



ozobot Bit+ Coding Robot User Guide

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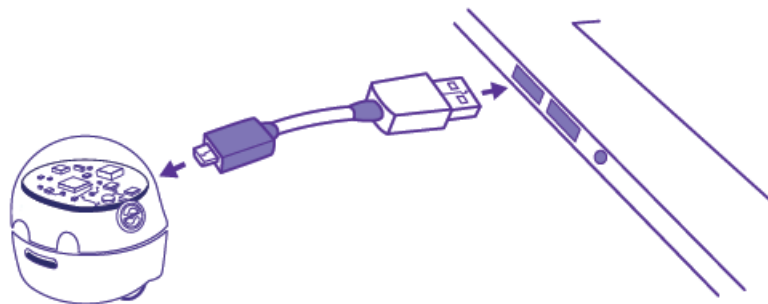


ozobot Bit+ Coding Robot



Connect

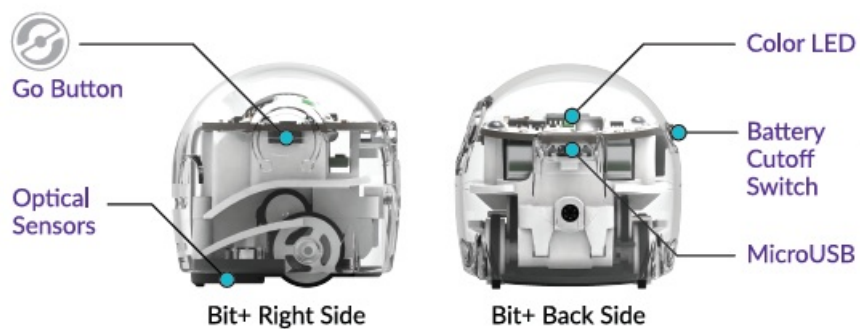
1. Connect Bit+ to a laptop using the USB charging cable.



2. Go to ozo.bot/blockly and click “Get Started”.
3. Check for firmware updates & installation.

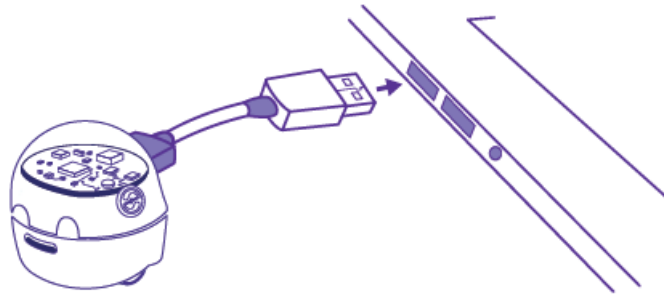
Please note:

Classroom Kits require bots to be plugged in individually and cannot update while in the cradle.



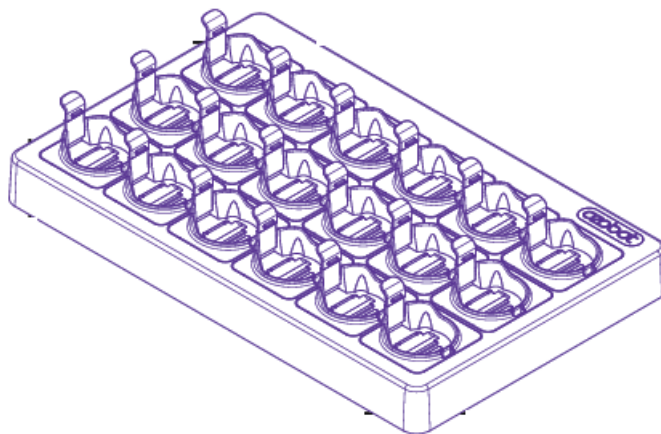
Charge

Charge using the USB cable when Bit+ starts blinking RED.



While charging, Bit+ blinks RED/GREEN on low charge, blinks GREEN on a ready charge, and turns SOLID GREEN on a full charge.

If equipped with a charging cradle, use the included power adapter to plug in and charge Bit+ bots.



Bit+ is compatible with Arduino®. For more information, please visit ozobot.com/arduino.

Calibrate

Always calibrate Bit+ before each use or after changing the learning surface.

Please note:

Make sure the Battery Cutoff Switch is set to the On position.

1. Make sure Bit+ is powered off, then set the bot in the middle of a black circle (about the size of the robot's base). You can create your own black circle using markers.



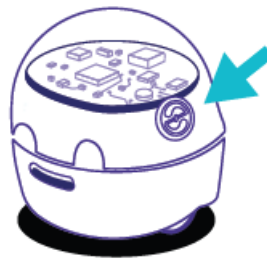
2. Hold down the Go button on Bit+ for 2 sec. until the light blinks white. Then, release the Go button and any contact with the bot.



3. Bit+ will move and blink green. That means it's calibrated! If Bit+ blinks red, start over from step 1.



4. Press the Go button to turn Bit+ back on.



For more information, visit ozobot.com/support/calibration.

Learn



Color Codes

Bit+ can be programmed using Ozobot's Color Code language. Once Bit+ reads a specific Color Code, like Turbo, it will execute that command.

To learn more about Color Codes, visit ozobot.com/create/color-codes.



Ozobot Blackly

Ozobot Blackly lets you take full control of your Bit+ while learning fundamental programming concepts-from basic to advanced. To learn more about Ozobot Blackly, visit ozobot.com/create/ozoblockly.



Ozobot Classroom

Ozobot Classroom offers a variety of lessons and activities for Bit+. To learn more, visit: classroom.ozobot.com.

CARE INSTRUCTIONS

Bit+ is a pocket-sized robot packed with tech. Using it with care will maintain proper function and operational longevity.

Sensor Calibration

For optimal function, sensors need to be calibrated before each use or after changing the playing surface or lighting conditions. To learn more about Bit+'s easy calibration procedure, please see the Calibration page.

Contamination and Liquids

The optical sensing module on the bottom of the device must stay free of dust, dirt, food, and other contaminants. Please ensure that the sensor windows are clean and unobstructed to maintain Bit+'s proper function. Protect Bit+ from exposure to liquids as that may permanently damage its electronic and optical components.

Cleaning the Wheels

The buildup of grease on drive train wheels and shafts may occur after normal use. To maintain proper function and operating speeds, it is recommended to periodically clean the drive train by gently rolling the robot's wheels several times against a sheet of clean white paper or a lint-free cloth.

Please apply this cleaning method also if you observe a noticeable change in Bit+'s movement behavior or other signs of reduced torque.

Do Not Disassemble

Any attempt to disassemble Bit+ and its internal modules may cause irreparable damage to the device and will void any warranties, implied or otherwise.

PLEASE RETAIN THIS FOR FUTURE REFERENCE.

Limited Warranty

Ozobot limited warranty information is available online: www.ozobot.com/legal/warranty.

Battery Warning

To reduce the risk of fire or burns, do not attempt to open, disassemble, or service the battery pack. Do not crush, puncture, short external contacts, expose to temperature above 60°C (140°F), or dispose of in fire or water.

Battery chargers used with the device are to be regularly examined for damage to the cord, plug, enclosure, and other parts, and in the event of such damage, they must not be used until the damage has been repaired. Battery is 3.7V, 70mAh (3.7"0.07=0.2S9Wh). The max operating current is 150mA.

FCC COMPLIANCE STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

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 the receiver.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

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

Ages 6+

CAN ICES-3 (BI / NMB-3 (BI
Product and colors may vary.

www.ozobot.com.

Documents / Resources



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Bit Coding Robot, Bit, Coding Robot, Robot

[Manuals+](#).