

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

Manuals.plus /

› [TP-Link](#) /

› TP-Link Deco X50-Outdoor AX3000 Whole Home Mesh WiFi 6 Unit Instruction Manual

## TP-Link Deco X50-Outdoor

# TP-Link Deco X50-Outdoor AX3000 Whole Home Mesh WiFi 6 Unit

Model: Deco X50-Outdoor

## 1. INTRODUCTION

---

This manual provides detailed instructions for the installation, operation, and maintenance of your TP-Link Deco X50-Outdoor AX3000 Whole Home Mesh WiFi 6 Unit. The Deco X50-Outdoor is designed to extend your mesh WiFi network to outdoor and indoor spaces, providing robust and stable wireless connectivity. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

## 2. SAFETY INFORMATION

---

Always follow these basic safety precautions to reduce the risk of fire, electric shock, and injury:

- Do not expose this device to water or moisture.
- Do not attempt to disassemble, repair, or modify the device.
- Use only the power adapter provided with the device.
- Ensure the device is installed in a stable location to prevent it from falling.
- Keep the device away from heat sources and direct sunlight.
- For outdoor installation, ensure all cable connections are properly sealed to prevent water ingress.

## 3. PACKAGE CONTENTS

---

Verify that your package contains the following items:

- 1 x TP-Link Deco X50-Outdoor Unit
- 1 x Power Adapter
- 1 x Ethernet Cable
- Mounting Kit (includes mounting bracket, screws, and wall plugs)
- Quick Installation Guide



Image: The retail packaging for the TP-Link Deco X50-Outdoor unit, showing the device and its key features.

## 4. PRODUCT OVERVIEW

The Deco X50-Outdoor is a cylindrical, white unit designed for both outdoor and indoor use. It features an IP65 rating for waterproof and dustproof protection, making it suitable for various weather conditions.

### 4.1 Device Layout



Image: Front view of the TP-Link Deco X50-Outdoor unit, showcasing its sleek, cylindrical design and 'deco outdoor' branding.



Image: The bottom of the Deco X50-Outdoor unit, revealing the port cover and the attachment point for the mounting bracket.

## 4.2 Ports and Buttons

Under the protective cover at the bottom of the unit, you will find the following:

- **PoE Port:** Used for Power over Ethernet (PoE) connection, providing both power and data through a single Ethernet cable.
- **LAN Ports (2):** For connecting wired devices or for backhaul connection to other Deco units.
- **Power Port:** For connecting the included power adapter when not using PoE.
- **Reset Button:** A small button to reset the device to factory settings.



## Supports PoE/AC Power Supply

Image: A close-up view of the PoE and AC power supply ports located at the base of the Deco X50-Outdoor unit, with labels indicating their functions.

### 5. SETUP

---

Follow these steps to set up your Deco X50-Outdoor unit. It is recommended to use the TP-Link Deco app for a guided setup process.

#### 5.1 Download the Deco App

1. Scan the QR code in the Quick Installation Guide or search for "TP-Link Deco" in the App Store or Google Play.
2. Download and install the Deco app on your smartphone or tablet.

#### 5.2 Physical Installation

The Deco X50-Outdoor can be mounted on a pole, wall, or placed on a tabletop.

1. **Choose a Location:** Select a location that provides optimal WiFi coverage and is within range of your existing Deco network (if extending). For outdoor use, ensure it's protected from direct impact and accessible for power/Ethernet.
2. **Mounting:**
  - **Pole Mount:** Use the provided straps to secure the mounting bracket to a pole.

- **Wall Mount:** Drill holes, insert wall plugs, and screw the mounting bracket to the wall.
- **Tabletop:** Simply place the unit on a flat, stable surface.

### 3. Connect Power:

- **Using Power Adapter:** Connect the provided power adapter to the power port and plug it into an electrical outlet.
- **Using PoE:** Connect an Ethernet cable from a PoE-enabled switch or injector to the PoE port on the Deco unit.

4. **Connect to Existing Network (Optional):** If you are using the Deco X50-Outdoor as a satellite unit, it will connect wirelessly to your main Deco unit. For a wired backhaul, connect an Ethernet cable from one of the LAN ports to your main Deco unit or network switch.



Image: The Deco X50-Outdoor unit securely mounted on an outdoor pole, demonstrating a typical installation scenario.

## 5.3 App-Guided Setup

1. Open the Deco app and log in with your TP-Link ID. If you don't have one, create an account.
2. Tap the "+" icon in the top right corner to add a new Deco unit.
3. Select your Deco model (X50-Outdoor) and follow the on-screen instructions to complete the setup. The app will

guide you through connecting the unit and integrating it into your existing Deco mesh network.

## 6. OPERATING

---

Once set up, your Deco X50-Outdoor unit will automatically integrate into your mesh network, providing seamless WiFi coverage. You can manage your network using the TP-Link Deco app.

### 6.1 Deco App Features

The Deco app allows you to:

- View connected devices and their status.
- Set up a guest network.
- Manage parental controls.
- Prioritize devices for optimal performance (QoS).
- Access HomeShield Security features.
- Update firmware.
- Monitor network health and usage.

### 6.2 LED Indicator Status

The LED on your Deco unit indicates its status:

- **Solid Green:** Deco is working properly.
- **Pulsing Green:** Deco is starting up.
- **Solid Red:** Deco has an issue (e.g., no internet connection).
- **Pulsing Red:** Deco is disconnected from the main Deco unit.
- **Solid Blue:** Deco is ready for setup.
- **Pulsing Blue:** Deco is pairing via Bluetooth.

## 7. MAINTENANCE

---

Regular maintenance ensures the longevity and optimal performance of your Deco X50-Outdoor unit.

### 7.1 Firmware Updates

Keep your Deco's firmware updated to benefit from the latest features, security enhancements, and bug fixes. You can check for and install updates via the Deco app.

### 7.2 Cleaning

Wipe the device with a soft, dry cloth. Do not use liquid cleaners or chemical sprays.

### 7.3 Environmental Considerations

Despite its outdoor rating, avoid placing the unit in locations where it is constantly submerged in water or exposed to extreme physical impact.

## 8. TROUBLESHOOTING

---

If you encounter issues with your Deco X50-Outdoor, try the following solutions:

### 8.1 No Internet Connection

- Check the LED status. If solid red, ensure your main Deco unit has an internet connection.
- Verify that the Ethernet cable (if used) is securely connected.
- Restart your modem, main Deco unit, and then the X50-Outdoor unit.

## 8.2 Deco X50-Outdoor Disconnected

- Ensure the unit is within range of your main Deco or another satellite Deco.
- Check the power connection.
- Try relocating the unit to a closer position to the main Deco.

## 8.3 Slow WiFi Speed

- Ensure the unit is placed in an open area, free from obstructions.
- Check for firmware updates.
- Use the Deco app to run a network optimization test.

## 8.4 Factory Reset

If issues persist, you may need to perform a factory reset. With the Deco unit powered on, use a pin to press and hold the Reset button until the LED turns solid red (approximately 1 second), then release. The unit will restart with factory default settings.

## 9. SPECIFICATIONS

---

Technical details for the TP-Link Deco X50-Outdoor unit:

# Dual-Band WiFi 6 AX3000



**IP65**

Waterproof &  
Dustproof



**160  
MHz**

**HE 160**

160 MHz

Supports

**PoE/AC**  
Power Supply



HomeShield  
Security



Connect over  
**150 Devices** †



AI-Driven  
Mesh



Covers up to  
**2500 ft<sup>2</sup>**

Image: An infographic highlighting key features of the Deco X50-Outdoor, including Dual-Band WiFi 6, AX3000 speeds, IP65 rating, PoE/AC power support, HomeShield Security, support for over 150 devices, AI-Driven Mesh, and up to 2500 sq ft coverage.

Feature	Detail
Model Name	AX3000 Outdoor Whole Home Mesh WiFi 6 Unit
Wireless Standard	Wi-Fi 6 (802.11ax)
Frequency Band Class	Dual-Band
Data Transfer Rate	Up to 2402 Mbps (5 GHz) + 574 Mbps (2.4 GHz)
Connectivity Range	Up to 2000 Square Feet (per unit)
Ports	2 x Gigabit Ethernet Ports (Auto-sensing WAN/LAN)
Power Supply	PoE (802.3at) or AC Power Adapter (240V AC)
Weather Resistance	IP65 (Waterproof & Dustproof)

Feature	Detail
Security Protocol	WPA, WPA2, WPA3
Control Method	TP-Link Deco App
Item Weight	0.9 Kilograms

## 10. WARRANTY AND SUPPORT

---

For warranty information and technical support, please refer to the official TP-Link website or contact their customer service.

- **TP-Link Official Website:** [www.tp-link.com](http://www.tp-link.com)
- **Technical Support:** Visit the support section on the TP-Link website for FAQs, troubleshooting guides, and contact information.