connect them as follows:

1. Connect one end of an Ethernet cable to the LAN port of the CPE450 unit.
2. Connect the other end of the Ethernet cable to the PoE port of the PoE adapter.
3. Connect an Ethernet cable from the LAN port of the PoE adapter to your router or network switch.
4. Plug the PoE adapter into a power outlet.
5. Repeat these steps for the second CPE450 unit.



Image: Two detailed diagrams illustrating typical connection scenarios: one for point-to-point network extension between buildings and another for extending camera monitoring range.

4.3 Configuration (Master/Slave)

One CPE450 unit must be configured as a **Master Bridge** and the other as a **Slave Bridge**. Refer to the Quick Start Guide for specific steps on accessing the device's web interface and setting the mode. Typically, this involves:

- Connecting a computer directly to one CPE450's LAN port (via its PoE adapter).
- Accessing the device's default IP address in a web browser.
- Logging in with default credentials (usually provided in the Quick Start Guide).
- Selecting 'Master' mode for one unit and 'Slave' mode for the other.
- Ensuring both units are set to the same wireless channel and security settings.

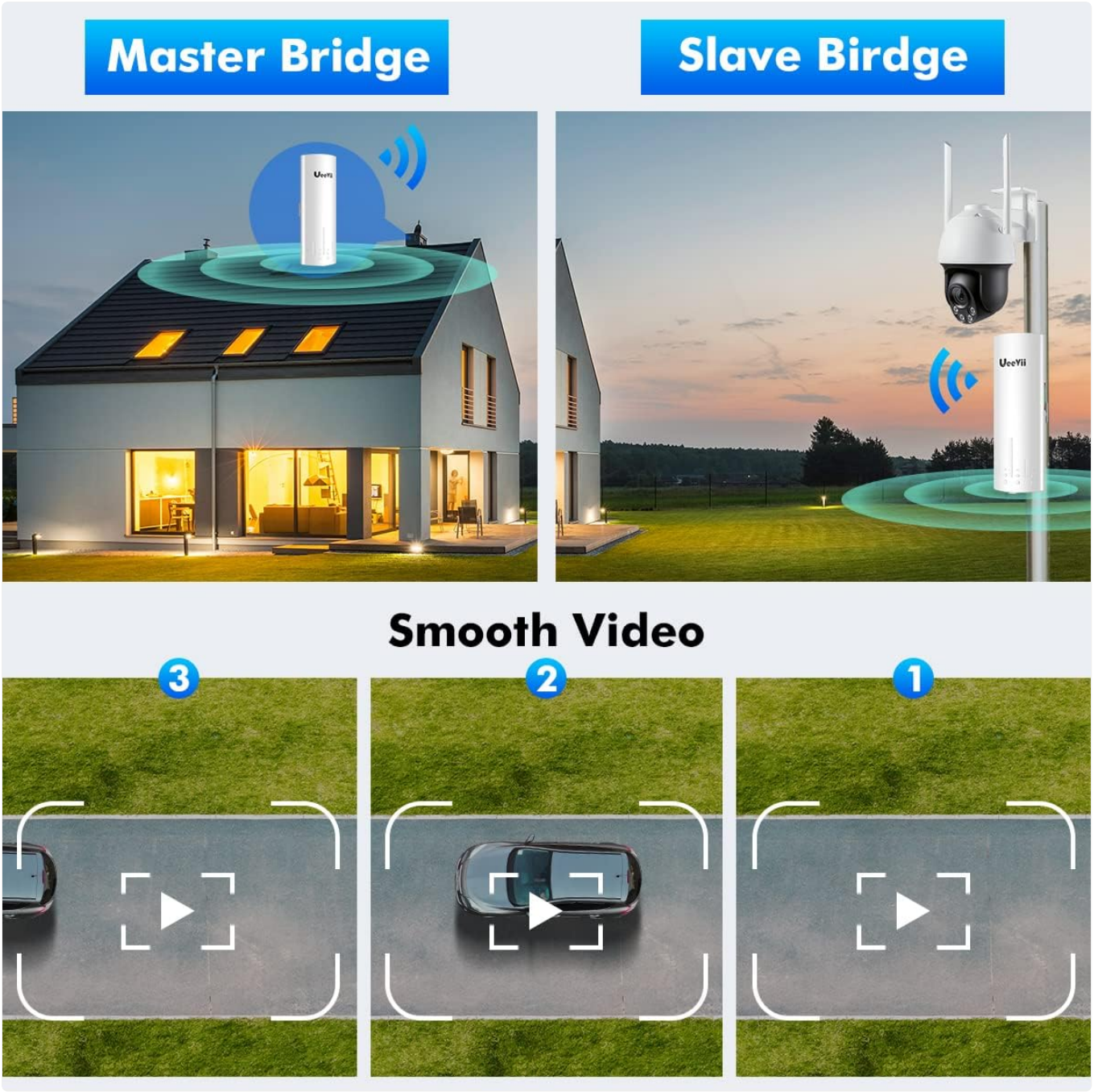


Image: Visual representation of a Master Bridge connected to a main network (house) and a Slave Bridge extending connectivity to a remote location (camera system).

5. Operating Instructions

5.1 Point-to-Point Network Extension

Once configured as Master and Slave, the CPE450 units will automatically establish a wireless link. This creates a transparent Ethernet bridge, allowing devices connected to the Slave unit to access the network provided by the Master unit. This is suitable for:

- Extending home or office networks to outbuildings.
- Sharing internet connectivity with neighboring properties.
- Connecting remote network devices such as computers, printers, or access points.

5.2 Surveillance System Integration

The CPE450 is ideal for extending surveillance systems. Connect IP cameras to the Slave unit, which then wirelessly transmits

the video feed back to a DVR/NVR or monitoring station connected to the Master unit. This eliminates the need for long cable runs.



Image: Examples of diverse applications for the CPE450, including barns, garages, warehouses, shops, and farms.

6. Maintenance

To ensure the longevity and optimal performance of your UeeVii CPE450 Wireless Bridge, follow these maintenance guidelines:

- **Regular Inspection:** Periodically check the physical condition of the devices and mounting hardware for any signs of wear, damage, or loose connections.
- **Clear Line of Sight:** Ensure that there are no new obstructions (e.g., growing trees, new buildings) blocking the line of sight between the two units.
- **Firmware Updates:** Check the UeeVii official website for any available firmware updates. Updating firmware can improve performance, add features, and fix bugs.
- **Cleaning:** Gently clean the exterior of the devices with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Power Cycle:** If experiencing minor connectivity issues, try power cycling both CPE450 units by unplugging their PoE adapters for 10 seconds and then plugging them back in.



Image: The UeeVii CPE450 unit shown in a winter landscape, emphasizing its IP65 waterproof rating and suitability for various outdoor weather conditions.

7. Troubleshooting

If you encounter issues with your CPE450 Wireless Bridge, refer to the following troubleshooting tips:

- **No Link/Poor Signal:**
  - Ensure a clear line of sight between the Master and Slave units.
  - Verify that both units are powered on and their indicator lights are functioning correctly.
  - Check the alignment of the units. Slight adjustments can significantly improve signal strength.
  - Confirm that both units are configured as Master and Slave, respectively, and are on the same wireless channel.
- **No Internet Access:**
  - Verify that the main router connected to the Master unit has internet access.
  - Check all Ethernet cable connections for proper seating and integrity.

- Ensure the PoE adapters are functioning and providing power.
- Temporarily connect a device directly to the Master unit's LAN port (via its PoE adapter) to confirm local network connectivity.

- **Slow Speed:**
  - Check for environmental interference (e.g., other 5.8GHz devices, large metal objects).
  - Ensure the units are optimally aligned.
  - Reduce the distance between units if possible, or ensure no new obstructions have appeared.
  - Update firmware to the latest version.
- **Cannot Access Web Interface:**
  - Ensure your computer's IP address is in the same subnet as the CPE450's default IP.
  - Try a different web browser.
  - Reset the device to factory defaults (refer to the Quick Start Guide for the reset procedure) and reconfigure.

8. Specifications

Feature	Specification
Brand	UeeVii
Model Name	CPE450
Frequency Band Class	Dual-Band (5.8 GHz)
Wireless Communication Standard	802.11ac
Data Transfer Rate	300 megabits per second (Wireless)
LAN Port Bandwidth	100 Mbps (Dual RJ45 ports)
Antenna Type	Fixed (14dBi gain)
Coverage	Wide Range (up to 3KM)
Security Protocol	WPS
Control Method	Touch (likely refers to WPS button or simplified setup)
Voltage	24 volts
Color	White
Unit Count	2 Count

9. Warranty and Support

UeeVii products are designed for reliability and performance. For warranty information, technical support, or further assistance, please refer to the warranty card included in your package or visit the official UeeVii website. Keep your purchase receipt for warranty claims.
UeeVii Official Website: UeeVii Store on Amazon

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