

SmartBarrel Installation Guide

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Hardware Information

WallMount Device Components

- Status Light
- Camera
- Flash
- LCD Screen
- RFID Scanner
- Keypad
- Ethernet Port
- Power Jack
- Power Button



WallMount Device Basics

- Online 24/7
- 4G LTE Connected
- WiFi and LAN compatible
- GPS Connected
- Weather Resistant and Rugged



- Communicates with SmartBarrel dashboard securely via 4G network and latest cloud technology.

Solar Box Components

- Solar Panel
- Solar Panel Lid
- Battery Enclosure
- Solar Charging Cord
- Power Cord



Power Adapter Components

- Adapter
- Cord Connector
- Cord

* Assembled prior to shipping.

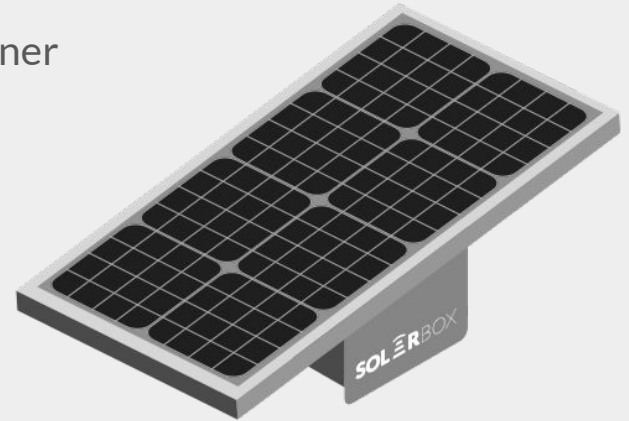
Hardware Maintenance

WallMount Device Maintenance

- Wipe down camera, screen, and keypad as needed
- Make sure power source is 24/7 reliable
- If offline, try restarting the device by typing 0298 + Enter
- If the device goes offline often, it may need to be moved to an area with a better cellular reception. SmartBarrel Support can help you evaluate.
- Contact SmartBarrel Support as soon as the device shows any unexpected behavior

SolarBox Maintenance

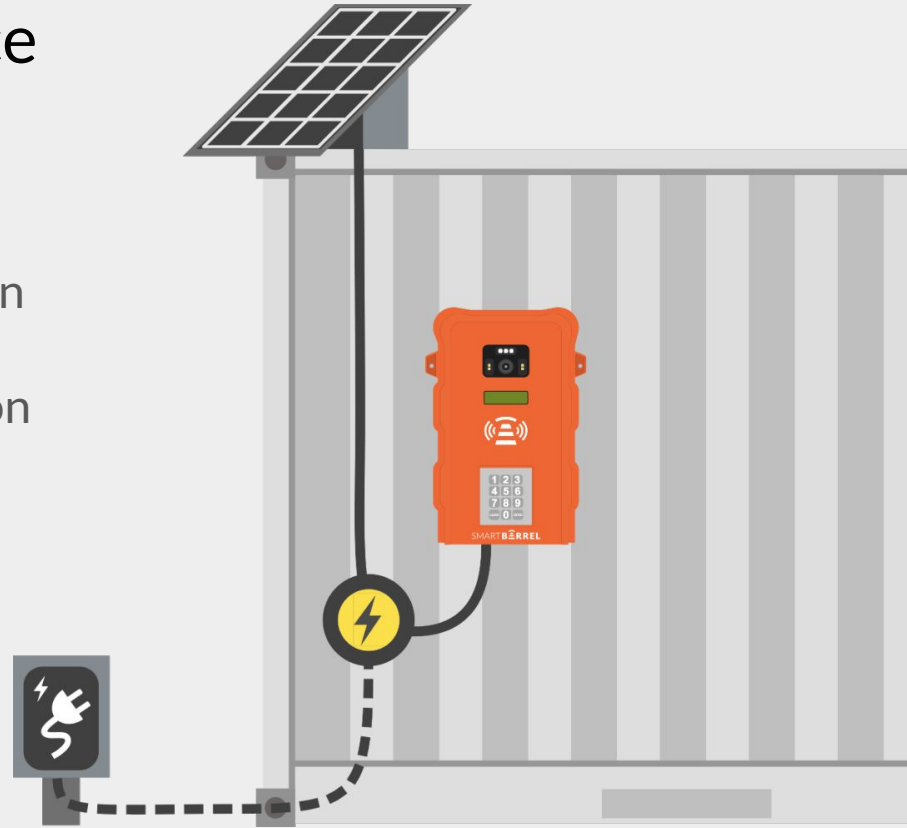
- The solar panel should always be free of dust, debris, snow, and shade
- The solar panel can be cleaned with any standard glass cleaner
- The solar panel should always be angled south
- Power should always be above 25%
- The solar panel needs to see a minimum of 5hrs of sunlight during the day



Installing Your WallMount Device

Installing your WallMount device

1. Choose a location to mount the device
2. Install the power source in a safe location
3. Mount the device in your desired location
4. Plug power source into the device
5. Turn the device ON
6. Confirm connection to the cloud



1. Choose a Location

- Near site entrance/exit
- Does not disrupt workers or ongoing work
- Quality cellular reception
- Adequate for power source
 - Adapter - Outlet nearby with 24/7 power
 - Solar Box - minimum of 5 hrs direct sunlight during the day
- Other Considerations:
 - Will the device need to be moved in the future?
 - Should the device be mounted to a mobile structure?
 - Should we build a structure for it or use our existing surroundings?
 - Should we plan to switch from solar box to adapter when possible? What will that look like?



2a. Installing your Power Adapter

- Plug the adapter into any standard 110v/120v outlet that is adequate for long-term usage.
- Make sure the adapter is safe from weather and surroundings.
- Make sure the connection between the cord and the adapter is screwed tight
- Check that the adapter's cord will have enough length to reach your device's desired mounting location

2b. Installing your SolarBox

- Install on a flat surface elevated at least 6 feet or more that receives a minimum of 5 hrs of sunlight daily
- Downwards angle of the panel should face south - this ensures it receives the most sunlight throughout the day.
- Ensure the power cord has enough length to reach the device's desired mounting location
- Strap-down the box underneath the panel if necessary

3a. Mount the WallMount Device w/ Fasteners

- Confirm the location is compatible with the location of your power source
- Measure 64" from the ground and mark a level line
- Install fasteners 5 ½ inches apart on your level line, perpendicular to the wall
- Fasteners should protrude from the wall between ¼ and ½ inch
- Hang the device on the fasteners and make sure it is stable and secure.

3b. Mount the WallMount Device w/ Magnets

- Confirm the location is compatible with the location of your power source
- Find or install any flat magnetic wall near the power source
- Mount the device at a height of 64"
- Make sure the device is secure and will not be dislodged during day-to-day operations. If your office trailer has a heavy door, it may dislodge the device if slammed.

4. Plug in the WallMount device





- Find the power jack located at the bottom of the device
- Plug your power source into the power jack
- Secure any additional slack behind the device so that it is out of the way



5a. Turn ON the WallMount Device

- Press the ON/OFF Button located on the bottom of the device. The device will beep when it receives power.
- Once ON, the device will start to establish a connection with the network. When ready, the device will display “Enter Phone #” on the screen.
- If the device does not establish a connection, it will go to sleep. If this happens, please contact SmartBarrel Support for assistance.

5b. Confirm the WallMount Device is Online

- Open the project in your SmartBarrel dashboard
- Scroll down to “devices” section
- Check what color your device is showing:
 - Green = Online in the last 5m
 - Yellow = Online in the last hour
 - Red = Offline for over 1 hour

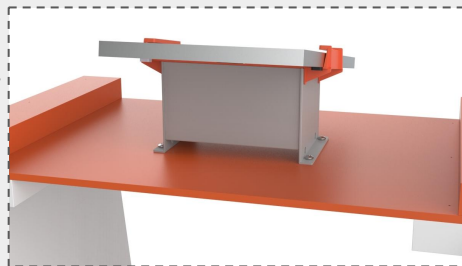
Devices			
Name	Last seen	Connection	Power
Barrel_0131	13 minutes ago		
Barrel_0155	5 minutes ago		

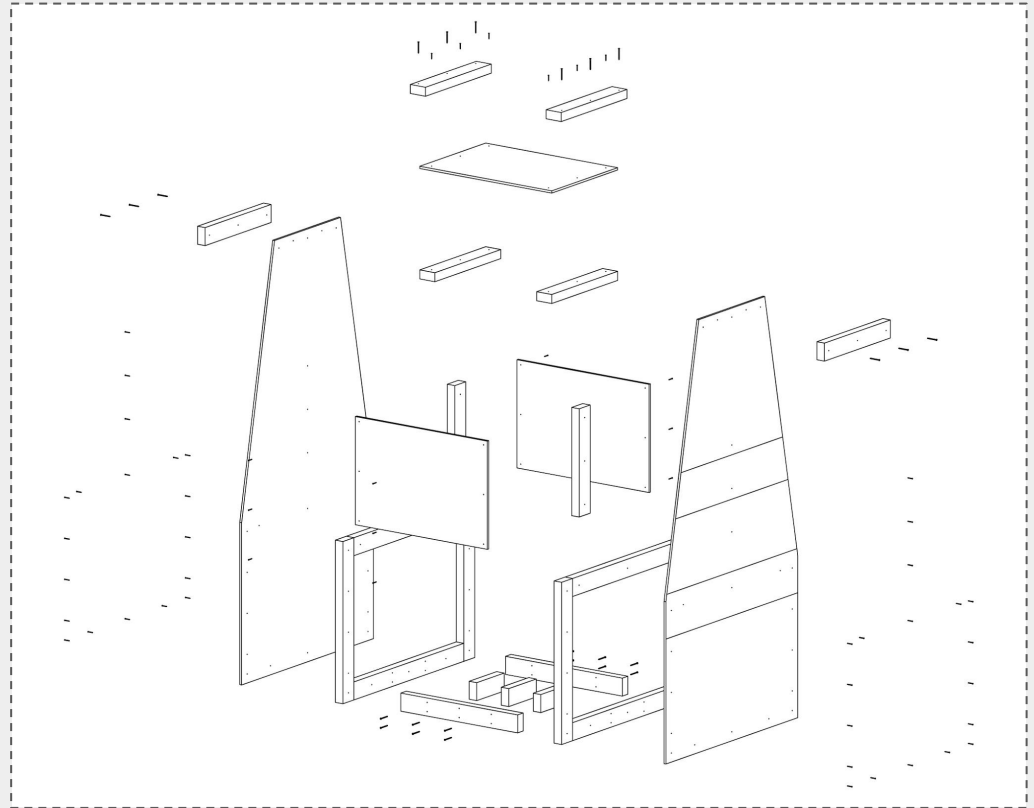
Devices			
Name	Last seen	Connection	Power
Barrel_0195	about 18 hours ago		

- You can also check on the device by typing **0300 + Enter**

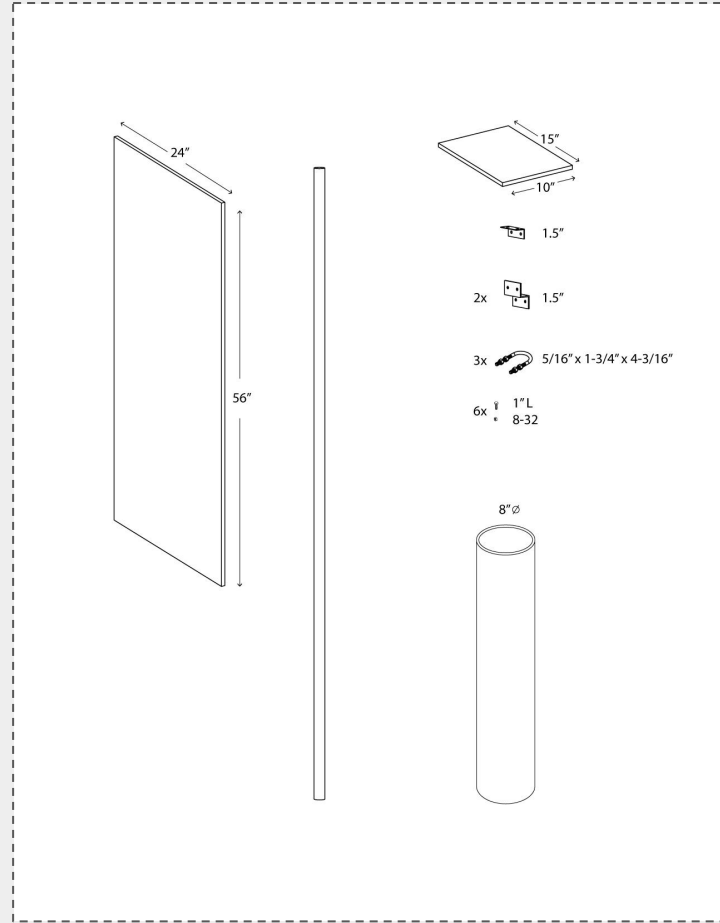
Build-Your-Own Kiosk

Kiosk (Finished)

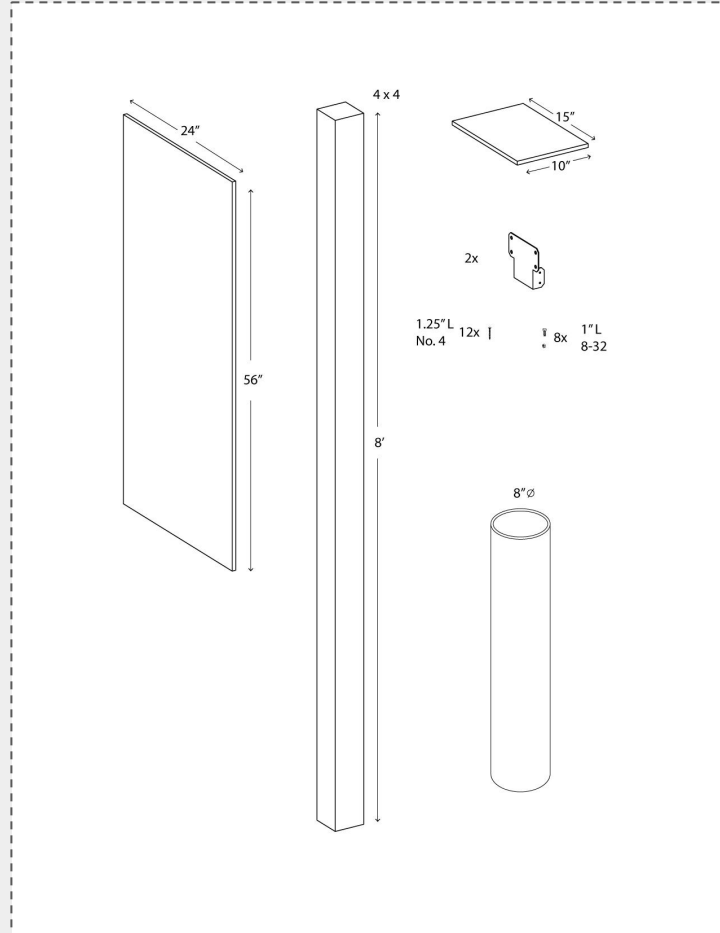
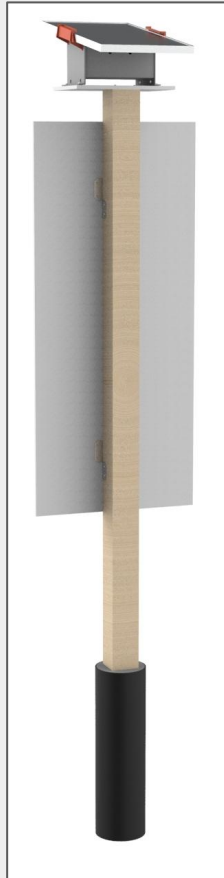




Pole Mount

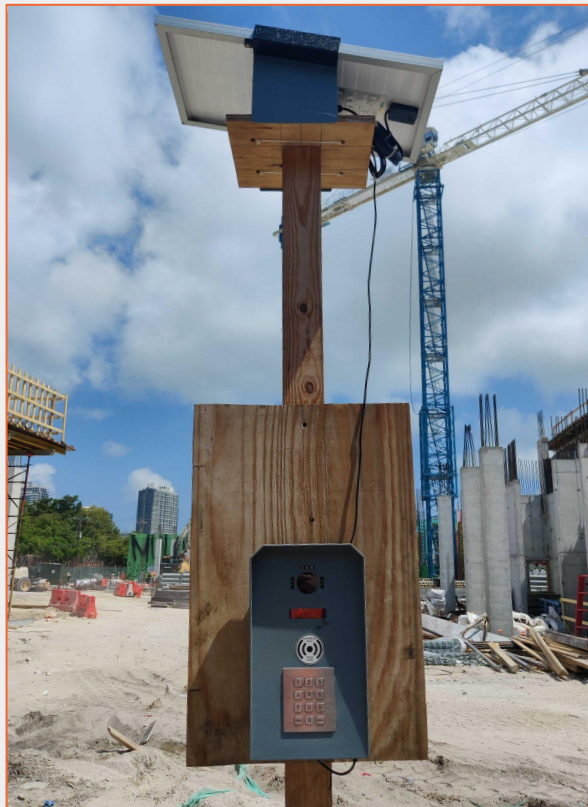


Wood 4x4 Mount



Example Installations

SolarBox + BYO Kiosk



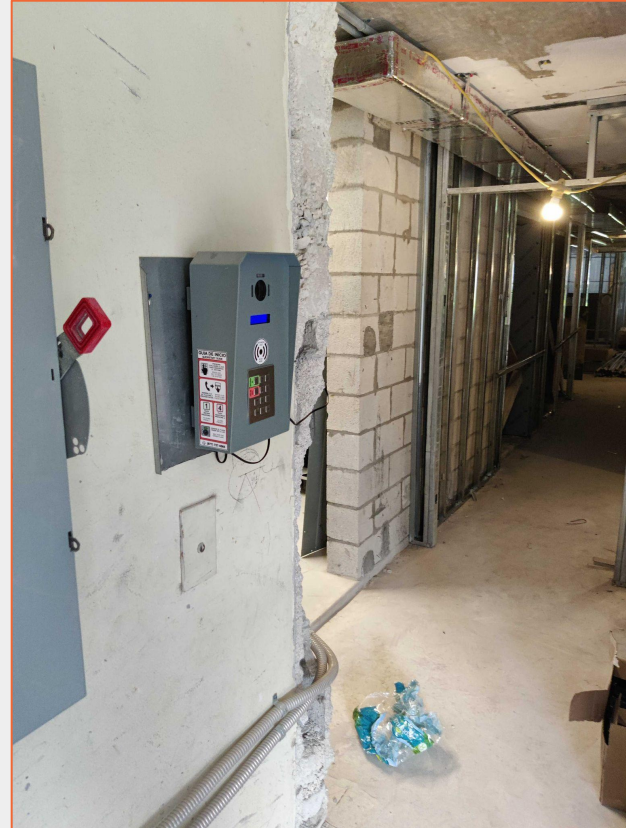
SolarBox + Office Trailer



Power Adapter + Fastener Mount



Power Adapter + Steel Plate



Power Adapter + Trailer



What **NOT** to do!

What NOT to do!



What NOT to do!



What NOT to do!



What NOT to do!



What NOT to do!



What NOT to do!



FAQs

Frequently asked questions....

- Can I install the WallMount device inside my office trailer?
 - SmartBarrel recommends installing devices outdoors so they are accessible 24/7. While larger office trailers may work fine, converted shipping containers will not allow a strong enough signal for the device to function properly due to the steel walls.
- Can I move the WallMount device if needed?
 - We recommend to avoid moving the device so workers always know where to locate it on-site. The device can be moved as long as you follow the installation guidelines at the new location. Many customers opt to build a kiosk so they can move everything as one unit with a machine. Just be sure that all the equipment is properly secured before using this method.

Frequently asked questions....

- Can I have more than 1 WallMount device on a project?
 - Yes, you can have as many devices as your project requires. The devices will all be linked to the project and communicate with the same database. We recommend putting a device at each entrance to the site.
- Can the solar panel and SolarBox be separated?
 - Yes, you can mount the solar panel in a separate location if needed. However, if they are separated, the solar box must be protected from rain and weather. Normally, the solar panel will function as a canopy for the rain to protect the solar box. We recommend keeping them together so the solar panel is properly angled to charge as fast as possible.

Frequently asked questions....

- What if my equipment breaks?
 - If any SmartBarrel devices are broken during shipping, please contact support for a replacement. If they are broken during use, please contact support and inform them what damage was caused and how it happened. We will replace the equipment and inspect the cause of the damage.
- What is the best way to secure the SolarBox?
 - If you have a newer solar box, it will contain ears with keyholes intended to be used for screwing down the SolarBox. You can also run a ratchet strap or rope underneath the panel and secure it this way. If you are still unsure, SmartBarrel's support team can consult you on the best practices for your project.

Contact Support

Need Help? We're Ready!

- support@smartbarrel.io
- 877-727-5565
- Live Chat from Dashboard