

BEACON 2

USER MANUAL

222nm Far-UVC Continuous Disinfection System

Revision: April 2026

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1. How Beacon Works

Overview

Beacon is a continuous 222nm Far-UVC disinfection system that seamlessly adapts to homes, healthcare facilities, and workplaces.

Its smart mobile app enables real-time monitoring, optimized energy-efficient disinfection schedules, and effortless device management — delivering round-the-clock air and surface protection.

By inactivating up to 99.99% of viruses, bacteria, and mold, Beacon safeguards the spaces that matter most. Combining patented 222nm Far-UVC technology with intuitive controls, it provides a powerful, automated layer of protection designed for maximum safety, efficiency, and peace of mind.

Key Features

- Up to 10,000 hours of lamp life
- Simple plug-in installation — no hardwiring or licensed electrician required
- Wi-Fi-enabled mobile app for real-time monitoring, scheduling, and remote control
- Inactivates up to 99.99% of viruses, bacteria, and mold
- Safe for use in occupied spaces
- Chemical-free disinfection
- Intelligent operating modes with real-time occupancy sensing
- Supports ASHRAE 241 compliance

Certifications & Compliance

- UL 867 — Ozone Certification
- UL 153 — Safety
- FCC Class A/B/C
- Compliant with ANSI RP-27.1 (as referenced in ACGIH guidelines)
- EPA Establishment No. 105810

Technical Specifications

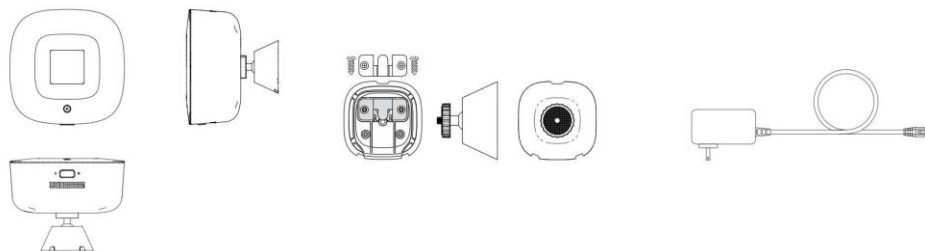
| Specification | Value |
|-----------------------|------------------------------|
| Lamp Lifespan | Up to 10,000 hours |
| Coverage Area | Up to 500 sq. ft. per device |
| Power (startup) | 14 Watts |
| Power (steady state) | 11 Watts |
| Power Supply | Standard 120V AC outlet |
| Operating Temperature | 32°F – 113°F (0°C – 45°C) |
| Optimal Environment | 60°F – 80°F, low humidity |
| Wi-Fi Compatibility | 2.4 GHz or 5 GHz |

2. Setting Up Your Beacon

Package Contents

Your Beacon includes the following components:

- Beacon 222nm Far-UVC disinfecting light
- Wall mount with two (2) mounting screws and two (2) drywall anchors
- One (1) mounting plate
- Power cord (extends up to 10 feet)



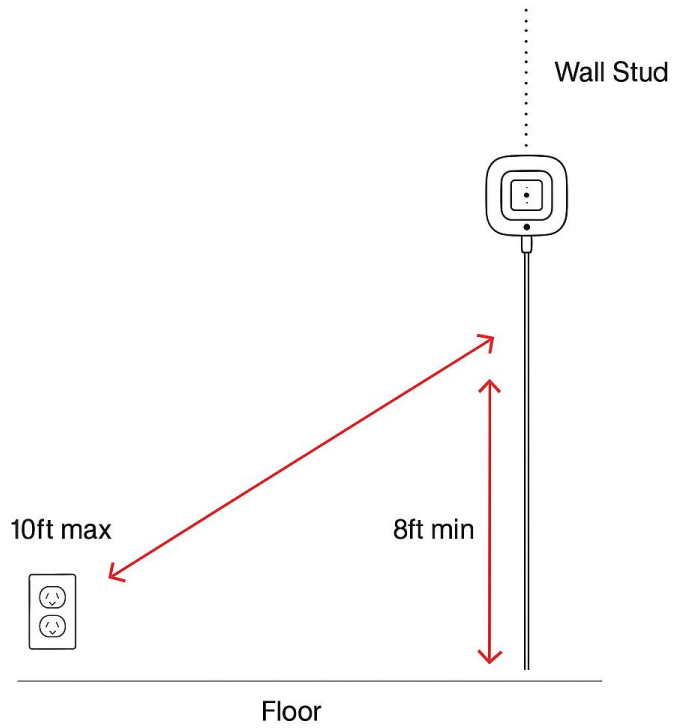
Tools Required

- Screwdriver or power drill
- Step stool or ladder

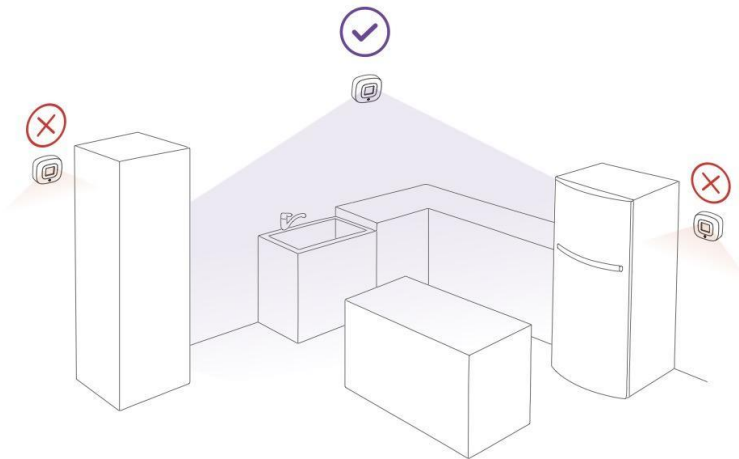
Selecting a Mounting Location

Choose a location that meets all of the following criteria:

- Eight feet (8') above the finished floor
- Within ten feet (10') of a standard 120V outlet
- At least four inches (4") below the ceiling
- Centered on a wall stud, or in drywall using the provided anchors

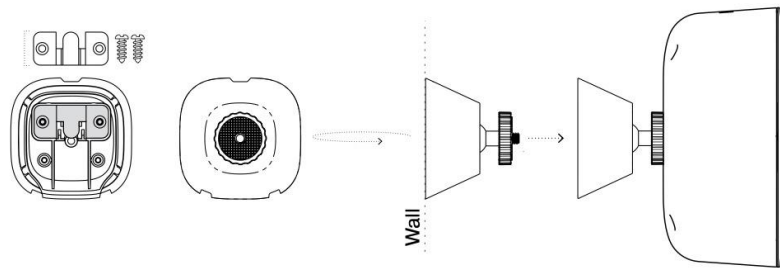


For maximum coverage, mount Beacon in an unobstructed location facing out into the room — an open corner is ideal.



Mounting Instructions

1. Choose your height and location. Fasten mount (A) to the wall with the tab facing up, using the two supplied screws.
2. Attach the Beacon disinfecting light to the mounting hardware by threading it onto the mount (B).
3. Connect the power jack to the Beacon. Route the power cord upward through the mount (for outlets above) or downward (for outlets below) as appropriate.
4. Lower the Beacon so that its upper plate hooks onto the wall mount plate.
5. Adjust the angle as needed for optimal room coverage.
6. Plug the power cord into the wall outlet.



Powering On Your Beacon

Once your device is mounted and plugged into a standard 120V outlet:

7. Press the “Beacon” button on the bottom of the device to power it on.
8. Open the Beacon companion app and follow the on-screen prompts to complete device setup.

Important Note

Ensure your phone’s Bluetooth is enabled before connecting your device to the app.

Setting Up the Beacon App

Download the Beacon companion app by searching your app store for “Beacon Disinfection”:

- iOS: Available on the Apple App Store
- Android: Available on the Google Play Store

After installing the app:

9. Open the app and tap “Sign Up” to create a new account.
10. Enter your name and email address, then tap “Register.”

11. Check your email for a verification code and enter it in the app to confirm your account.
12. Once logged in, follow the on-screen prompts to add your Beacon device and configure your disinfection schedule.

For complete app instructions, refer to Section 8 — Mobile App Guide.

3. Operating Modes

Beacon offers three operating modes to accommodate a variety of environments and user preferences:

Smart Mode (Recommended)

Automatically adjusts disinfection output based on real-time occupancy data, maintaining exposure within ACGIH Threshold Limit Value (TLV) guidelines at all times. Beacon recommends this mode for all standard installations.

Manual Mode

Operates the device on demand. Use the app's power toggle or the physical button on the device to start and stop disinfection cycles as needed.

LED Indicator Reference

| LED State | Meaning |
|----------------------|---|
| Blinking Blue | Normal startup behavior. The device is connecting to the cloud. Stops after 5–10 blinks, returning to solid blue. |
| Solid Blue | Connected to Wi-Fi. Remains on as long as the device is powered. |
| Solid White | The Far-UVC lamp is active and disinfecting. |
| No Color | Device is not connected to power. |
| Blinking Red | Wi-Fi has been reset. Reconnect via the app. |
| Solid Red | Error state. Power off for 5–10 minutes and restart. Contact support if the issue persists. |

What should I do if the error light persists?

Power the device off and allow it to cool for 5–10 minutes, then restart. The most common cause of an error state is an obstruction within one foot of the device. Gently wipe the sensor lens with a soft, dry cloth to clear any blockage. If the error persists, contact Beacon Support at info@meetbeacon.com.

4. Safety & Regulatory Information

FCC Compliance

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Important Safety Instructions

OCCUPIED SPACES DIRECT IRRADIATION UV EQUIPMENT

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!

When using electrical equipment, basic safety precautions should always be followed including the following:

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service of this equipment should be performed by a qualified licensed electrician.
- This equipment is designed for use with germicidal UV radiation sources and must be installed in compliance with competent technical directions to prevent risk of personal injury from UV radiation.
- UV radiation can pose a risk of personal injury. Overexposure can result in damage to eyes and bare skin. To reduce the risk of overexposure this equipment must be installed in accordance with the manufacturer's site planning recommendations. This may include instructions on the relative location of each germicidal system component, the minimum distances between UV-generating devices and

other objects or surfaces, and protection from line-of-sight exposure to UV radiation in occupied spaces located above the equipment mounting area (e.g. upper floor balconies, open staircases, etc.)

- UV and optical radiation can be reflected by surrounding surfaces such as ceilings and walls. Since the reflective properties of surfaces can vary widely, it should be considered as part of site planning. Follow the manufacturer's recommendations for selecting appropriate ceiling and wall finishes.
- IT IS THE RESPONSIBILITY OF THE INSTALLER TO ENSURE THAT PERSONS WILL NOT BE EXPOSED TO EXCESSIVE UV OR OPTICAL RADIATION DURING EQUIPMENT OPERATION. THIS WILL REQUIRE THE INSTALLER TO CONDUCT AN ASSESSMENT OF IRRADIANCE OR ILLUMINANCE LEVELS IN THE SURROUNDING OCCUPIED SPACES PRIOR TO OCCUPANCY.
- Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering.
- Maintenance and servicing of this UV generating equipment shall be performed by authorized personnel. Service personnel must wear appropriate Personal Protective Equipment (PPE) if the equipment will be in operation during the maintenance or servicing work. Contact the equipment manufacturer for PPE recommendations and guidance.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Do not use this equipment for other than intended use.
- **Beacon is not intended for use with wall switches. Connect to an unswitched circuit intended for 24/7/365 continuous operation.**
- All references to "disinfection" are referring generally to the reduction of pathogenic bioburden and are not intended to refer to any specific definition of the term as may be used for other purposes by the U.S. Food and Drug Administration or the U.S. Environmental Protection Agency. The disinfection technology as incorporated in Beacon products is not for use as a medical device or for the disinfection of medical devices.
- It is the obligation of the end-user to consult with appropriately qualified Professional Engineer(s), a Certified Infection Control professional, and a Certified Industrial Hygienist, as applicable, to determine whether this equipment and its installation meets the applicable requirements for system performance, code compliance, safety, suitability and effectiveness for use in a particular application design. In no event will Beacon be responsible for any loss resulting from any use of this equipment in an application design.
- **DO NOT INSTALL DAMAGED PRODUCT!** This equipment has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after installation should be replaced. Contact the manufacturer for replacement.
- Follow all disposal laws when replacing or disposing. Excimer lamps do not contain hazardous materials and can be recycled by standard electronics recyclers.
- Do not install below the minimum height specified in these installation instructions.
- This equipment, including the lamp modules, must be stored in a dust-free environment, and be handled while wearing clean gloves. Since Far UVC radiation is absorbed by proteins and other organic compounds, accumulation of dust particles or touching of the optical radiation surface will negatively impact the output of the UV radiation source and its germicidal power.
- Replacement lamp modules must be purchased through Beacon. Contact Beacon when module reaches end of life.

- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired, or should problems arise which are not covered sufficiently for the purchaser's or owner's purposes, please contact Beacon at support@meetbeacon.com.

IMPORTANT SAFETY INSTRUCTIONS

OCCUPIED SPACES DIRECT IRRADIATION UV EQUIPMENT

Beacon – Wall Mount

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS



WARNING RISK OF ELECTRIC SHOCK

- Disconnect or turn off power before installation or servicing.
- Verify that supply voltage is correct by comparing it with the equipment label information.
- Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- All wiring connections should be capped with UL approved recognized wire connectors.

CAUTION WARNING RISK OF BURN

- Allow lamp/fixture to cool before handling. Do not touch hot lens, lamp, guard, or enclosure.
- Follow all lamp manufacturer's warnings, recommendations and restrictions on lamp operation including but not limited to: ballast type, burning position, replacement, and recycling.



CAUTION RISK OF INJURY

- Wear gloves and safety glasses at all times when removing equipment from carton, installing, servicing or performing maintenance.
- Avoid direct eye exposure to the light source while it is on.

CAUTION RISK OF FIRE

- Keep combustible and other materials that can burn away from lamp/lens.
- Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.



UV EXPOSURE RISKS

- Disconnect or turn off power to equipment before performing maintenance on it or other elements in the ceiling or space that require closer proximity than normal standing height away from the equipment.
- Skin or eye injury may result from overexposure to the light produced by the lamp in this equipment at distances less than 24 in. from the emitter.
- Emitters used in this product are classified as **RISK GROUP EXEMPT** for actinic UV (200-400nm), near UV (315-400nm), and blue light (300-700nm) hazards as defined in IEC 62471 when installed and used according to instructions in this document.
- This equipment emits UV radiation which can cause degradation of many materials. Remove or protect these materials prior to operation of the unit.

Failure to follow any of these instructions could void product warranties available at www.beaconlight.co/warranty. For technical assistance, email info@beaconlight.co.

EPA Establishment Number: 96734-IL-1. Not registered as a pesticide device and not intended for sale outside of the United States of America.
Beacon assumes no responsibility for claims arising out of improper or careless installation or handling of its products.

Additional Disclaimers

Your Beacon was designed and tested for quality assurance and in accordance with our specifications.

- 222-nm wavelength filtered Far-UVC is emitted from this product.
- It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
- Please use Beacon in appropriate temperature and dry settings.
 - For best performance, use between 60– 80°F in non-humid conditions.
 - Beacon is intended to operate between 32°F and 113°F. Do not operate the device outside this range.
- Beacon strongly recommends using its Smart mode that incorporates ACGIH Threshold Limit Values for Far-UVC. It is at the discretion of the user to opt not to use the recommended guidelines.
 - For germicidal applications, refer to ANSI/IES RP-44-21 for additional safety information that should be provided to the user upon request.
- In the event the user opts not to utilize Smart mode, any and all risks associated with the operation of the product, without exception and including risk created for 3rd parties for people or property, will be assumed by the user.
- In the event of product tampering or disassembly of any part of the device, your warranty will be voided. Beacon is not liable for any issues this may cause.
- Beacon uses sensors to prohibit operation within one foot of the device. This sensor, irrespective of what mode you select, will operate continuously. Please do not use abrasives or scratch the lens. In the event of a lens blockage, gently wipe the lens with a dry cloth to remove any debris. Beacon is not responsible for any damage to the lens. If this occurs, please contact the support team to troubleshoot.
- Do NOT touch the bulb directly, or indirectly.
- Do NOT use an extension cord.
- Beacon must be utilized with a standard 120V outlet and the provided adapter. Using Beacon with any other power voltage or adapter is done so entirely at the risk to the customer, and Beacon will not be liable for any damages of any kind.
- Please make sure to follow all hazard markings, where they exist. Hazards inherent in the final product, and warnings against foreseeable misuse and abuse, have been made known to the ultimate user via: warning labels identified in this manual; attachments to the physical device; and written instructions.
- In the event of an issue or warranty claim, you must return the Beacon product in its entirety for review, determination, and if necessary, disposal and/or replacement.
- Note: Beacon is not intended to diagnose, treat, or prevent any disease. It is not intended to entirely limit the risk of any disease, including pathogens like fungi, bacteria, or virus, but will aid in the reduction therein. Beacon is explicitly not responsible for any illness or disease of any kind, in any scenario, regardless of circumstance upon usage.

- Note: Beacon is not intended to treat, disinfect, or mitigate particulates (VOCs, etc.) and makes no representations, warranties, or claims otherwise.
- Note: Beacon is not responsible for any damage to your property, including but not limited to plants, pets, surfaces, materials, etc.

Storage and Disposal

When your device reaches end of life, please dispose of it in appropriate electronic recycling receptacles available in your area. Please reach out to info@meetbeacon.com if you require additional assistance or instructions on disposal.

5. Contact & Support

Beacon's support team is available to assist with installation, app configuration, device troubleshooting, and warranty inquiries.

| Primary Support Contact |
|---|
| Email: help@meetbeacon.com |
| Website: www.meetbeacon.com |

You can also follow Beacon on Instagram, X (Twitter), TikTok, and LinkedIn for updates, tips, and the latest news.

What to Include in a Support Request

To help us resolve your inquiry as quickly as possible, please include:

- Device serial number
- App version
- Phone model and operating system version
- Brief description of the issue
- Steps to reproduce (if applicable)
- Screenshots or video (if available)

Common Support Topics

1. Device Connectivity

- Wi-Fi connectivity problems
- Bluetooth pairing issues
- Device not appearing in app
- Connection timeouts

2. Account Management

- Account creation and login issues
- Password reset
- Profile updates
- Device registration

3. App Functionality

- Schedule creation and editing
- Device mode configuration
- Software updates

4. Hardware & Physical Maintenance

- Device setup and mounting questions
- LED indicator interpretation
- Power and operational issues
- Cleaning and physical maintenance

6. Mobile App Guide

System Requirements

Hardware Requirements

- Beacon 222nm Far-UVC device with mount and mounting hardware
- Standard 120V AC outlet
- Wi-Fi network (2.4 GHz or 5 GHz)
- Compatible smartphone or tablet

iOS Requirements

- iOS 16 or higher
- Bluetooth 4.2 or Bluetooth Low Energy (BLE)
- Location services enabled (required for Wi-Fi verification and Bluetooth pairing)
- Wi-Fi access
- Storage access for app configuration and device data

Android Requirements

- Android 13.0 (Tiramisu) or higher
- Bluetooth 4.2 or Bluetooth Low Energy (BLE)
- Location services enabled (required for Wi-Fi verification and device pairing)
- Wi-Fi access
- Storage access for app configuration and device data

Getting Started

1. Create an Account

13. Download the Beacon app from the Apple App Store or Google Play Store.
14. Open the app and tap “Sign Up.”
15. Enter your name and email address, then tap “Register.”
16. Check your email for a verification code and enter it in the app to activate your account.

2. Grant Required Permissions

During setup, the app will request the following permissions:

- Location Services — Required for Wi-Fi network verification.
- Bluetooth Access — Required for device pairing.

- Local Network Access — Allows the app to communicate with connected devices.
- Storage Access — Enables saving of device configuration and settings.

Note

Please grant all requested permissions to ensure full app functionality.

3. Add and Configure Your Device

17. From the Device dashboard, tap the “+” button in the upper right corner.
18. Follow the on-screen prompts to connect your Beacon device via Bluetooth.
19. Select or manually enter your Wi-Fi network name (SSID) and password.
20. Assign the device to a room. You can create a new room during this step if needed.
21. Configure your disinfection schedule and select an operating mode (Smart or Manual).
22. Review all settings and tap “Submit” to complete setup.

Device Management

Adding a Device

Tap the “+” icon on the Device dashboard. Ensure Bluetooth and location services are active on your phone. Follow the prompts to scan for the device, enter Wi-Fi credentials, and assign a room.

Updating Device Details

Navigate to Device Details to edit the device name, reassign it to a different room, or change the operating mode.

Wi-Fi Reset / Re-Provisioning

To move a device to a new network, use the Wi-Fi Reset feature in Device Details. This disconnects the device from its current network and prompts you to enter new credentials. No physical reset of the device is required.

You may also perform a hard Wi-Fi reset by holding down the Beacon button for 3–5 seconds until you see a flashing red LED. This indicates the Wi-Fi has been reset and you can reconnect via the app.

Removing a Device

To permanently remove a device, select “Delete Device” in Device Details. All historical data for that device will be erased. You will be prompted to confirm before deletion is finalized. The device can be re-added to any account at a later time.

Schedule Management

Creating a Schedule

23. Navigate to Device Details and select the Schedule tab.
24. Tap “+” to create a new schedule.
25. Select the days of the week and specify start and end times for each disinfection cycle.
26. Tap “Save” to activate the schedule.

Editing or Deleting a Schedule

Tap an existing schedule to modify start/end times, days of the week, or the operating mode. To delete, tap the trash icon and confirm removal.

Enabling or Disabling a Schedule

Use the toggle on the Schedule page to pause or re-enable any schedule without deleting it.

Profile & Account Settings

Editing Your Profile

Tap the dropdown menu in the upper right corner and select “Profile.” Tap “Edit” to update your name or email address. Tap “Save” to confirm, or “Cancel” to discard changes.

Deactivating Your Account

In Profile Settings, tap “Deactivate Account.” You will be prompted to confirm by entering a specific keyword. This action is permanent and cannot be undone — all devices and data will be permanently removed.

App Settings

Checking for Updates

Access Settings via the dropdown menu in the upper right corner. The current app version is displayed along with a “Check for Updates” option.

Changing the Time Zone

Navigate to Settings and select your preferred time zone from the dropdown. Note: at least one Beacon device must be registered to your account before the time zone setting can be saved.

Viewing Usage Data

In Settings, view daily average and total usage across all Beacon devices. This data is useful for monitoring 222nm Far-UVC uptime and optimizing disinfection schedules.

App Troubleshooting FAQs

My Beacon won't connect to the app. What should I do?

1. Confirm your phone's Wi-Fi and Bluetooth are both enabled.
2. Verify the Beacon device is powered on.
3. Confirm you are connecting to a 2.4 GHz or 5 GHz network.
4. Move closer to the device and try again.
5. Restart both your phone and the Beacon device.
6. Try the Wi-Fi Reset feature in Device Details.
7. If the issue persists, contact support at help@meetbeacon.com.

The device already exists in another account. What should I do?

The previous account owner must remove the device from their account before it can be added to a new one. They can do this by navigating to Device Settings and selecting "Remove Device."
If you are unable to contact the previous owner, contact Beacon Support with the device's serial number for assistance.

I forgot my password. How do I reset it?

1. On the login screen, tap "Forgot Password."
 2. Enter your registered email address.
 3. Copy and paste the verification code sent to your email into the app.
 4. Create and confirm a new password.
- If you do not receive the email, check your spam folder or contact support.

How do I control my Beacon remotely?

From the Device page, use the power toggle to turn a device on or off at any time. You can also switch operating modes and modify schedules from anywhere with an internet connection.

What information should I provide when contacting support?

To help us assist you faster, please provide:

- Device serial number
- App version
- Phone model and OS version
- Detailed description of the issue
- Any error messages
- Screenshots or video (if available)