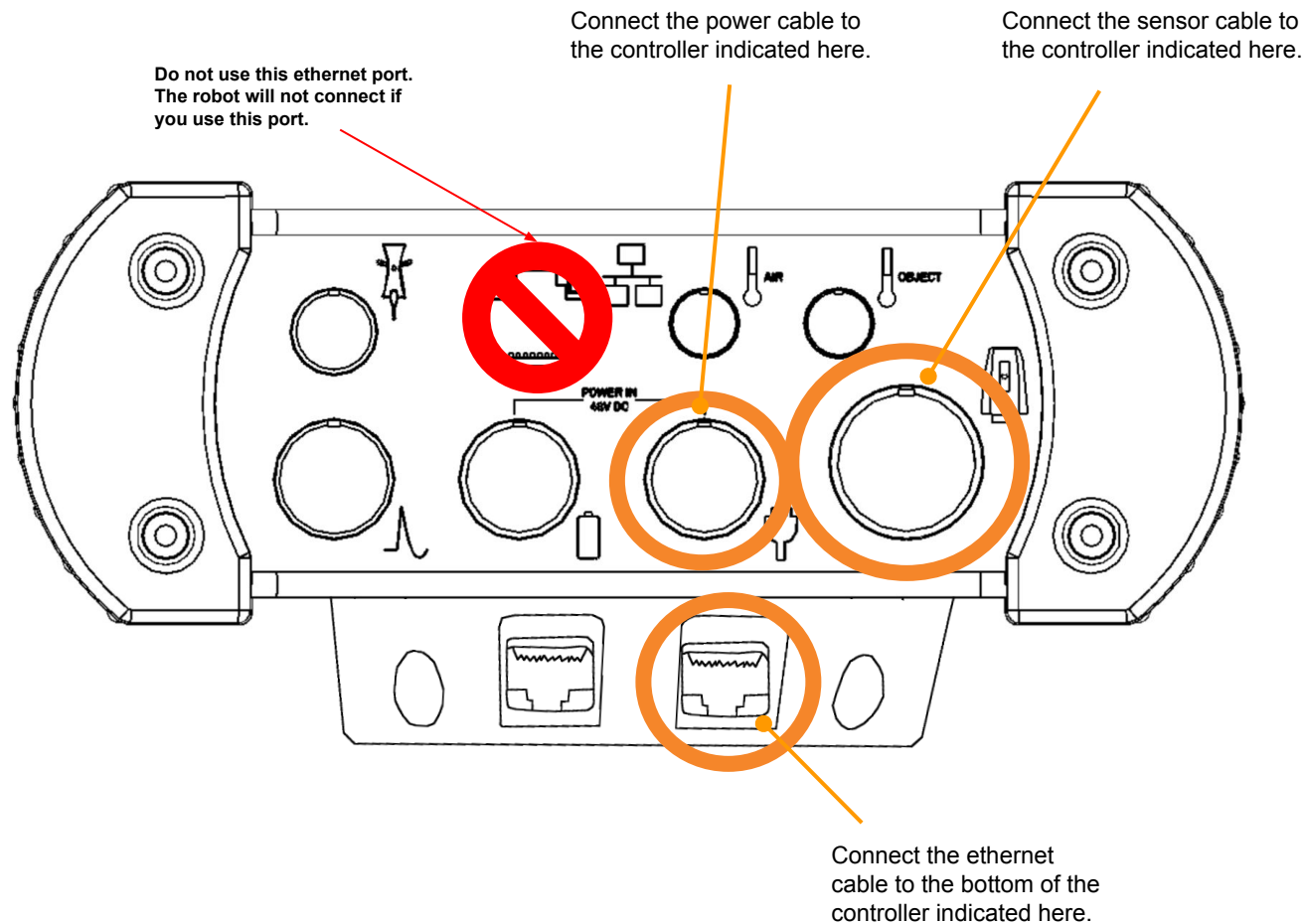
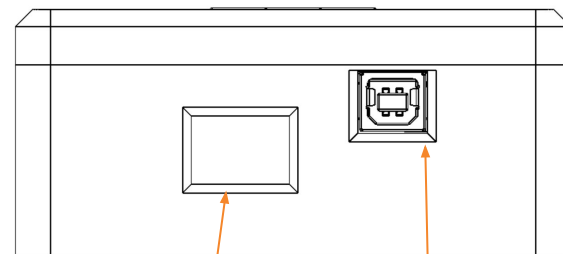
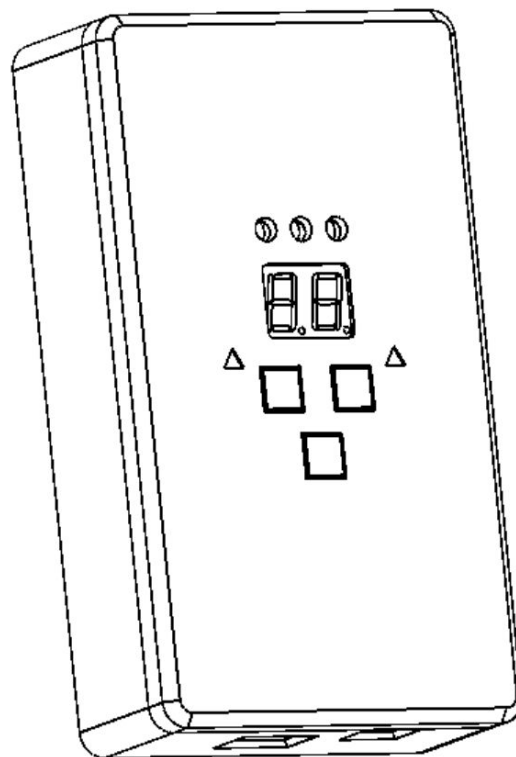


### CONNECT THE WIRES



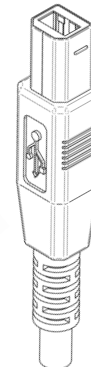
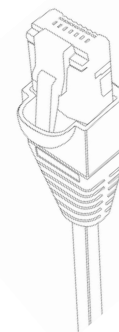
### CONNECT THE WIRES

Connect the attached USB cable and the other end of the ethernet cable to the bottom of the radio box indicated here.



Ethernet cable

USB power cable



To Laser Tracker Controller

To USB on power hub

### CONNECT THE RADIO TO THE CORRECT CHANNEL

The FieldPrinter and radio need to be set to the same channel. See UI Guide on page 40 for instructions.

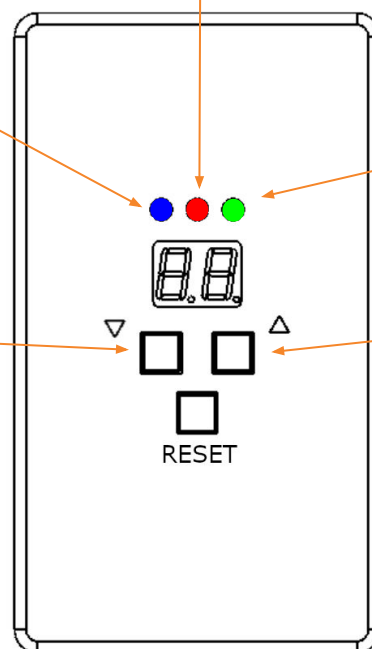
This flashing light indicates the onboard software is correctly loaded.

This light indicates a successful connection between the laser tracker and the radio.

While the robot is connected and the radio is set to the correct channel in the tablet, this light turns green indicating a successful connection to the FieldPrinter.

Decrease the radio channel number.

Increase the radio channel number.



If you experience any issues at this step, connect to the robot in the tablet and manually change the channel to any other number. You may then change the channel on this box to match that newly set channel.

#### Light Indicators:

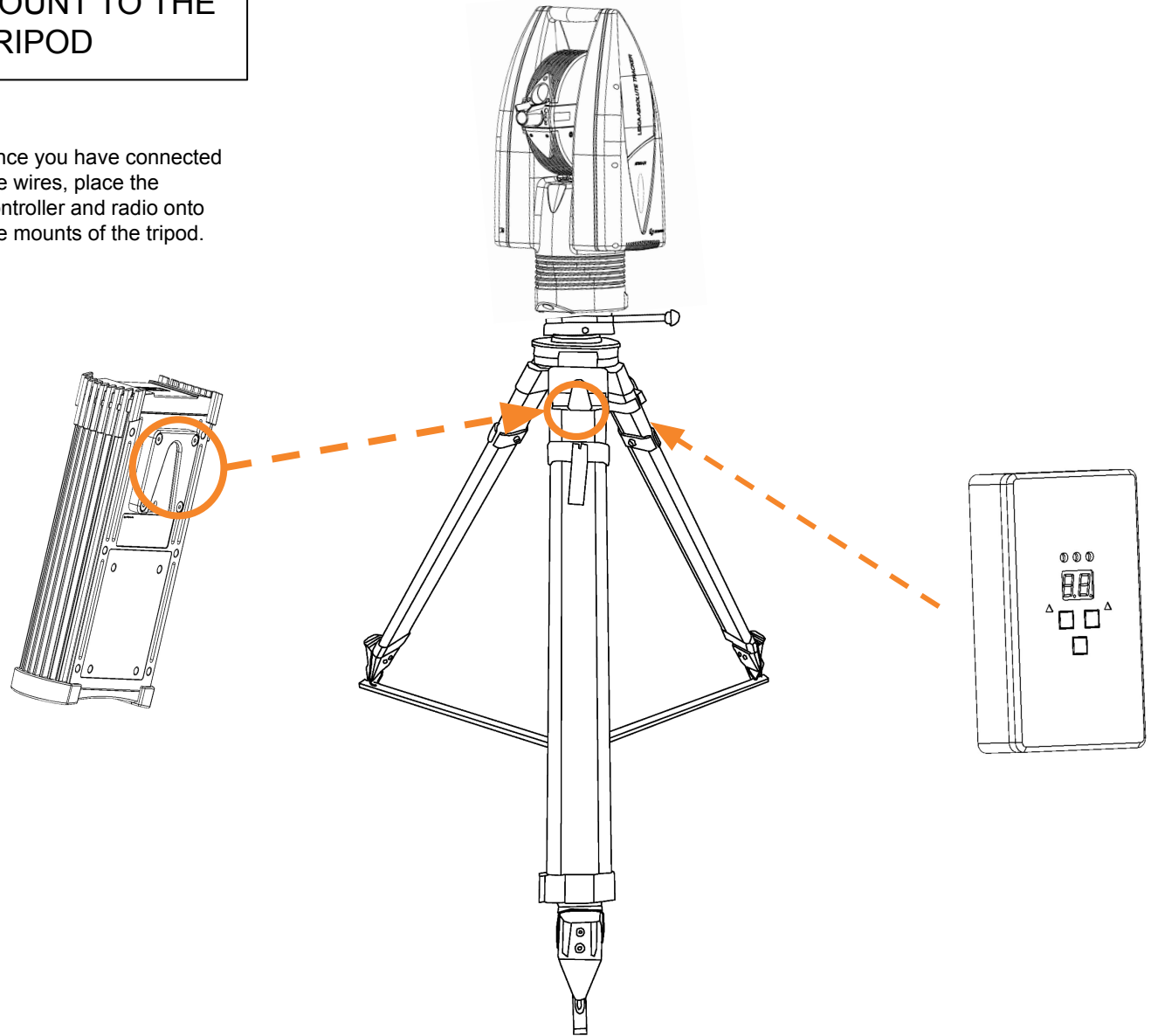
- Red Blinking* — Initializing/Bootup
- Blue Blinking + Red Solid* — On but not connected to FieldPrinter or brief signal reduction (harmless and temporary)
- Blue Blinking + Green Solid* — On and connected to robot

# SETUP

## LASER TRACKER SETUP

### MOUNT TO THE TRIPOD

Once you have connected the wires, place the controller and radio onto the mounts of the tripod.

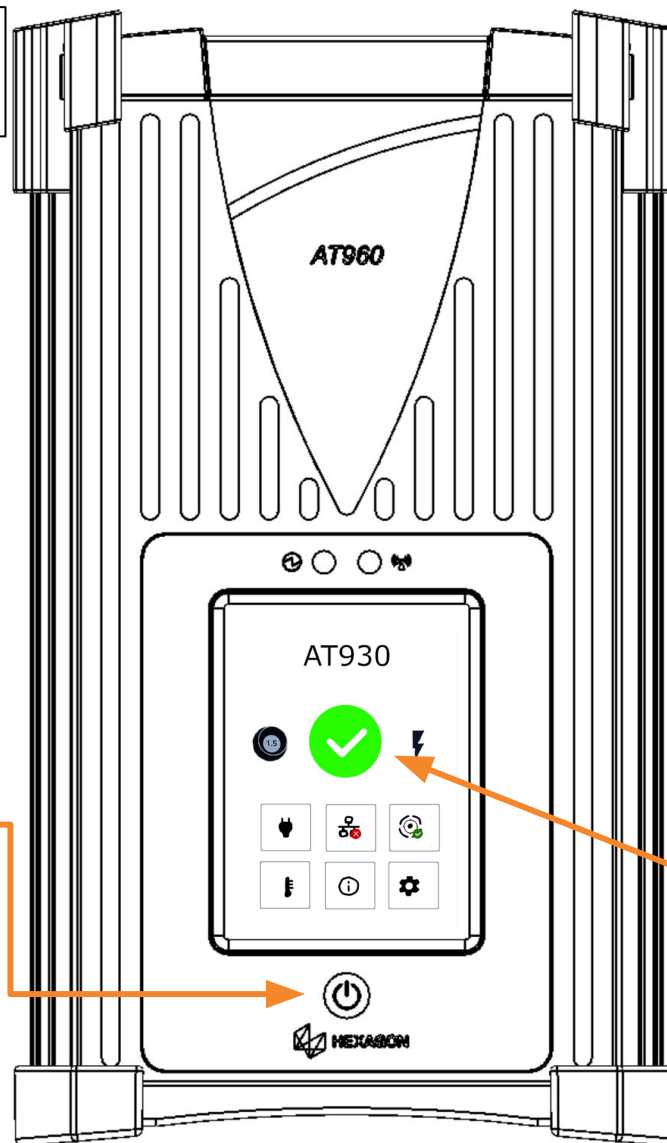


# SETUP

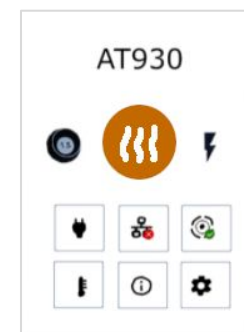
## LASER TRACKER SETUP

POWER THE LASER TRACKER ON

Now that everything is connected and the laser tracker is leveled, power the laser tracker on.



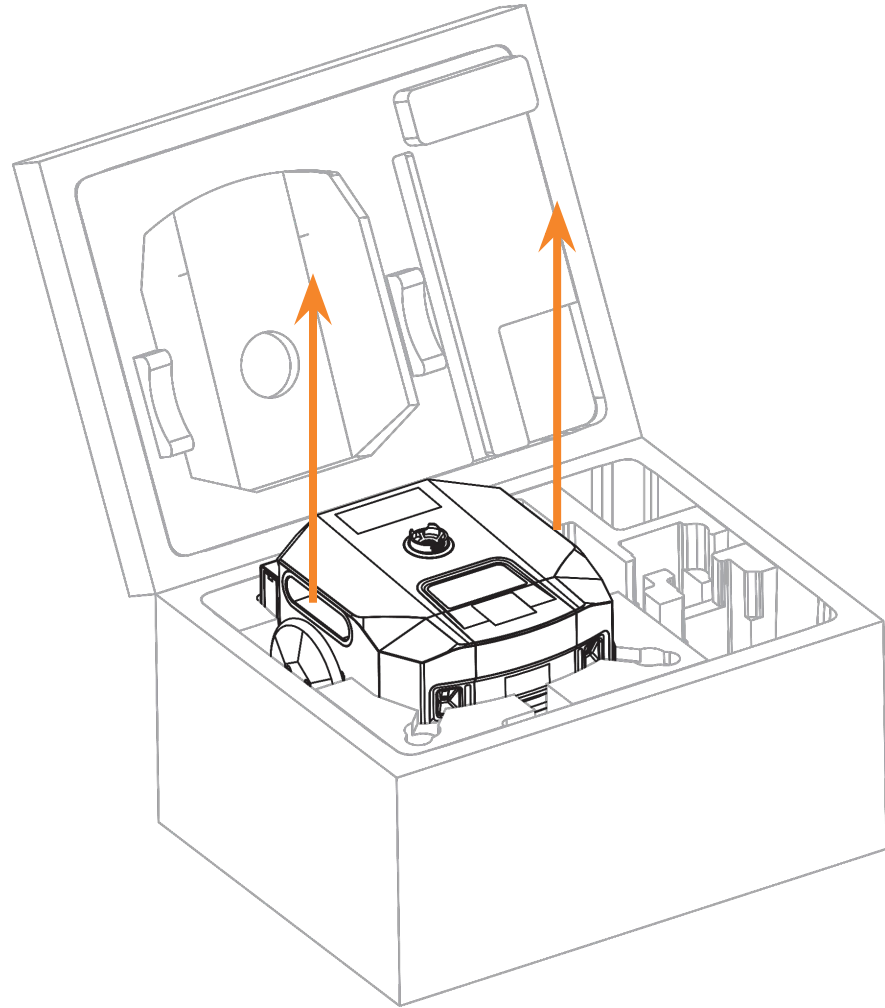
This icon is visible during the warmup process.



The laser tracker takes about 10 minutes to start up. Once ready, the controller will show a green checkmark on the screen.

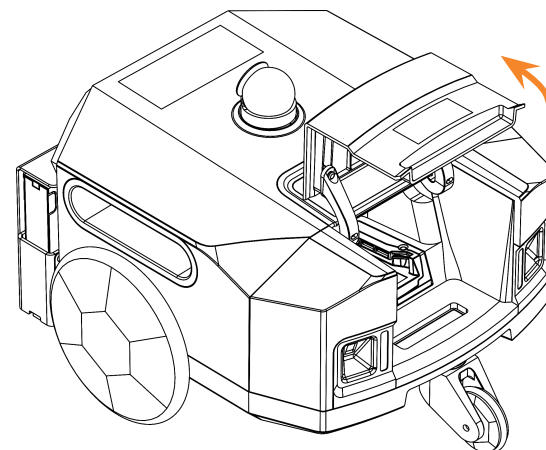
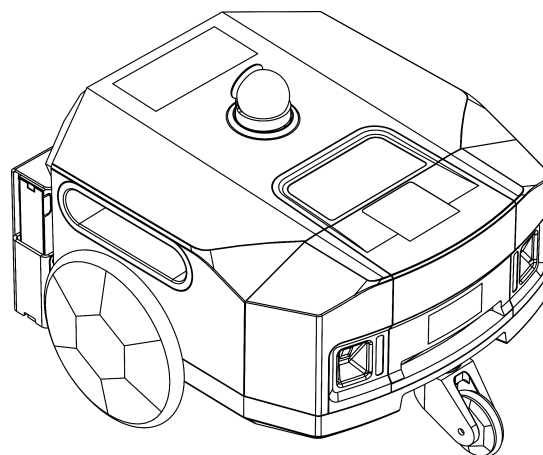
## LIFTING THE PRINTER

Grab the handles and pull up to remove the printer from its carrying case.



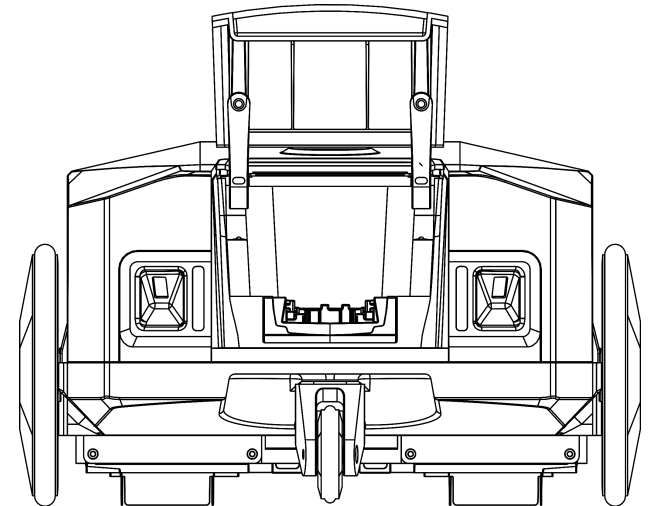
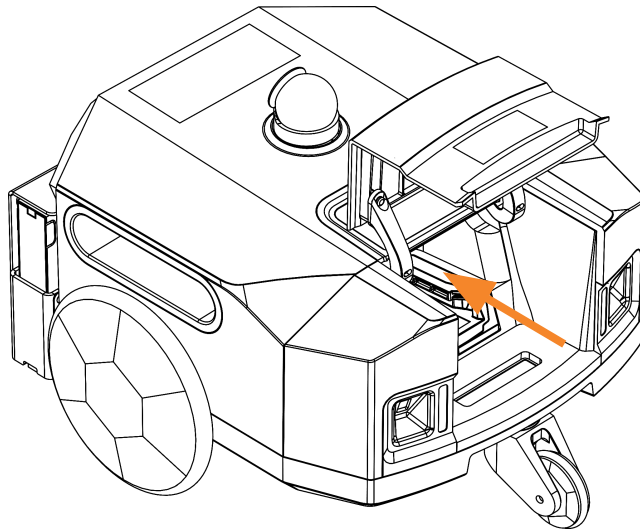
### OPEN THE COVER

The battery compartment is located inside the printer. To access it, raise the cover to open.



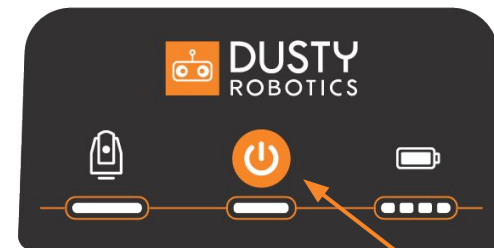
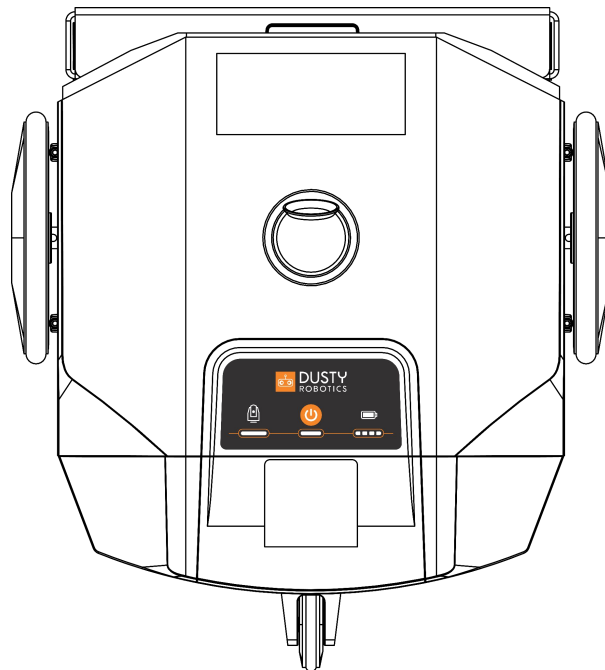
### CONNECTING THE BATTERY

Slide battery into  
compartment with battery  
connection facing down.

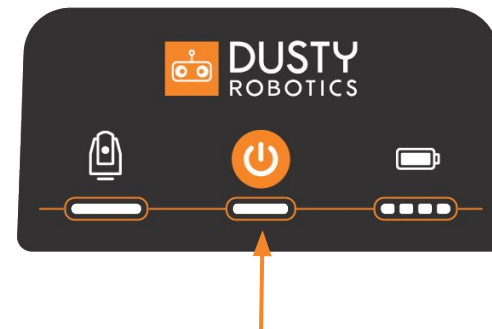


### TURN THE PRINTER ON

Once the battery has been correctly connected, turn the printer on by pressing the power button until the lights blink blue.



The power button is located here.



A blue light here will flash on and off to indicate the on-board computer is powering on.



When powering off, turn the robot off and wait until the blue light stops blinking before disconnecting the battery.

### REFER TO APP GUIDE

Once the laser tracker and the FieldPrinter have been setup, it is time to move to the tablet to setup the Dusty file and station the robot.

Access the Dusty App Guide by scanning the QR code.

Scan QR code to App Guide



Recording the control points on the next page must be done in tandem with the Dusty Controller User guide. **Refer to the last page for more information on how to access more guides.**

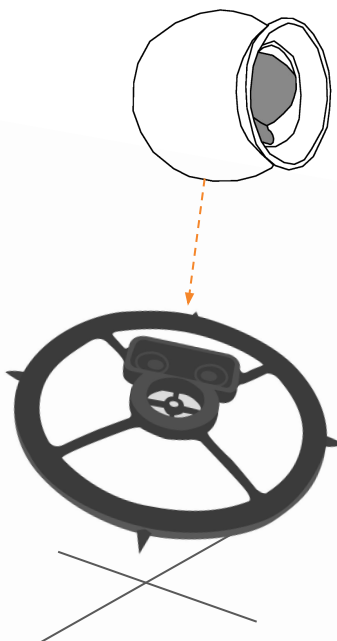
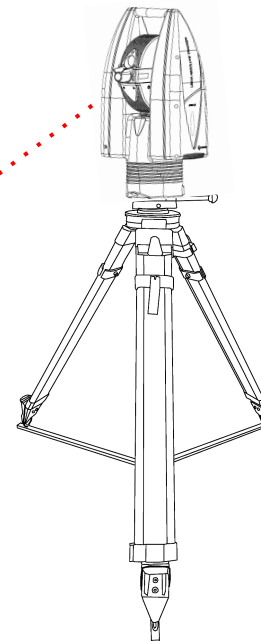
### RECORDING CONTROL POINTS

Set the reflector directly onto the control point and ensure the laser is pointing towards the reflector.

Be wary of reflective surfaces. The laser could lock on to the reflective surface instead of the reflector on the robot.



**Before recording control points into the tablet,** ensure that the laser tracker has an unobstructed view to each of the control points you plan to use.



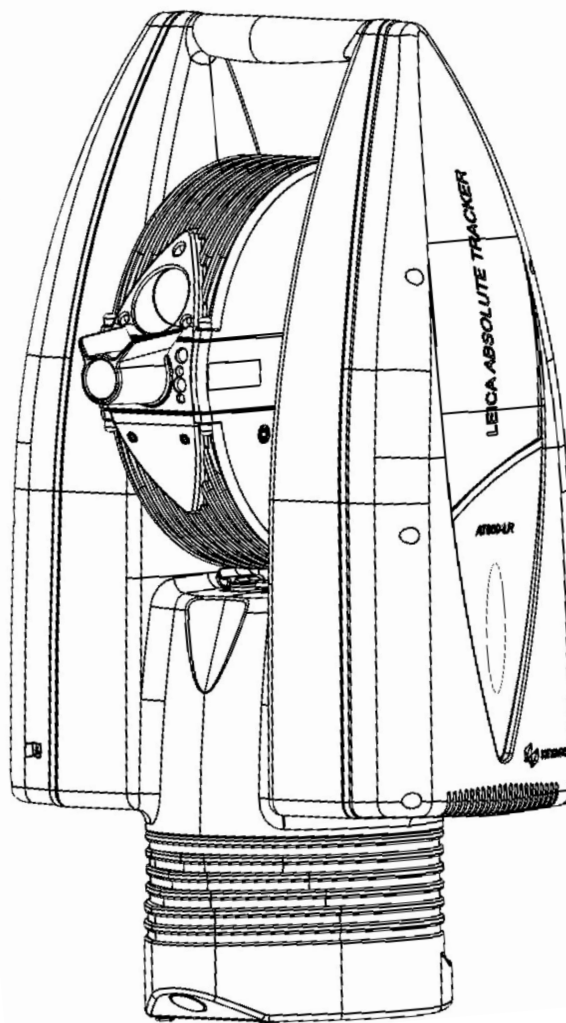
Ensure the center of the control point target is placed in the middle of the actual control point. Accurate target placement improves accuracy of layout.



This laser is a class 2 laser. These products are safe for momentary exposures but can be hazardous for deliberate staring into the beam.

## RECORDING CONTROL POINTS

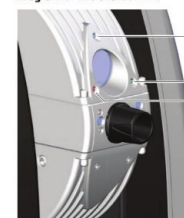
When pointing the laser tracker head towards the reflector, it is okay to **gently** rotate the head with one hand while to manually point it at the reflector or control point.



**Do not move the tripod after it has been stationed.** If the tripod is moved even a fraction of an inch, you will need to restation the control points! Keep a careful eye out to confirm no one bumps into the laser tracker.



Diagram of the Status LEDs



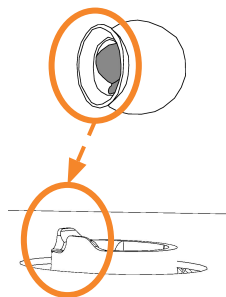
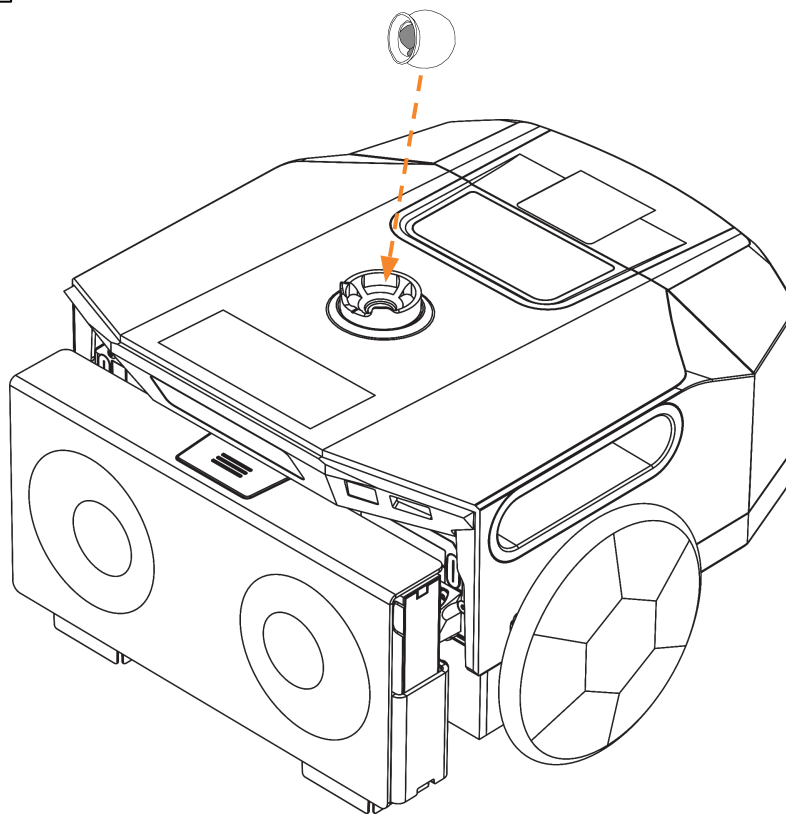
- a) Blue LED
- b) Green LED
- c) Red LED

Description of the Status LEDs

| LED                     | Pattern                                       | Status Information                                                                 |
|-------------------------|-----------------------------------------------|------------------------------------------------------------------------------------|
| Red, Green and Blue LED | off                                           | The AT Controller or the AT930/AT960 instrument are off.                           |
| Red, Green and Blue LED | static                                        | The system is booting up.                                                          |
| Red and Blue LED        | static                                        | The system is ready, no reflector is in the field of view. PowerLock is activated. |
| Red LED                 | static                                        | The system is ready, no reflector is in the field of view. PowerLock is inactive.  |
| Red LED                 | flashing slowly                               | Warm-up in progress. The system is not ready to measure.                           |
| Red LED                 | flashing shortly interrupted by longer breaks | Laser off (stand-by mode)                                                          |
| Red LED                 | flashing                                      | Target is out of range (too close or too far).                                     |
| Green LED               | static                                        | Target locked and stable. Ready to measure.                                        |
| Green LED               | flashing                                      | Measurement is in progress.                                                        |
| Blue LED                | flashing slowly                               | PowerLock is temporarily suspended while laser is pointing.                        |

### RECORDING CONTROL POINTS

Once you have finished recording the control points, move the reflector to the reflector mount on the FieldPrinter.



**Ensure the reflector is seated correctly within the reflector mount.** Once seated in the mount, push the rim of the reflector down between the mount ridges.