



WINGMAN

User Guide



What is Wingman?

Wingman is a data acquisition sensor built to ride along on a variety of vehicles and prototypes. Perfect for testing or verification, it is a single sensor that integrates high-g accelerometer, low-g accelerometer, gyroscope, magnetometer, barometer, and Global Navigation Satellite System (GNSS) into one unit. By centralizing the most commonly used sensors, it reduces the need to worry about multiple sensors being turned on or off each data cycle. Wingman has configurable data rates for each sensor which can be adjusted via the accompanying desktop application. Whether it is for real-world vehicles, packages, or payloads, Wingman is the perfect data collecting companion for your system.

Package Contents

- Wingman
- Wingman Mounting Plate
- Wingman Mounting Screws

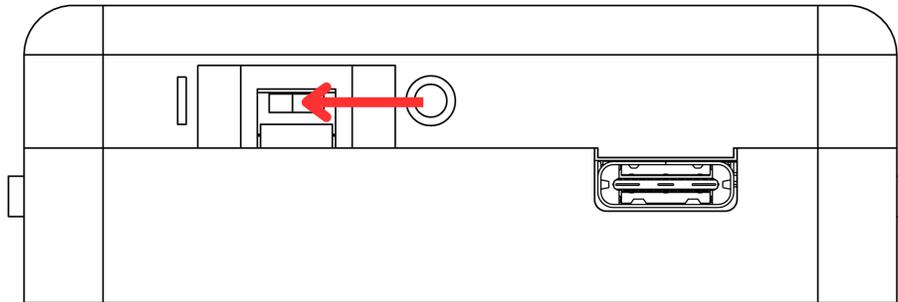
Contact Information

Email: wingman@earthlydynamics.com

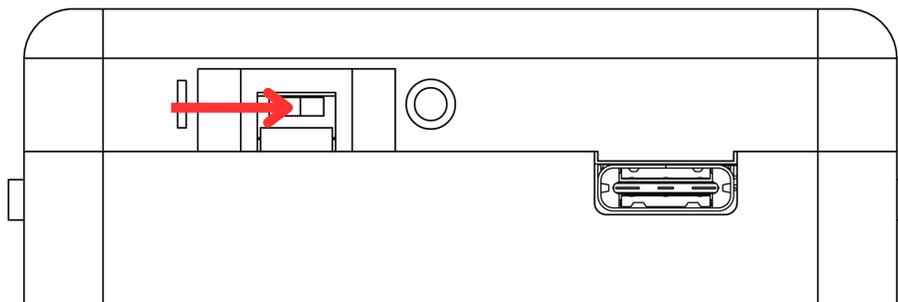
Website: earthlydynamics.com/wingman

Turning On Wingman

To power Wingman **ON**, move the switch to the far **LEFT** position. The lights should turn on.

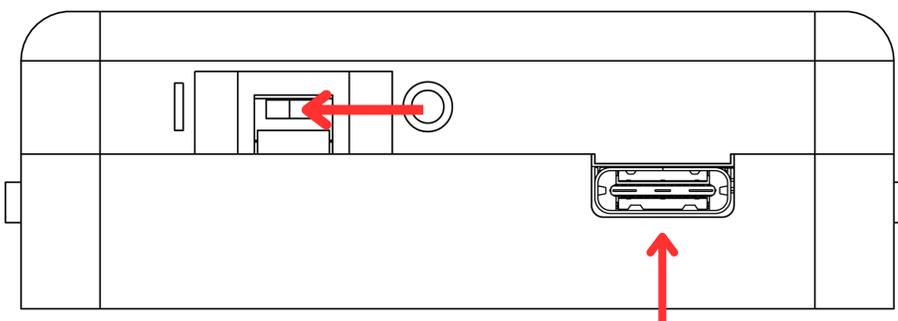


To power Wingman **OFF**, move the switch to the far **RIGHT** position. The lights should turn off completely.



Accessing Data Stored on Wingman

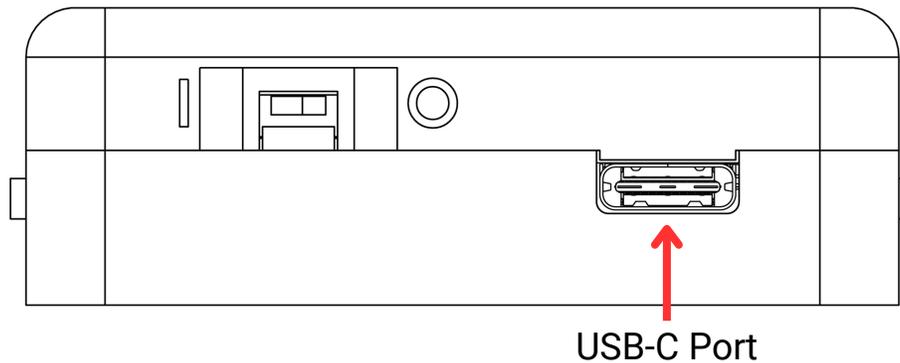
To **PULL LOGS** from Wingman using a computer or laptop, use a **USB-C to USB-A/B/C/micro cord** (not provided). Plug the USB-C connector into the USB port on Wingman, then connect it to a computer or laptop using the USB-A/B/C/micro connector. Power on the Wingman by moving the switch to the **far-right** position.



USB-C Port

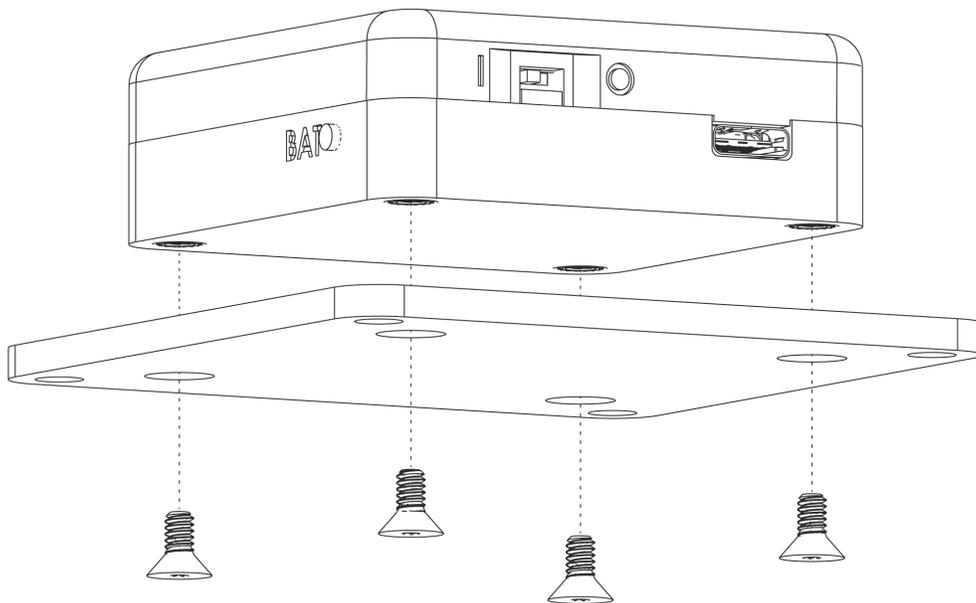
Charging Wingman

To **CHARGE** Wingman, you will need a **USB-C to USB-A/B/C/micro cord** (not provided) and the corresponding **wall charging block**. Plug the USB-C connector into Wingman, attaching the other end of the cord to the wall charging block. Allow the Wingman to charge while turned off until the **solid orange Battery Indicator Light** turns **off**. Wingman should take less than 2 hours to charge, however, turning it on while charging will extend the time it takes to fully charge.

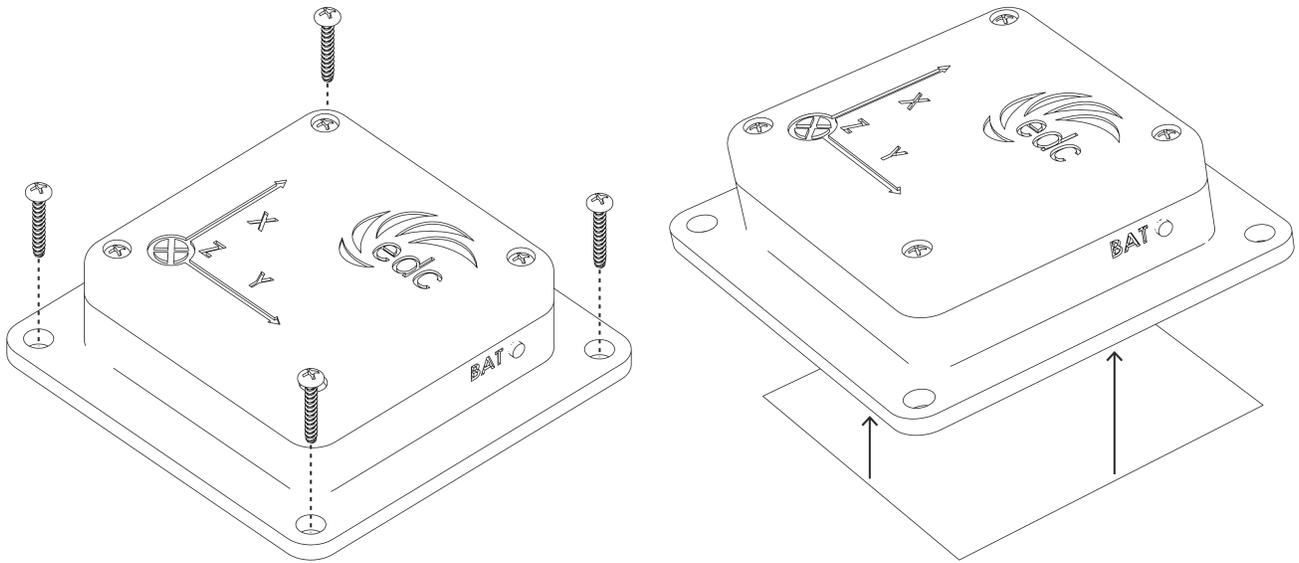


Installing Wingman

To **MOUNT** Wingman, attach the **mounting plate** to the hole pattern found on the bottom of Wingman via **#8 screws**.



The **mounting plate** can then be attached to **any surface** by threading **screws** through the 4 remaining holes or using an **adhesive** of your choice.



Light Indication Meaning

Status Light (Located beside the USB-C Port)

Light Pattern	Meaning
Solid Green	Sensors OK
Blinking Green	Sensors OK + GPS Lock
Blinking Red	Sensor or Logging Error

Battery Light Meaning

(Located beside the Power Switch)

Light Pattern	Meaning
Blinking Green	Good Battery
Blinking Red	Need to Charge
Solid Orange	Charging

Return Policy

If, for any reason, you are not satisfied with your Wingman, you have 30 days from when you receive the product to qualify for a return. Please contact wingman@earthlydynamics.com to start the return process. A refund will be credited to the original form of payment made to purchase Wingman.

Limited Warranty

If your Wingman does not work properly due to a defect in materials or workmanship, you have 1 year from when you receive the product to qualify for replacement. This Limited Warranty does not cover damage due to regular wear and tear or cosmetic damage. Please contact wingman@earthlydynamics.com if you believe your Wingman is defective and we will determine the best solution for the issue.

FCC Compliance Statement

CAUTION: The manufacturer is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

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 receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information

Product Name: Wingman
Product Model: EDC_WM_0001-0001
Manufacturer:
Earthly Dynamics, LLC
1405 Old Alabama Road STE 120
Roswell, GA 30075
wingman@earthlydynamics.com
earthlydynamics.com

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.