



### QUICK START GUIDE

### Introduction

Thank you for purchasing the Ubiquiti Networks® PowerBeam® ac. This Quick Start Guide is designed to guide you through installation and also includes warranty terms.

If you want to add a radome to enclose the Dish Reflector, Ubiquiti Networks offers the PowerBeam Radome, 400 mm, model PBE-RAD-400 as an optional accessory. Product details are available on our website at [www.ubnt.com/airmax](http://www.ubnt.com/airmax)

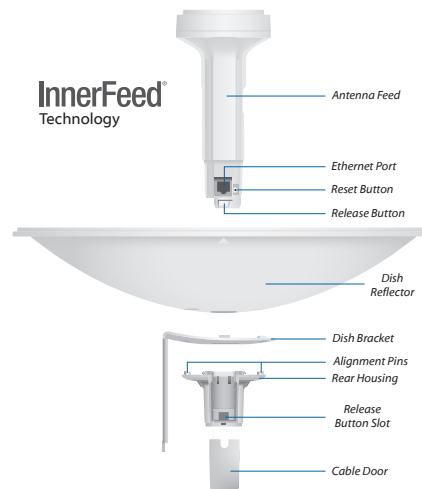
### Package Contents



TERMS OF USE: Ubiquiti radio devices must be professionally installed. Shielded Ethernet cable and earth grounding must be used as conditions of product warranty. TOUGHcable™ is designed for outdoor installations. It is the customer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements.

### Hardware Overview

#### Bottom View



**Reset Button** To reset to factory defaults, press and hold the Reset button for more than 10 seconds while the PowerBeam is already powered on. Alternatively, the PowerBeam may be reset remotely via a Reset button located on the bottom of the Gigabit PoE Adapter.

**Release Button** After you assemble the PowerBeam, check the Release button; it should be fully engaged in the Release Button Slot of the Rear Housing. This ensures that the Antenna Feed is locked into place. If you need to remove the Antenna Feed, you must depress the Release button first.

### LEDs



**Signal** In airOS, you can modify the wireless signal strength threshold values for each LED on the Wireless tab under Signal LED Thresholds. The default values are shown below:

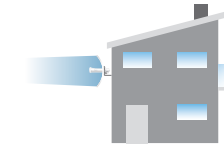
- LED will light blue when the wireless signal strength is above -65 dBm.
- LED will light blue when the wireless signal strength is above -73 dBm.
- LED will light blue when the wireless signal strength is above -80 dBm.
- LED will light blue when the wireless signal strength is above -94 dBm.

**Ethernet** The Ethernet LED will light steady blue when an active Ethernet connection is made and flash when there is activity.

**Power** The Power LED will light blue when the device is connected to a power source.

### Application Examples

The PowerBeam mounted outdoors with the Dish Reflector installed provides directional outdoor coverage (gain is reflector-dependent).

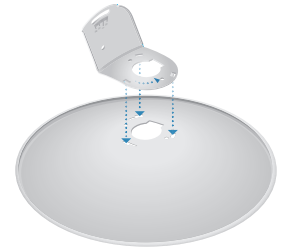


The PowerBeam mounted outdoors without the Dish Reflector installed provides outdoor-to-indoor coverage using the 3 dBi Antenna Feed only.

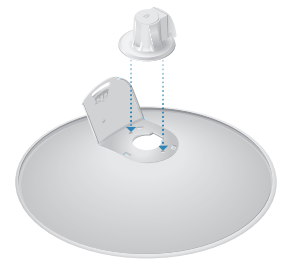


### Installation

1. Align and insert the tabs of the Dish Bracket into the slots of the Dish Reflector. Rotate the Dish Bracket counter-clockwise until the tabs lock into place.



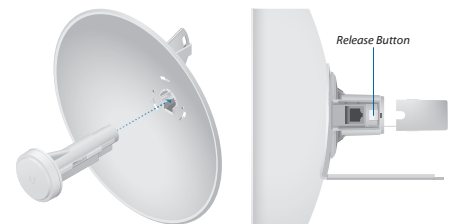
2. Line up the Alignment Pins of the Rear Housing with the alignment holes of the Dish Bracket. Insert the pins and push until they lock into place.



3. Push in the sides of the Cable Door and detach it from the Rear Housing.

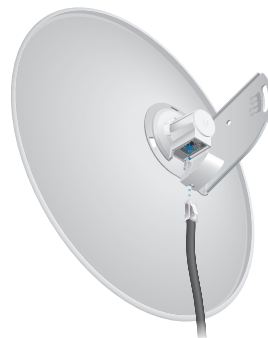


4. Attach the Antenna Feed:  
a. Insert the Antenna Feed into the Rear Housing, and push until it locks into place with a click.  
b. Lightly pull the Antenna Feed to ensure that it is locked into place and the Release button is fully engaged.



Bottom View

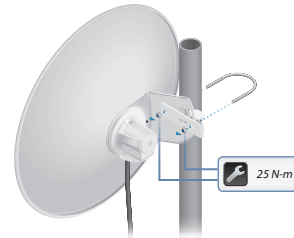
5. Connect the Ethernet cable:  
a. Connect an Ethernet cable to the Ethernet Port of the Antenna Feed.  
b. Re-attach the Cable Door to the Rear Housing.



6. Slide the Pole Clamp onto the Dish Bracket.

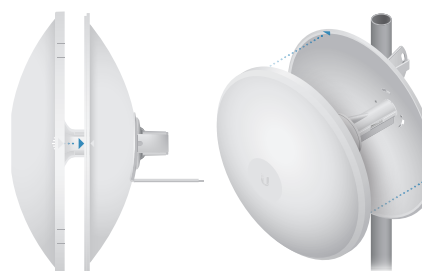


7. Insert the U-Bolt into the Pole Clamp and Dish Bracket. Secure each end of the U-Bolt with a Flange Nut.



**Note:** The mounting assembly can accommodate a Ø 32 - 56 mm pole.

8. Optional: If you have the PowerBeam Radome (optional accessory), then align the arrows on the bottoms of the Radome and Dish Reflector so the Drain Holes on the Radome point downward. Snap the Radome onto the Dish Reflector.

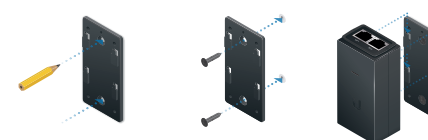


9. Connect the Ethernet cable from the PowerBeam's Ethernet port to the POE port of the Gigabit PoE adapter.  
10. Connect an Ethernet cable from your LAN to the adapter's LAN port.  
11. Connect the Power Cord to the adapter's power port. Connect the other end of the Power Cord to a power outlet.



#### Mounting the PoE Adapter (Optional)

1. Remove the PoE Mounting Bracket from the adapter, place the bracket at the desired location, and mark the two holes.  
2. Pre-drill the holes if necessary, and secure the bracket using two fasteners (not included).  
3. Align the adapter's slots with the tabs of the PoE Mounting Bracket, and then slide the adapter down.



### Installation Requirements

- 13 mm wrench
- Shielded Category 5 (or above) cabling should be used for all wired Ethernet connections and should be grounded through the AC ground of the PoE.

We recommend that you protect your networks from the most brutal environments and devastating ESD attacks with industrial-grade shielded Ethernet cable from Ubiquiti Networks. For more details, visit [www.ubnt.com/toughcable](http://www.ubnt.com/toughcable)

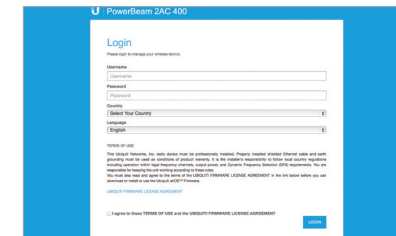
### Accessing airOS

Verify connectivity in the airOS® Configuration Interface.

- Make sure that your host system is connected via Ethernet to the PowerBeam.
- Configure the Ethernet adapter on your host system with a static IP address on the 192.168.1.x subnet.
- Launch your web browser and type <https://192.168.1.20> in the address field. Press **enter** (PC) or **return** (Mac).



- The login screen will appear. Enter **ubnt** in the Username and Password fields. Select your Country and Language. You must agree to the Terms of Use to use the product. Click **Login**.

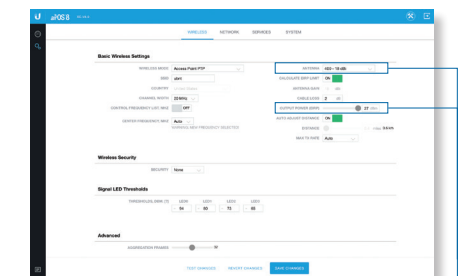


**Note:** For the Country setting, U.S. product versions are restricted to a choice of Canada, Puerto Rico, or the U.S. to ensure compliance with FCC/IC regulations.

The airOS Configuration Interface will appear, allowing you to customize your settings as needed. For additional details on the airOS Configuration Interface, refer to the User Guide available at [documentation.ubnt.com/airmax](http://documentation.ubnt.com/airmax)

### Installer Compliance Responsibility

Devices must be professionally installed and it is the professional installer's responsibility to make sure the device is operated within local country regulatory requirements.



Since Ubiquiti Networks equipment can be paired with a variety of antennas and cables, the Antenna and Output Power fields are provided to the professional installer to assist in meeting regulatory requirements.

## Specifications

Dimensions	420 x 420 x 289 mm (16.54 x 16.54 x 11.38")
Weight (Mount Included)	1.795 kg (4.809 lb)
Operating Frequency	Worldwide 2412 - 2472 MHz USA 2412 - 2462 MHz
Gain	18 dBi
Networking Interface	(1) 10/100/1000 Ethernet Port
Enclosure	Outdoor UV Stabilized Plastic
Max. Power Consumption	7W
Power Supply	24V, 0.5A Gigabit PoE Adapter (Included)
Power Method	Passive PoE (Pairs 4, 5+; 7, 8 Return)
Wind Survivability	200 km/h (125 mph)
Wind Loading	342.5 N @ 200 km/h (77 lbf @ 125 mph)
Certifications	CE, FCC, IC
Mounting	Pole Mounting Kit Included
Operating Temperature	-40 to 70° C (-40 to 158° F)
Operating Humidity	5 to 95% Noncondensing
Shock and Vibrations	ETSI300-019-1.4

## Safety Notices

- Read, follow, and keep these instructions.
- Heed all warnings.
- Only use attachments/accessories specified by the manufacturer.

**⚠ WARNING:** Do not use this product in location that can be submerged by water.

**⚠ WARNING:** Avoid using this product during an electrical storm. There may be a remote risk of electric shock from lightning.

## Electrical Safety Information

- Compliance is required with respect to voltage, frequency, and current requirements indicated on the manufacturer's label. Connection to a different power source than those specified may result in improper operation, damage to the equipment or pose a fire hazard if the limitations are not followed.
- There are no operator serviceable parts inside this equipment. Service should be provided only by a qualified service technician.
- This equipment is provided with a detachable power cord which has an integral safety ground wire intended for connection to a grounded safety outlet.
  - Do not substitute the power cord with one that is not the provided approved type. Never use an adapter plug to connect to a 2-wire outlet as this will defeat the continuity of the grounding wire.
  - The equipment requires the use of the ground wire as a part of the safety certification, modification or misuse can provide a shock hazard that can result in serious injury or death.
  - Contact a qualified electrician or the manufacturer if there are questions about the installation prior to connecting the equipment.
  - Protective earthing is provided by Listed AC adapter. Building installation shall provide appropriate short-circuit backup protection.
  - Protective bonding must be installed in accordance with local national wiring rules and regulations.

## Limited Warranty

UBIQUITI NETWORKS, Inc ("UBIQUITI NETWORKS") warrants that the product(s) furnished hereunder (the "Product(s)") shall be free from defects in material and workmanship for a period of one (1) year from the date of shipment by UBIQUITI NETWORKS under normal use and operation. UBIQUITI NETWORKS' sole and exclusive obligation and liability under the foregoing warranty shall be for UBIQUITI NETWORKS, at its discretion, to repair or replace any Product that fails to conform to the above warranty during the above warranty period. The expense of removal and reinstallation of any Product is not included in this warranty. The warranty period of any repaired or replaced Product shall not extend beyond its original term.

## Warranty Conditions

The above warranty does not apply if the Product:

- has been modified and/or altered, or an addition made thereto, except by Ubiquiti Networks, or Ubiquiti Networks' authorized representatives, or as approved by Ubiquiti Networks in writing;
- has been painted, rebranded or physically modified in any way;
- has been damaged due to errors or defects in cabling;
- has been subjected to misuse, abuse, negligence, abnormal physical, electromagnetic or electrical stress, including lightning strikes, or accident;
- has been damaged or impaired as a result of using third party firmware;
- has no original Ubiquiti MAC label, or is missing any other original Ubiquiti label(s); or
- has not been received by Ubiquiti within 30 days of issuance of the RMA.

In addition, the above warranty shall apply only if: the product has been properly installed and used at all times in accordance, and in all material respects, with the applicable Product documentation; all Ethernet cabling runs use CAT5 (or above), and for outdoor installations, shielded Ethernet cabling is used, and for indoor installations, indoor cabling requirements are followed.

## Returns

No Products will be accepted for replacement or repair without obtaining a Return Materials Authorization (RMA) number from UBIQUITI NETWORKS during the warranty period, and the Products being received at UBIQUITI NETWORKS' facility freight prepaid in accordance with the RMA process of UBIQUITI NETWORKS. Products returned without an RMA number will not be processed and will be returned freight collect or subject to disposal. Information on the RMA process and obtaining an RMA number can be found at: [www.ubnt.com/support/warranty](http://www.ubnt.com/support/warranty).

## RF Exposure Warning

The antennas used for this transmitter must be installed to provide a separation distance of at least 29 cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

Les antennes utilisées pour ce transmetteur doivent être installés en considérant une distance de séparation de toute personnes d'au moins 29 cm et ne doivent pas être localisé ou utilisé en conflit avec tout autre antenne ou transmetteur.

## CE Marking

CE marking on this product represents the product is in compliance with all directives that are applicable to it.



## RoHS/WEEE Compliance Statement



## English

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

## Deutsch

Die Europäische Richtlinie 2002/96/EC verlangt, dass technische Ausrüstung, die direkt am Gerät und/oder an der Verpackung mit diesem Symbol versehen ist, nicht zusammen mit unsortiertem Gemeindeabfall entsorgt werden darf. Das Symbol weist darauf hin, dass das Produkt vom regulärem Haushaltmüll getrennt entsorgt werden sollte. Es liegt in Ihrer Verantwortung, dieses Gerät und andere elektrische und elektronische Geräte über die dafür zuständigen und von der Regierung oder örtlichen Behörden dazu bestimmten Sammelstellen zu entsorgen. Ordnungsgemäßes Entsorgen und Recyceln trägt dazu bei, potentielle negative Folgen für Umwelt und die menschliche Gesundheit zu vermeiden. Wenn Sie weitere Informationen zur Entsorgung Ihrer Altgeräte benötigen, wenden Sie sich bitte an die örtlichen Behörden oder städtischen Entsorgungsdienste oder an den Händler, bei dem Sie das Produkt erworben haben.

## Español

La Directiva 2002/96/CE de la UE exige que los equipos que lleven este símbolo en el propio aparato y/o en su embalaje no deben eliminarse junto con otros residuos urbanos no seleccionados. El símbolo indica que el producto en cuestión debe separarse de los residuos domésticos convencionales con vistas a su eliminación. Es responsabilidad suya desecher este y cualesquiera otros aparatos eléctricos y electrónicos a través de los puntos de recogida que ponen a su disposición el gobierno y las autoridades locales. Al desecher y reciclar correctamente estos aparatos estará contribuyendo a evitar posibles consecuencias negativas para el medio ambiente y la salud de las personas. Si desea obtener información más detallada sobre la eliminación segura de su aparato usado, consulte a las autoridades locales, al servicio de recogida y eliminación de residuos de su zona o pregunte en la tienda donde adquirió el producto.

## Français

La directive européenne 2002/96/CE exige que l'équipement sur lequel est apposé ce symbole sur le produit et/ou son emballage ne soit pas jeté avec les autres ordures ménagères. Ce symbole indique que le produit doit être éliminé dans un circuit distinct de celui pour les déchets des ménages. Il est de votre responsabilité de jeter ce matériel ainsi que tout autre matériel électrique ou électronique par les moyens de collecte indiqués par le gouvernement et les pouvoirs publics des collectivités territoriales. L'élimination et le recyclage en bonne et due forme ont pour but de lutter contre l'impact néfaste potentiel de ce type de produits sur l'environnement et la santé publique. Pour plus d'informations sur le mode d'élimination de votre ancien équipement, veuillez prendre contact avec les pouvoirs publics locaux, le service de traitement des déchets, ou l'endroit où vous avez acheté le produit.

## Italiano

La direttiva europea 2002/96/EC richiede che le apparecchiature contrassegnate con questo simbolo sul prodotto e/o sull'imballaggio non siano smaltite insieme ai rifiuti urbani non differenziati. Il simbolo indica che questo prodotto non deve essere smaltito insieme ai normali rifiuti domestici. È responsabilità del proprietario smaltire sia questi prodotti sia le altre apparecchiature elettriche ed elettroniche mediante le specifiche strutture di raccolta indicate dal governo o dagli enti pubblici locali. Il corretto smaltimento ed il riciclaggio aiuteranno a prevenire conseguenze potenzialmente negative per l'ambiente e per la salute dell'essere umano. Per ricevere informazioni più dettagliate circa lo smaltimento delle vecchie apparecchiature in Vostro possesso, Vi invitiamo a contattare gli enti pubblici di competenza, il servizio di smaltimento rifiuti o il negozio nel quale avete acquistato il prodotto.

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## Limitation of Liability

EXCEPT TO THE EXTENT PROHIBITED BY LOCAL LAW, IN NO EVENT WILL UBIQUITI OR ITS SUBSIDIARIES, AFFILIATES OR SUPPLIERS BE LIABLE FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES (INCLUDING LOST PROFIT, LOST DATA, OR DOWNTIME COSTS), ARISING OUT OF THE USE, INABILITY TO USE, OR THE RESULTS OF USE OF THE PRODUCT, WHETHER BASED IN WARRANTY, CONTRACT, TORT OR OTHER LEGAL THEORY, AND WHETHER OR NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## Note

Some countries, states and provinces do not allow exclusions of implied warranties or conditions, so the above exclusion may not apply to you. You may have other rights that vary from country to country, state to state, or province to province. Some countries, states and provinces do not allow the exclusion or limitation of liability for incidental or consequential damages, so the above limitation may not apply to you. EXCEPT TO THE EXTENT ALLOWED BY LOCAL LAW, THESE WARRANTY TERMS DO NOT EXCLUDE, RESTRICT OR MODIFY, AND ARE IN ADDITION TO, THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE LICENSE OF ANY SOFTWARE (EMBEDDED IN THE PRODUCT) TO YOU. The United Nations Convention on Contracts for the International Sale of Goods shall not apply to any transactions regarding the sale of the Products.

## Compliance

### FCC

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operations of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This radio transmitter FCC ID: SWX-PBE2AC has been approved by FCC to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna Information: Dish antenna, Gain: 18 dBi

## Industry Canada

### CAN ICES-3(A)/NMB-3(A)

This Class A digital apparatus complies with Canadian CAN ICES-003.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

This radio transmitter (IC: 6545A-PBE2AC) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna Information: Dish antenna, Gain: 18 dBi

### CAN ICES-3(A)/NMB-3(A)

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Pour réduire le risque d'interférence aux autres utilisateurs, le type d'antenne et son gain doivent être choisis de façon que la puissance isotrope rayonnée équivalente (PIRE) ne dépasse pas ce qui est nécessaire pour une communication réussie.

Cet appareil est conforme à la norme RSS Industrie Canada exempts de licence norme(s). Son fonctionnement est soumis aux deux conditions suivantes:

- Cet appareil ne peut pas provoquer d'interférences et
- Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.

Cet émetteur radio (IC: 6545A-PBE2AC) a été approuvée par Industrie Canada pour l'exploitation avec l'antenne types énumérés ci-dessous avec le gain maximal admissible et requis l'impédance de l'antenne pour chaque type d'antenne indiquée. Types d'antenne non inclus dans cette liste, ayant un gain supérieur au gain maximal indiqué pour ce type, sont strictement interdits pour une utilisation avec cet appareil.

Informations d'antenne: Antenne parabolique, Gain: 18 dBi

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Support [support.ubnt.com](http://support.ubnt.com)

Community [community.ubnt.com](http://community.ubnt.com)

Downloads [downloads.ubnt.com](http://downloads.ubnt.com)

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