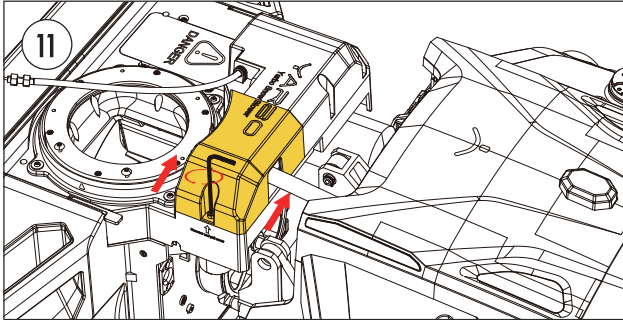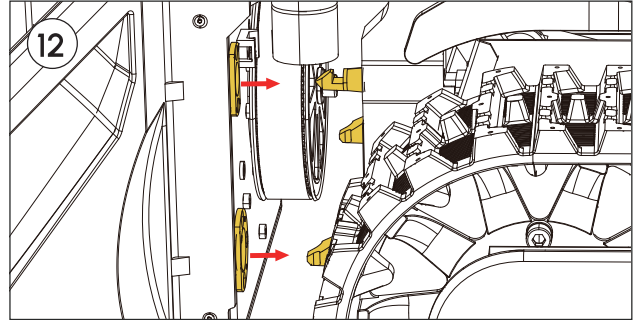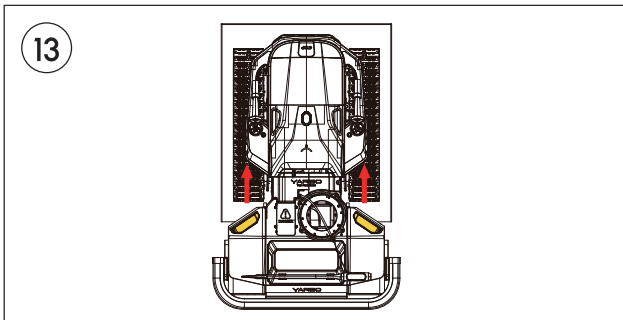## 2.Installation Guide
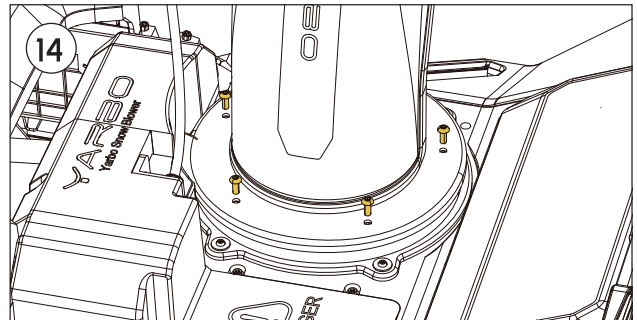

Place the protection cover back to its original position by putting it down on the track and sliding it to the end. Screw the connection scew to tighten the cover using Allen Key #2.
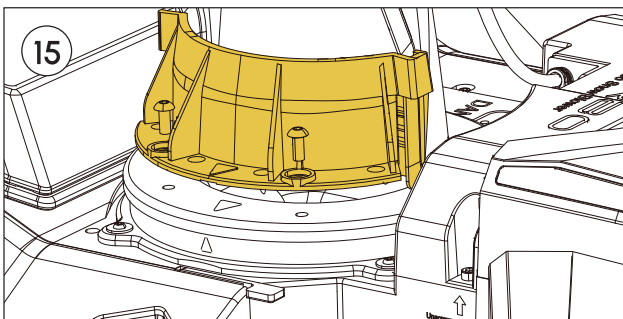

Locate the four shafts and holes. Do not push the two parts together right now.


Slightly raise the Snow Blower Module. Gently push together two parts until you hear a click.

Locate the four Snow Chute Connection Bolts and the Snow Chute in the package. **Tighten** the **4 smaller bolts** to fasten the Snow Chute using Allen Key #1.
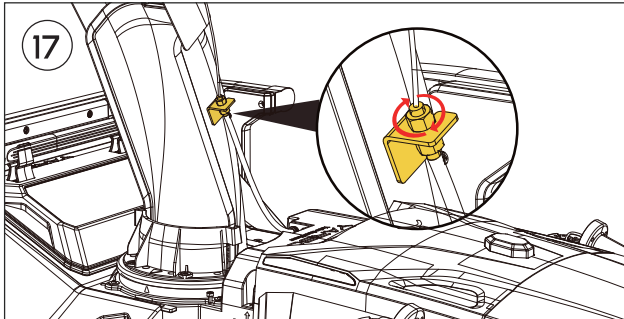

Locate the Snow Plume Diverter and the **two** Snow Plume Diverter Connection Bolts. **Tighten** the bolts to fasten the Snow Plume Diverter using Allen Key #2.
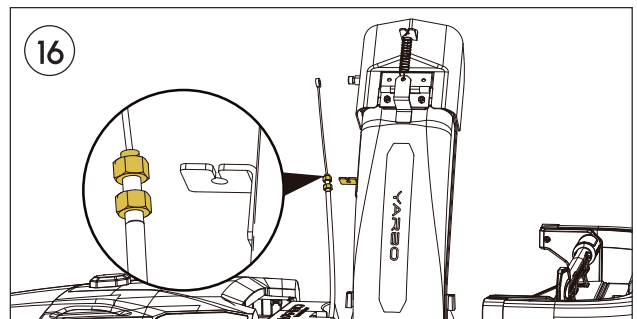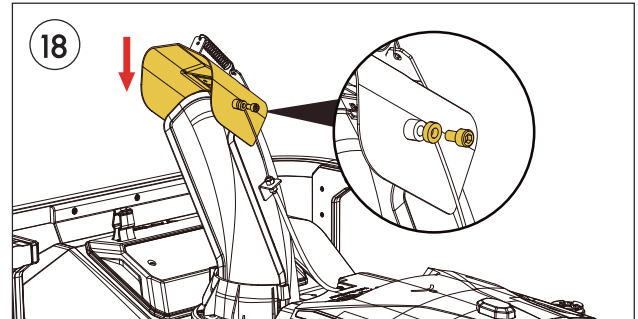

Locate the cable shown in the picture. Loosen the **top one** of the two nuts in the middle with Simple Wrentch.
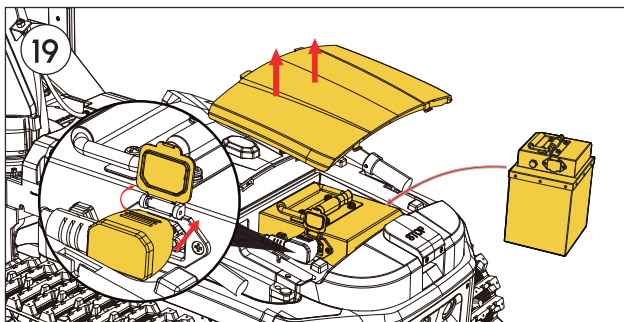
Place the cable in the open loop and screw the top nut with Simple Wrentch to tighten the cable.
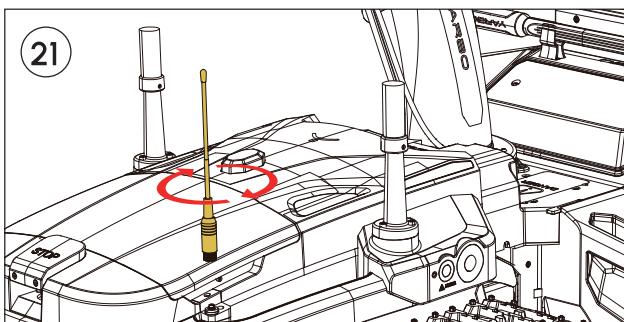

Unscrew the bolt shown in the picture. Press down the defelector on the chute. Insert the bolt through the ring at the end of the cable, and screw the bolt back in place using Allen Key #4.


Remove the cover by grasping both sides with your hands and place the battery inside. **Connect** the cable from the Yarbo Core to the battery.
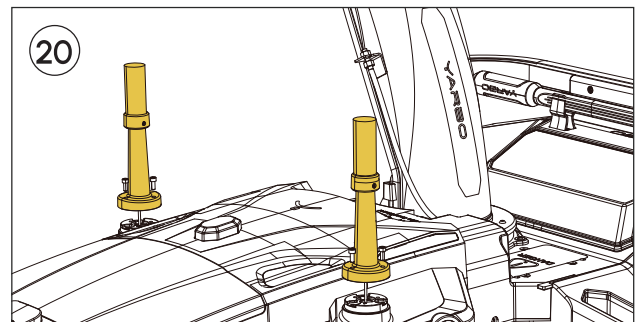
Straighten the RTK antennas and locate six Low RTK Antenna Mount Bolts provided in the package. **Screw** the six bolts using Allen Key #2.

Locate the HaLow Antenna for Rover provided in the package and install the antenna by screwing it into the place shown in the picture.
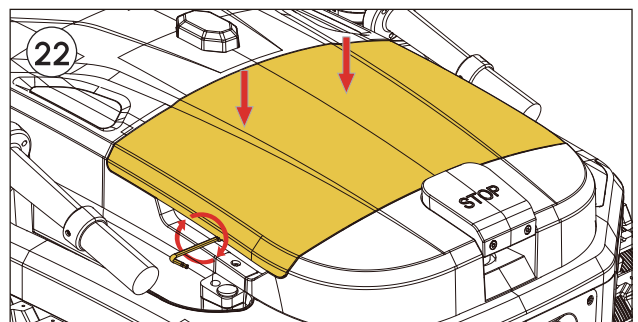
Place the battery cover back in place and screw the Anti-theft Bolts on both sides using **Battery Cover Wrench** provided in the package.

2.Installation Guide
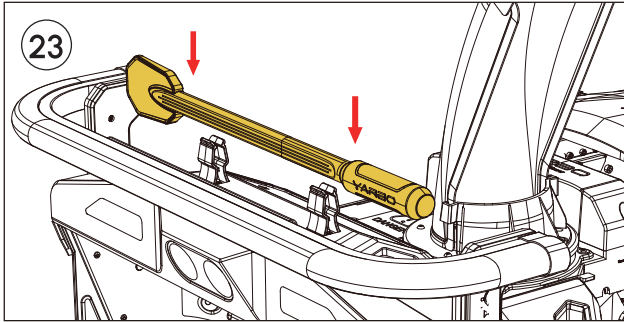
Place the snow shovel in front of the snow blower.

Lift the Emergency Stop Button.

Remove the rear cover. **Press** the power button to turn on Yarbo. Place back the rear cover.

2.2 Installing Yarbo App

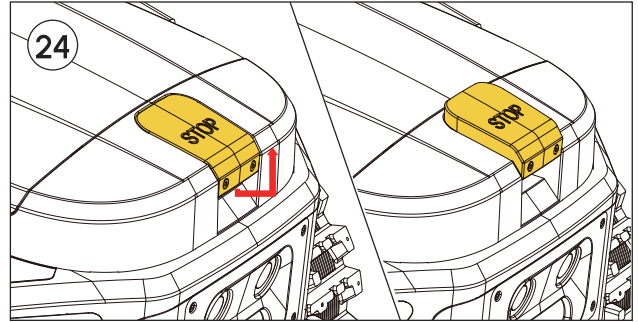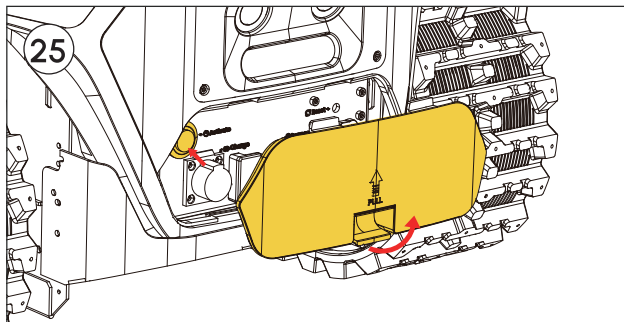The Yarbo App is a professional application that empowers you to manage and control your Yarbo anytime, anywhere, elevating your snow cleaning experience to new heights. With its impressive features, you can easily set up work schedules, define multiple working areas and no-go zones, and monitor Yarbo's operating status. Additionally, you can receive the latest firmware updates and access instruction manuals, video tutorials, FAQs, and more through the App.

Follow these simple steps to install and set up the Yarbo App:

① Download the Yarbo App by scanning the QR code below or searching on the app store.
② After installation, log in to your Yarbo account. If you don't have one, please register.
③ Follow the steps of the first-time user guide on the app. If there are few steps that are hard to understand, please refer to the app section of this user manual.

*Note: Once a device is associated with a Yarbo account, it cannot be linked to a new account. However, you can invite others to use your Yarbo through Yarbo Sharing in the app.
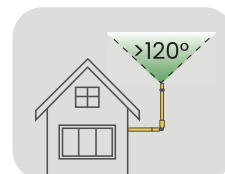
IOS

Android

2.3 Installing the Data Center

| Method 1 | Roof and Wall Installation(Recommanded) |

Make sure there's a clear view of the sky with at least 120 degree of unobstructed space. The reason we recommend this method is that the higher the Data Center is placed, the more stable RTK signal it will receive.

| Method 2 | Ground Installation |

Make sure there's a clear view of the sky with at least 120 degree of unobstructed space.
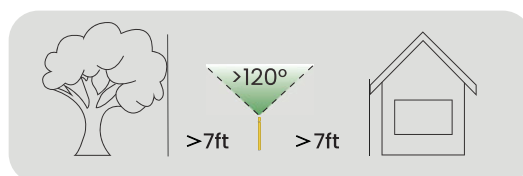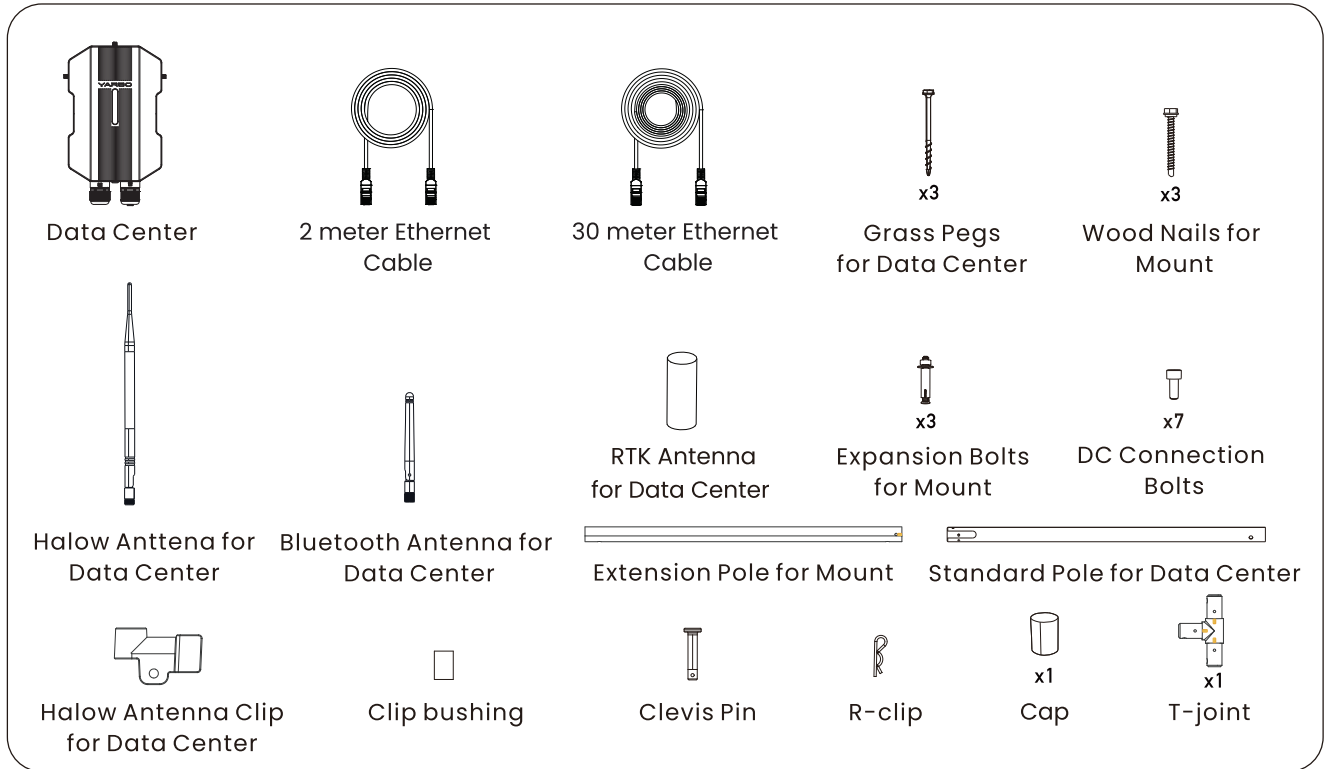

⚠ CAUTION

■ Please read through all the following installation methods, and make sure you understand how to use required tools before installation.
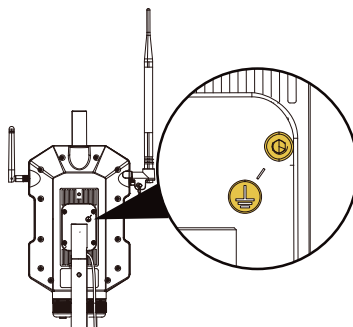
⚠ NOTICE

■ The most important thing for installing the Data Center Set is to ensure that the Data Center have a 120° unobstructed view of the sky. Please choose the most suitable method for your home. Additionally, the Data Center requires a wired network connection (A 30-metre-long Ethernet cable is provided), so it is necessary to find a location where the Data Center is not too far from the router in your house and has a 120° unobstructed view of the sky.

2.3.1 Installation Preparation

Data Center

2 meter Ethernet Cable

30 meter Ethernet Cable

x3
Grass Pegs for Data Center

x3
Wood Nails for Mount

Halow Anttena for Data Center

Bluetooth Antenna for Data Center

RTK Antenna for Data Center

x3
Expansion Bolts for Mount

x7
DC Connection Bolts

Extension Pole for Mount

Standard Pole for Data Center

Halow Antenna Clip for Data Center

Clip bushing

Clevis Pin

R-clip

x1
Cap

x1
T-joint

⚠ WARNING

■ Given the recommendation to install the Data Center at the top of a house, it is crucial to implement comprehensive lightning protection measures to safeguard against potential damage caused by lightning strikes. In areas where lightning activity is frequent, the risk of such damage increases significantly. We strongly advise those residing in high-lightning-activity regions to buy a grounding cable. This critical component allows for the safe dissipation of excess electrical current into the earth, minimizing the risk of Data Center damage.

2.Installation Guide

2.3.2 Data Center Installation

> ⚠️ **NOTICE**
>
> ■ Please make sure that the place you choose for insatallation has a clear of the sky with at least 120 degree of unobstructed space.
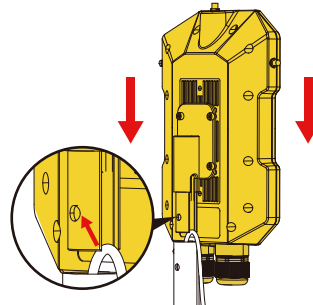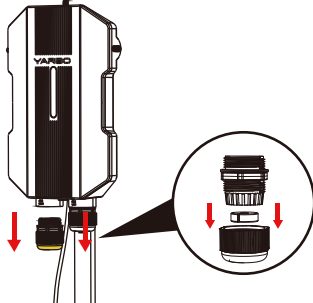
Method 1   **Roof and Wall Installation**

Locate the 30m ethernet cable and extension pole provided in the Yarbo Core box. Thread the ethernet cable through the extension pole.
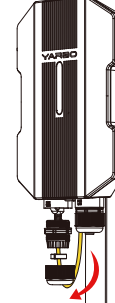

Connect the Data Center to the extension pole(press the small button on the data center and aligning this button to the hole in the pole). Pull out a small section of the cable to ensure it can be reached and connected to the ethernet port.
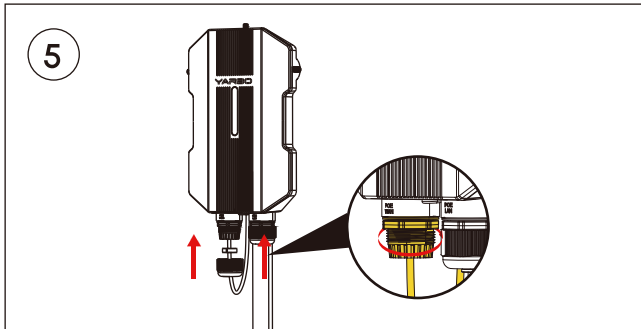

Carefully unscrew the entire gland set on the WAN port of the Data Center. Remove the gland cover and push out the black rubber plug.
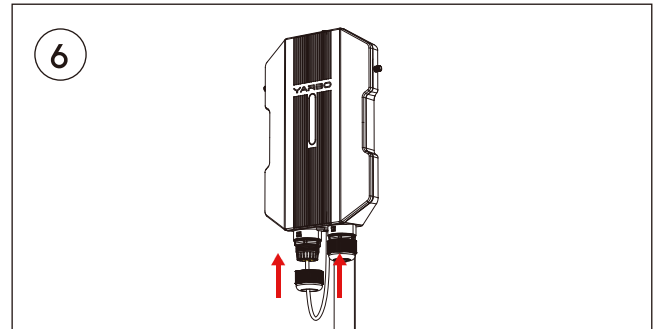

Thread the ethernet cable through the gland and its cover. Locate the opening of the black rubber plug and snap it onto the ethernet cable.
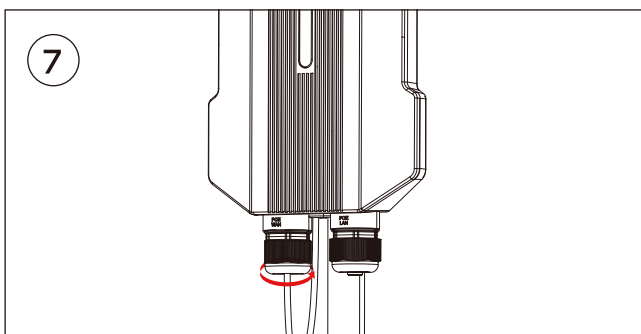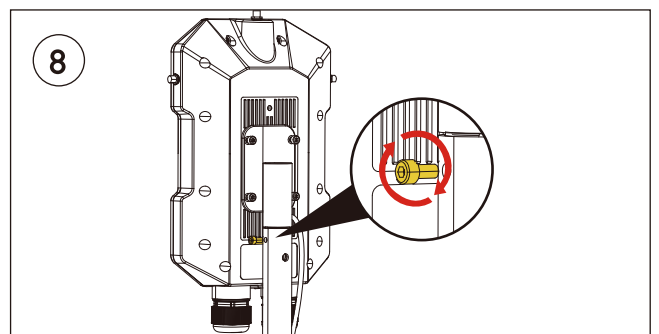
2.3.2 Data Center Installation

Connect the ethernet cable to the WAN port and tighten the gland by screwing it in.
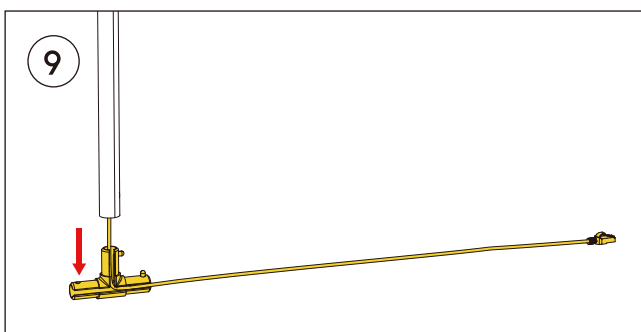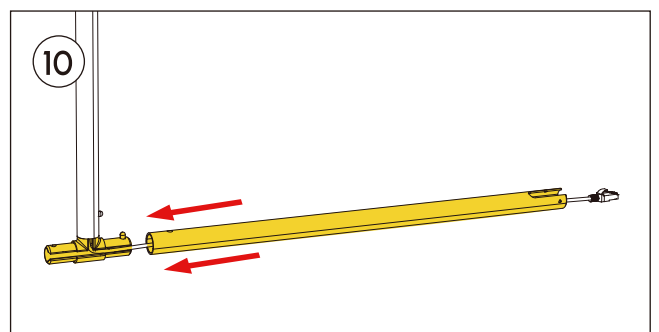
Push the black rubber plug into the gland.

Screw and tighten the cover of the gland.

Screw one connection bolt to fasten the connection part between the Data Center and the extension pole.

Press the cable into the crevice of a T-joint as shown in the picture. Connect the extension pole to the T-joint by pressing the round button on the T-joint and align this button with the hole in the extension pole.
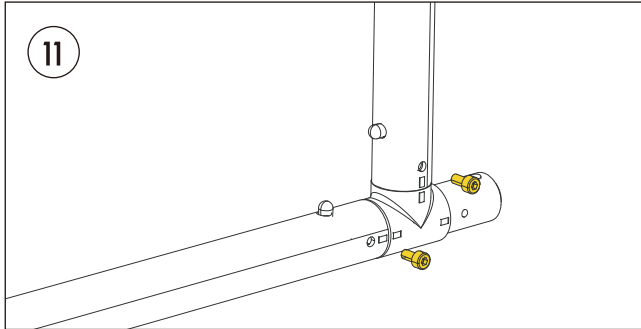
Press the round button on the T-joint and align it with the hole in the standard pole to connect two parts and secure the connection.
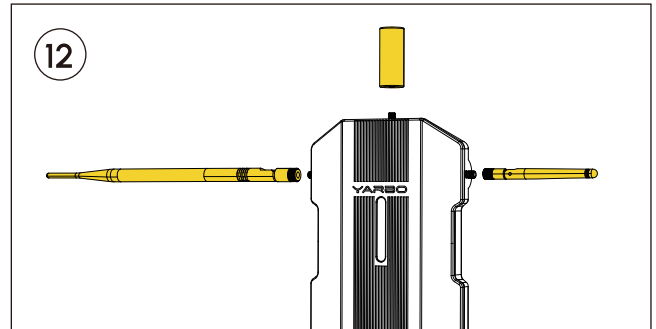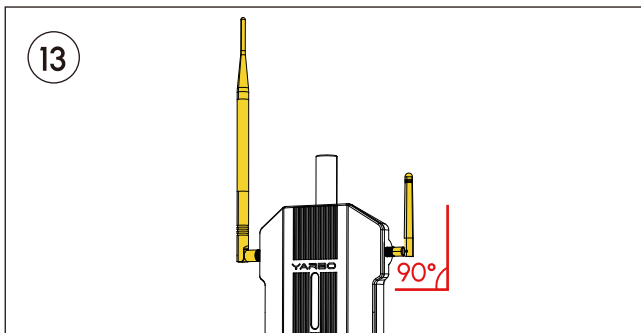
2.Installation Guide
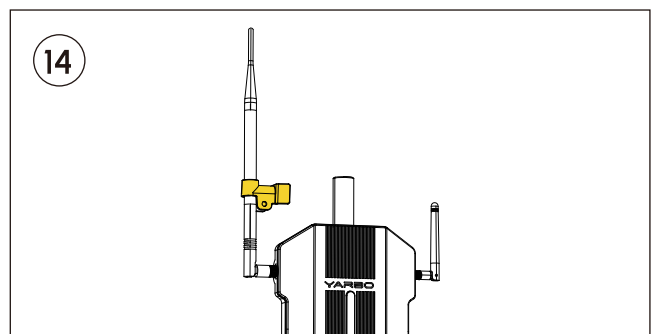
2.3.2 Data Center Installation

Screw in the two connection bolts to stabilize the T-joint, standard pole, and extension pole.

Locate the three antennas provided in the Yarbo Core box and securely tighten them.

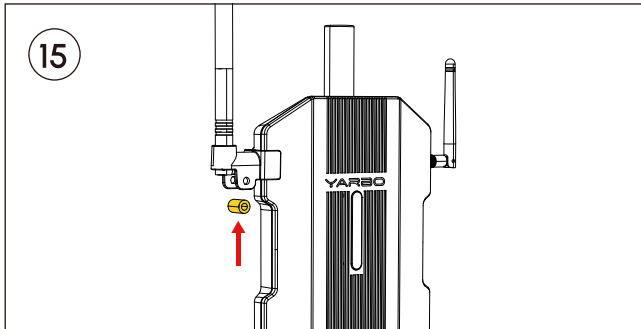Fold the Halow Antenna and Bluetooth Antenna at a 90-degree angle, directing them upwards towards the sky.
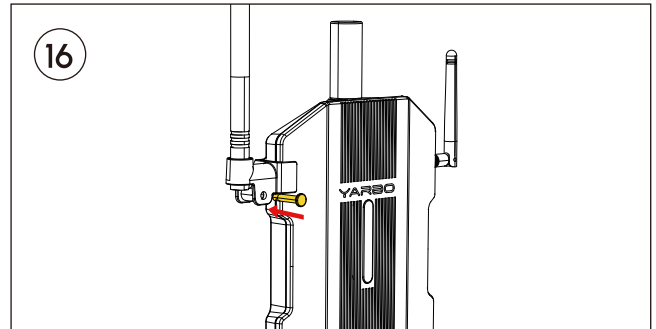

Locate the Halow Antenna Clip through the Halow Antenna.

⚠ NOTICE

■ If it is impossible to drill through the wall or other hard material, the cable can be dragged out from the side of the mount.
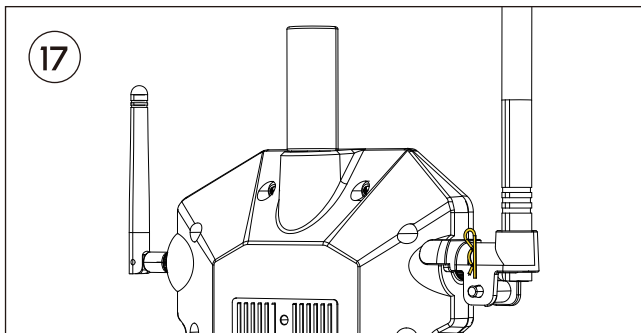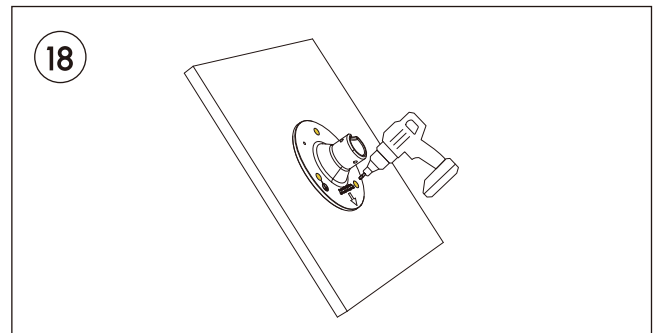
2.3.2 Data Center Installation

Move the Halow Antenna Clips to the bottom of the Halow Antenna and snap the Data Center.Then put on the Clip bushing.

Tighten the Clevis Pin to ensure that the antenna is secure.

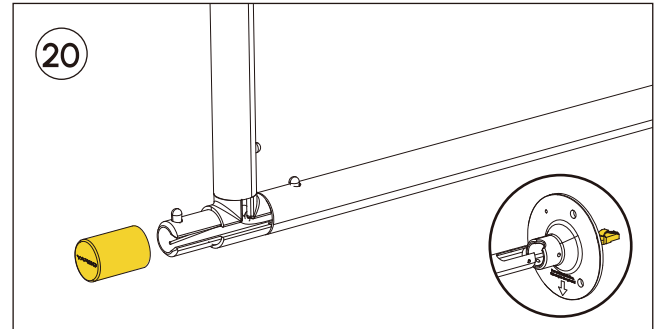Pass the R-clip through the holes in the Clevis Pin, making sure the Clevis Pin are secure.

Position the mount on the roof and mark the locations for four holes (5/16" or 8mm). Drill the holes, ensuring that the center hole is drilled to an adequate depth to allow the ethernet cable to be threaded into the house for router connection.

2.Installation Guide
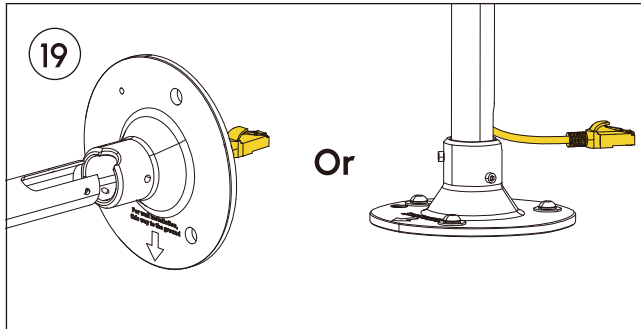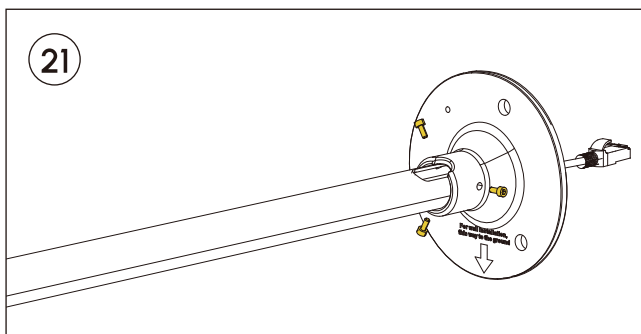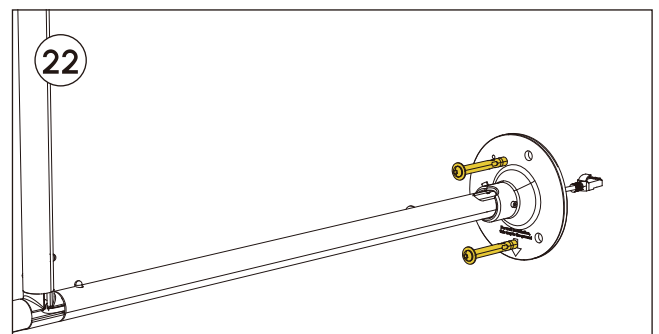
2.3.2 Data Center Installation

Thread the ethernet cable through the middle hole of the mount , or pull out the Ethernet cable through the opening or gap in the pole carefully.

Attach the cap securely to the side of the T-joint.

Screw in three connection bolts for pole to stablize the mount and standard pole.

Secure the mount by fastening the three connection bolts. Use wood screws for wooden surfaces, expansion bolts for hard surfaces like concrete or walls and grass pegs for lawns.

⚠ **WARNING**

- When installing the Data Center Set on the roof, exercise extreme caution. Ensure compliance with local regulations regarding working at heights and always use appropriate safety equipment.
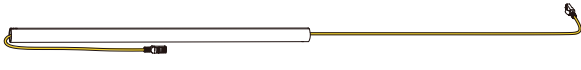
2.3.2 Data Center Installation

> ⚠️ **NOTICE**
>
> ■ Please make sure that the place you choose for insatallation has a clear of the sky with at least 120 degree of unobstructed space.
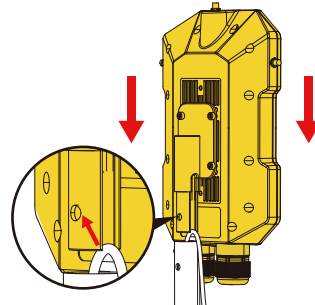
**Method 2** — **Ground Installation**

① Locate the ethernet cable and extension pole provided in the Yarbo Core box. Thread the ethernet cable through the extension pole.
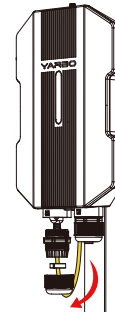
② Connect the Data Center to the exten-sion pole(press the small button on the data center and aligning this button to the hole in the pole). Pull out a small section of the cable to ensure it can be reached and connected to the ethernet port.
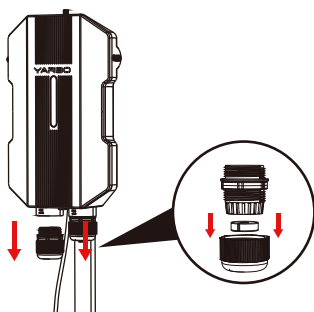
③ Carefully unscrew the entire gland set located on the WAN port of the Data Center. Remove the gland cover and push out the black rubber plug.
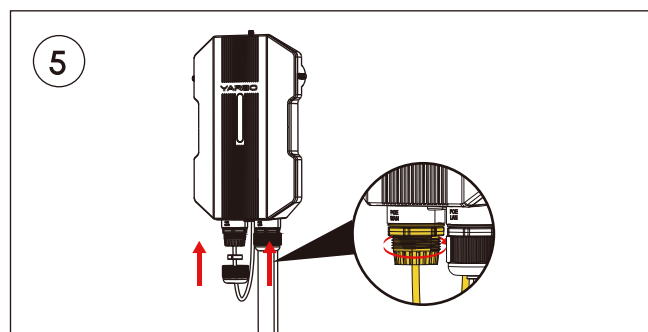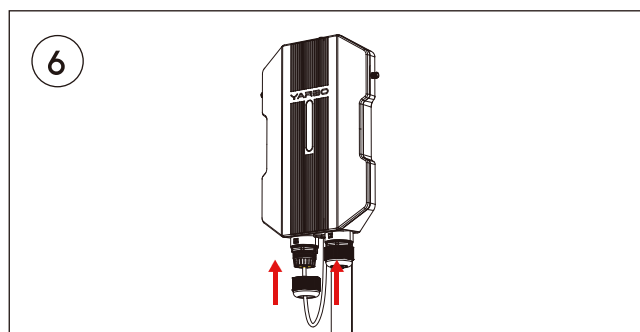
④ Thread the ethernet cable through the gland and its cover. Locate the opening of the black rubber plug and snap it onto the ethernet cable.
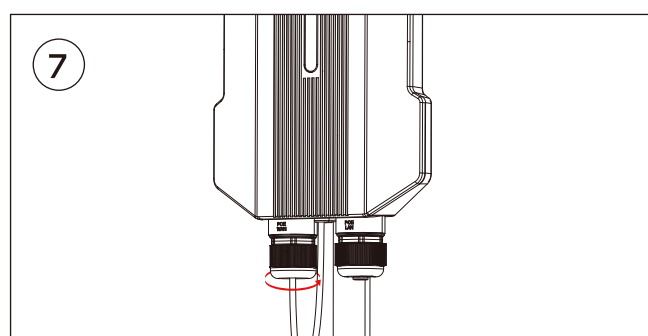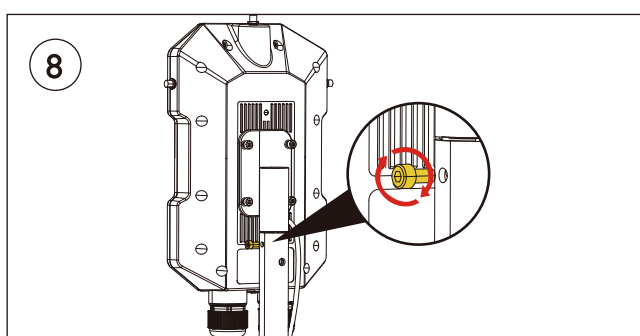
2.3.2 Data Center Installation

Connect the ethernet cable to the WAN port and tighten the gland by screwing it in.
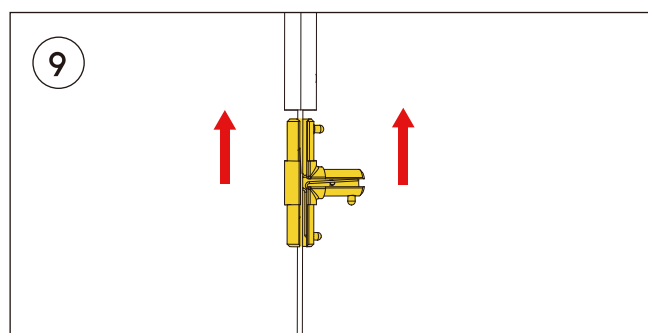

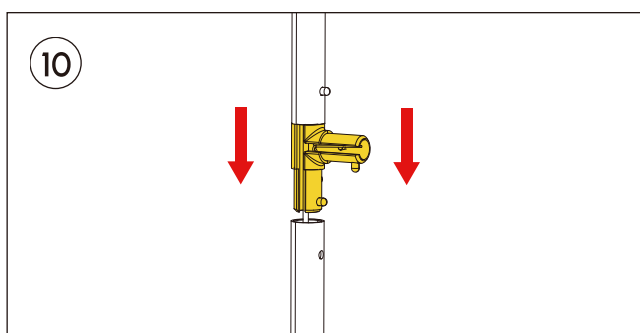Push the black rubber plug into the gland.

Screw and tighten the cover of the gland.

Screw one connection bolt to fasten the connection part between the Data Center and the extension pole.


Press the cable into the crevice of a T-joint as shown in the picture. Connect the extension pole to the T-joint by pressing the round button on the T-joint and align this button with the hole in the extension pole.
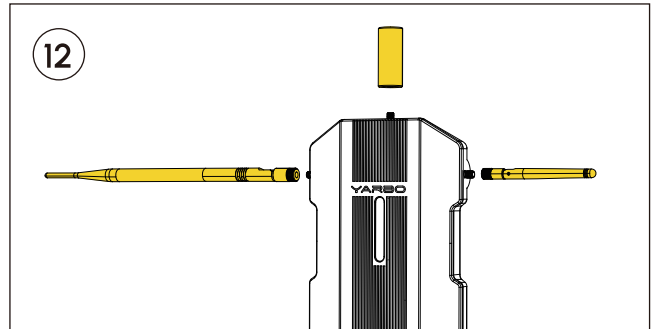

Press the round button on the T-joint and align it with the hole in the standard pole to connect two parts and secure the connection.
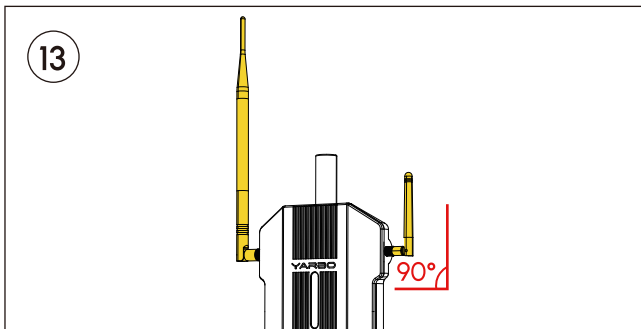
2.3.2 Data Center Installation
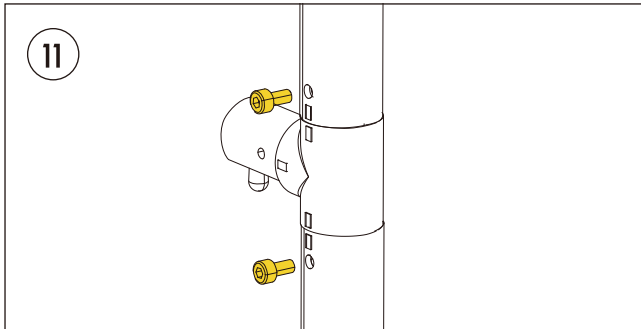
Screw in the two connection bolts to stabilize the T-joint, standard pole, and extension pole.

Locate the three antennas provided in the Yarbo Core box and securely tighten them.

Fold the Halow Antenna and Bluetooth Antenna at a 90-degree angle, directing them upwards towards the sky.
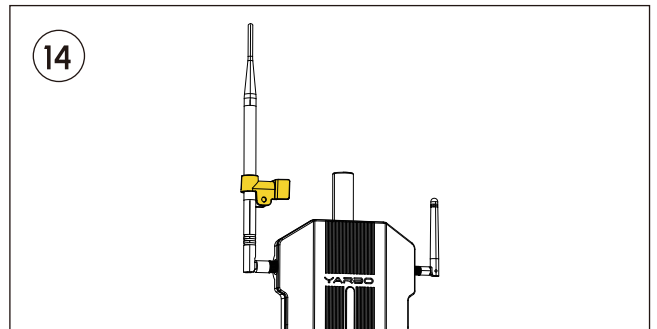
Locate the Halow Antenna Clips through the Halow Antenna.

⚠ NOTICE

■ If it is impossible to drill through the wall or other hard material, the ethernet cable can be dragged out from the side of the mount.

2.Installation Guide

2.3.2 Data Center Installation

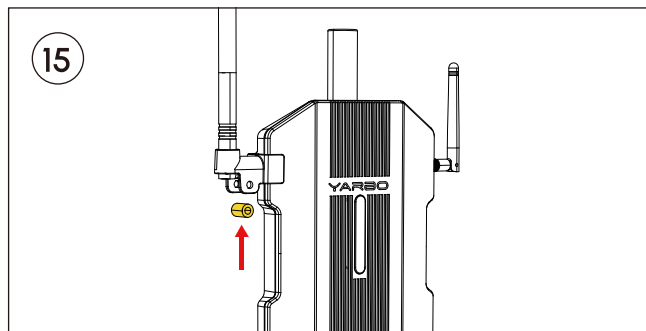Move the Halow Antenna Clips to the bottom of the Halow Antenna and snap the Data Center.Then put on the Clip bushing.
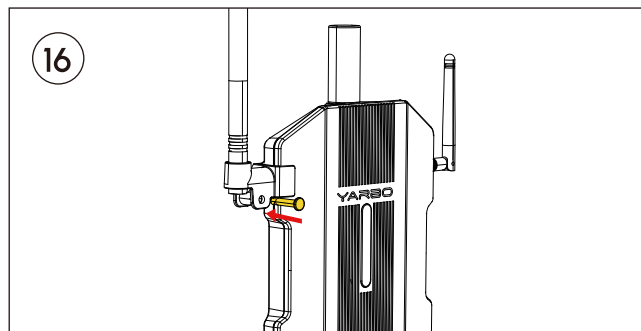
Tighten the Clevis Pin to ensure that the antenna is secure.
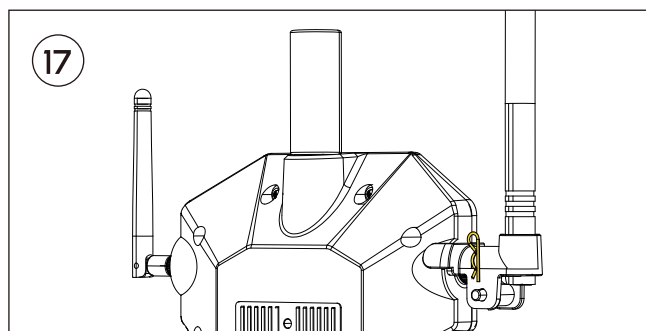
Pass the R-clip through the holes in the Clevis Pin, making sure the Clevis Pin are secure.

Thread the ethernet cable through the middle hole of the mount , or pull out the Ethernet cable through the opening or gap in the pole carefully.

2.3.2 Data Center Installation

Attach the cap securely to the side of the T-joint.

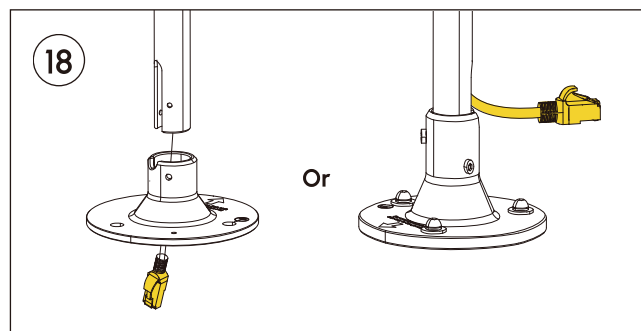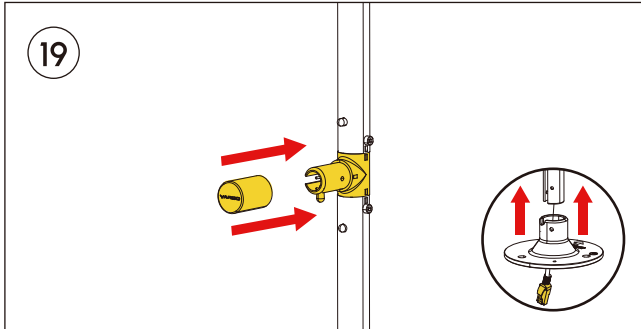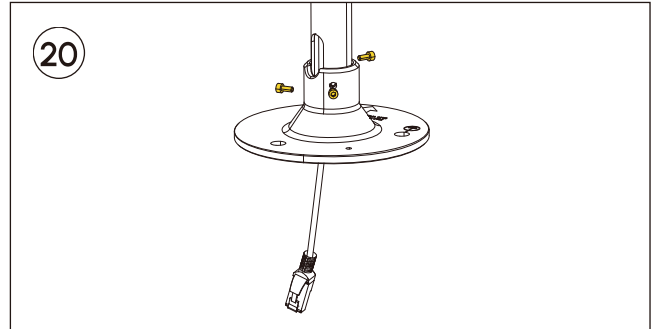Screw in three connection bolts for pole to stablize the mount and standard pole.
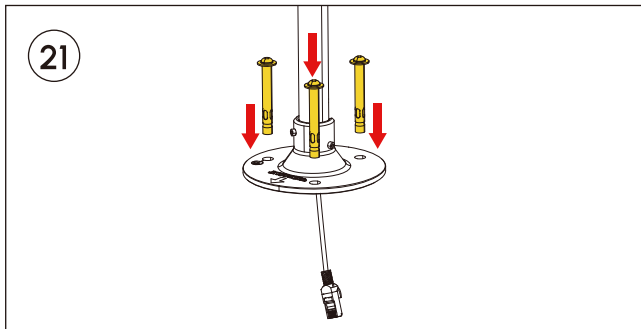
Secure the mount by fastening the three connection bolts (use wood screws for wooden surfaces, expansion bolts for hard surfaces like concrete or walls, and grass pegs for lawns).

⚠ **WARNING**

■ When installing the Data Center Set on the roof, exercise extreme caution. Ensure compliance with local regulations regarding working at heights and always use appropriate safety equipment.

2.Installation Guide

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2.3.3 Ethernet Cable Connection
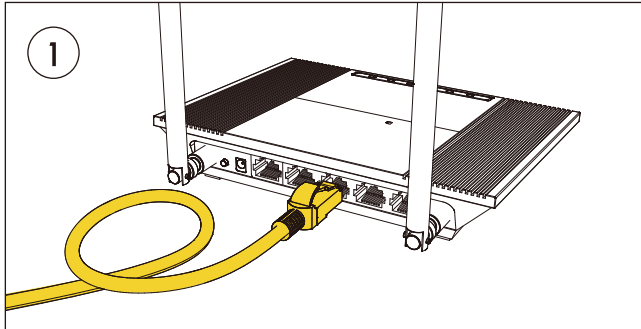
Locate the 2-meter long ethernet cable and the POE power adapter provided in the Yarbo Core Box and connect one side of the ethernet cable to the router.
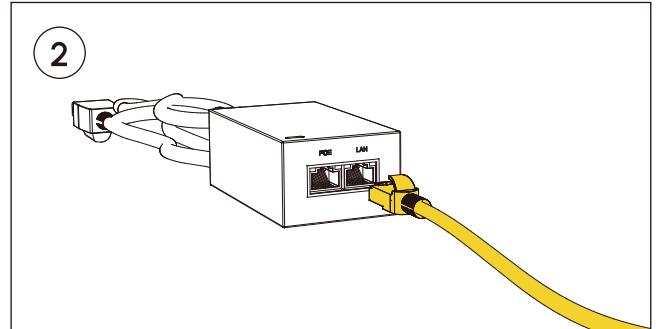
Connect the other side of the ethernet cable to the LAN port of POE power adapter.
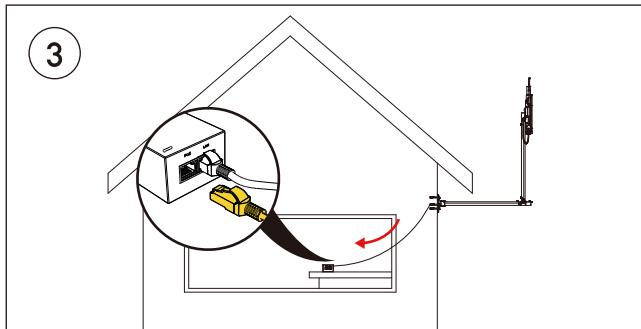
Pull the Ethernet cable that has been threaded through the Data Center Set and connect it to the POE port of the POE power adapter.
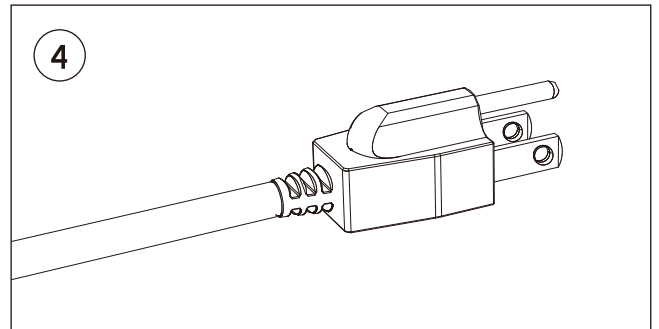
Insert the plug of the power adapter into the electrical outlet.

2.3.4 Data Center Signal Lights

LED Indicator	Status	Description	Action
🟢 Solid Green	Normal	1. Normal RTK Signal 2. Normal Internet Connection	/
☀️ Flashing Green	Internet abnormal	1. Normal RTK Signal 2. No Internet Connection	Check the status of Internet connection
☀️ Flashing Red	RTK Signal abnormal	1. No RTK Signal	Check cable connection is correct, inspect if RTK antenna is broken or loose.
☀️ Flashing Blue	Pairing mode	1. Pairing mode activated	/
🔵 Solid Blue	Pairing successful	1. Pairing is successful	/

2.Installation Guide

2.4 Installing the Docking Station
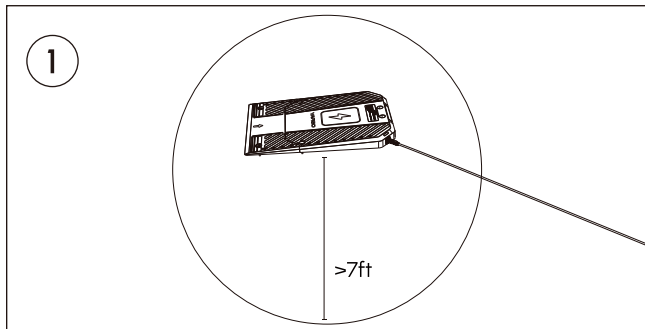
Ensure the installation location for the Docking Station has at least **7 feet** of clearance in all directions. Before proceeding, make sure you have already initialized Yarbo using the Yarbo App.
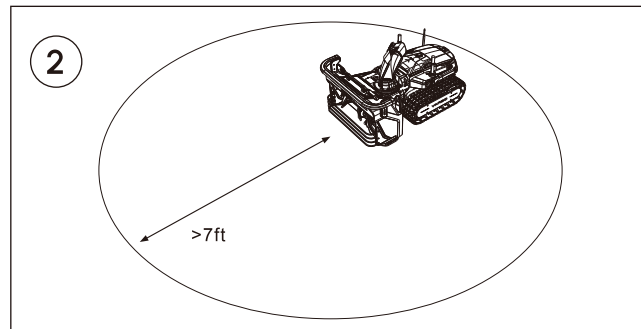
Drive Yarbo to the desired location for the Docking Station to test if there is strong GPS signal. Once Yarbo reaches a position with a strong GPS and network connection, the app will notify you.
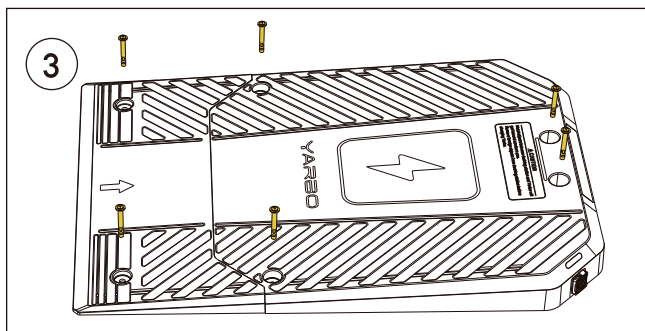
Place the Docking Station on the desired location. Secure the Docking Station by suitable methods. For soil/grass surface, use grass pegs. For concrete/brick surfaces, use expansion bolts. Grass pegs and expansion bolts are provided in the package
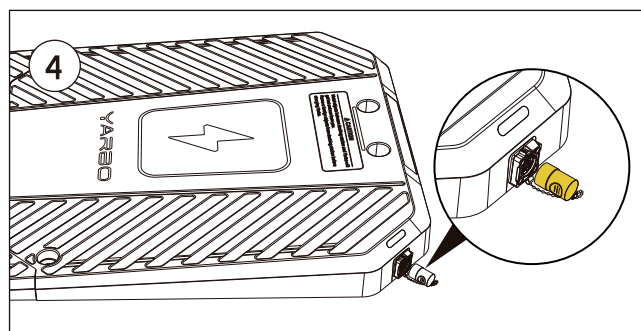
Press the snap and remove the cover
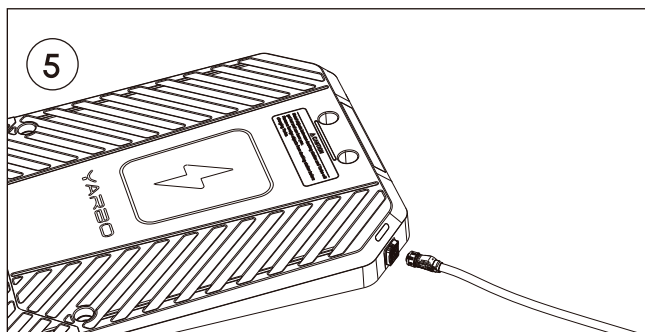
Connect the Power Cable to the port in the docking station
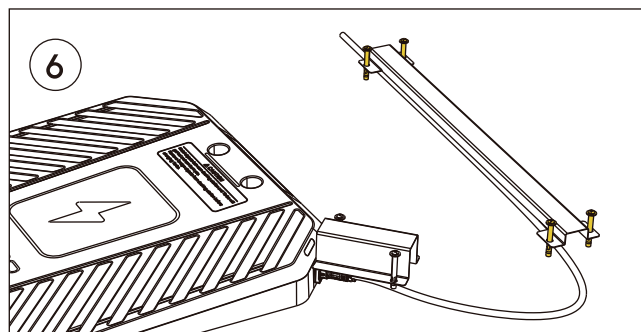
Place the Short Cable Ramp near the port and place the Long Cable Ramp on the Power Cable. Secure the Cable Ramp by suitable methods.

3.Yarbo App

Before you embark on your journey with our app, we encourage you to take a few moments to read through this user manual sicne Yarbo App serves as an important tool for the operation. As a result, understanding the features and acknowledging how it works is essential for maximizing your experience. If you haven't downloaded the app yet, please refer to section 2.2.

3.1 Features Statement

1.Mapping

The mapping function is tailored for users to create a detailed map of the area where Yarbo to operate. Normally, A map encompass the docking station, pathways, woking areas, no-go zones. With the map, Yarbo can design its blowing route and execute the work plan depending on the personal schedule. The provided picture serves as an example of the map, showing two designated working areas, one No-go Zone, two Pathways and docking station. In addition, the yellow line of each area represents the snow blowing direction.
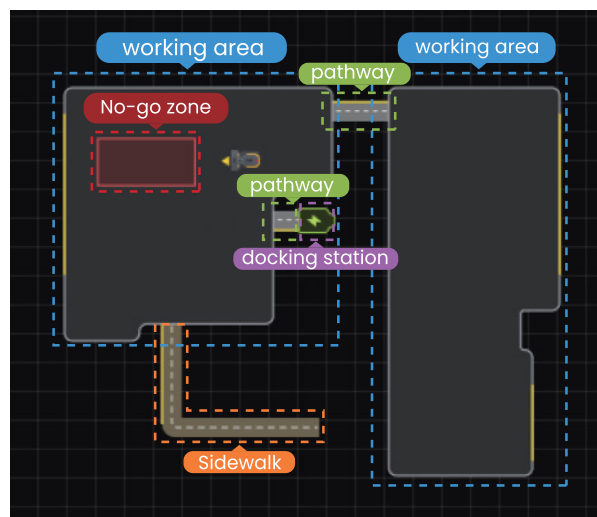
3.Yarbo App

① **Docking Station**: The docking station for Yarbo serves a dual purpose: it acts as the charging station, indicated by a green battery symbol on the map, and it also serves as the designated starting point for the execution of the work plan. In the event that the docking station needs to be relocated, it is imperative that the new position should be updated on the map by clicking to reinstall the docking station.

② **Pathway**: A pathway is designed to be a narrow lane that connects the two elements. A pathway can connect the docking station and the working area. At the same time, it can also connect two working areas as shown in the map.

③ **Working Area**: The working area refers to the specific zone where you intend Yarbo to perform snow blowing operations. This area must be fully enclosed and cannot exist independently without a pathway connecting it to the docking station. As a user, you don't need to specify the route for Yarbo when it is in operation. The only step required is to mark the boundary of the working area by driving the Yarbo along the perimeter.

④ **No-go Zone**: The "No-go zone" refers to enclosed areas within the working area where you do not want Yarbo to enter. Typically, these areas include the swimming pool, flowerbeds, restricted areas, and large obstacles that may obstruct Yarbo's normal operation.

⑤ **Sidewalk**: A sidewalk refers to a narrow path that is as wide as the vehicle itself. Unlike a pathway, a sidewalk does not need to connect to other map elements at both ends. One end of the sidewalk can remain unconnected, terminating in an empty space.

2.Work plan

The Work Plan feature is designed to help users create their own snow blowing schedules. Each work plan can be customized by choosing one or more elements on the map. In other words, users can create different work plans that include different elements on the same map. The purpose of creating different work plans is to ensure that different elements can have different working schedules.

3.Schedule

The Schedule feature empowers users to establish precise working time slots and work frequencies for the created work plan. Each schedule can only be linked with one work plan at a time, ensuring clarity and efficiency in task management. By utilizing schedules, users can enjoy 100% hands-free activities in alignment with their specific requirements.
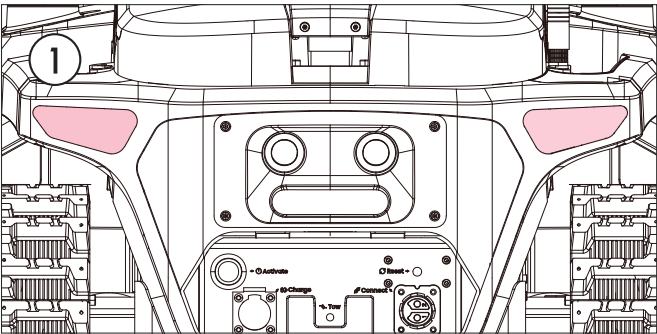
4.Physical Controller Instruction

Physical controller is an alternative method for controlling Yarbo. This section aims to provide basic instructions for operating the Yarbo using the physical controller.
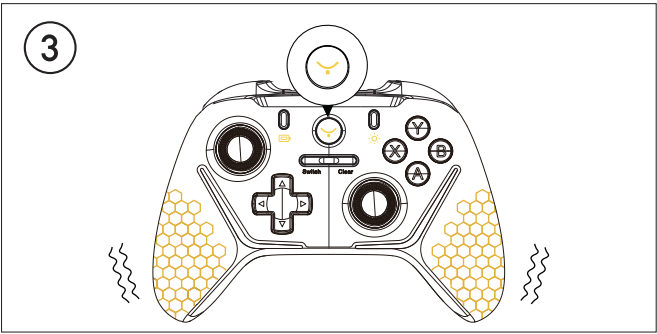
4.1 Connecting Yarbo Controller

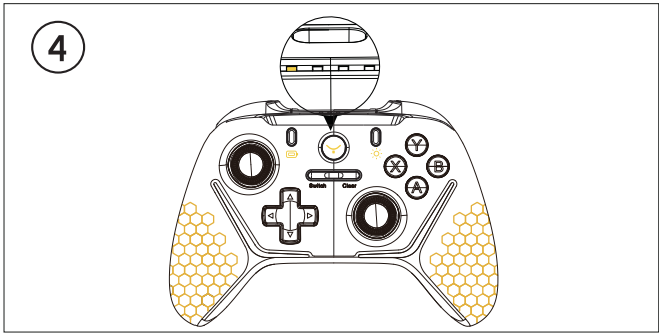### 4.1.2 Connecting physical controller to Yarbo

Before proceeding, ensure that Yarbo is powered on. A solid red light on the Yarbo (shown on following figure) indicates that Yarbo is powered on and ready for the controller setup.
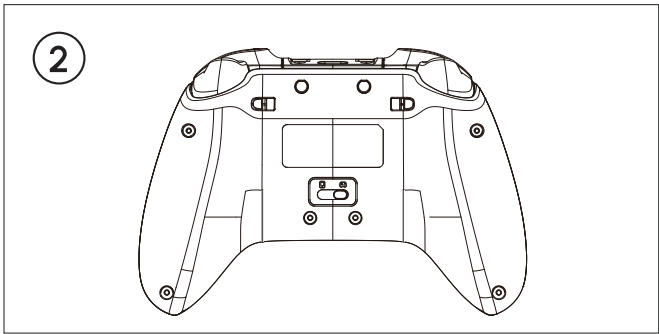
Make sure the slide switch is slid to the right side.

Short press the Yarbo Logo Button to power on the physical controller.

Observe the LED light on the top of Yarbo Controller. If the yellow light is on steadily, it indicates that the physical controller has been successfully connected.