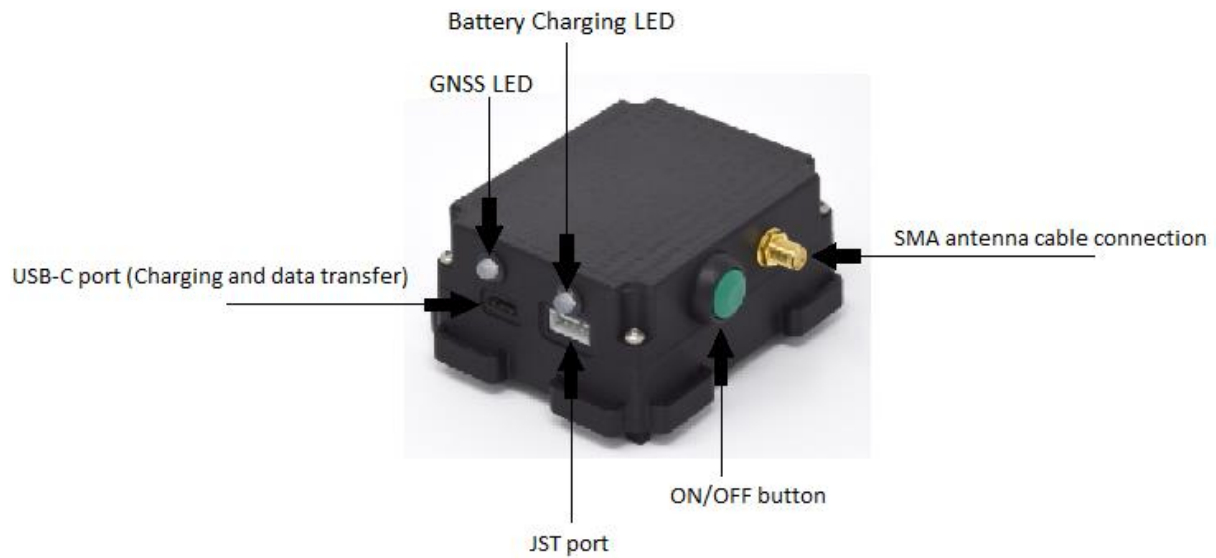


LOKI USERS GUIDE (HOT SHOE)

LOKI HARDWARE COMPONENTS

Loki Controller



Hot shoe cable



Antenna, spacer, ground plane, screws, and SMA antenna cable



Antenna Mount Assembly



USB Cable



LOKI SOFTWARE COMPONENTS

AirGon Sensor Package Software Suite (ASP) Suite

Download AirGon ASP Suite from <http://airgon.net/asp/aspsuite/publish.htm>

Instructions for licensing ASP Suite will arrive in an email delivery.

LOKI INSTALLATION

Mount the Loki controller to the drone using the velcro straps. Orientation is not important, however the antenna needs to be mounted such that the SMA cable can reach from the antenna to the Loki controller. The antenna needs to be installed so that it is even with the drone (navigation) antennas so that none of the antennas are shielded by the other. Also, the hot shoe cable will need to connect from the Loki controller to the camera.

Place the spacer on top of the antenna mount, matching the tab of the spacer with the hole in the mount. Route the female end of the SMA antenna cable up through the antenna mount and spacer. Use a $5/16$ " nut driver to securely install the star-washer and nut, that is attached to the SMA cable, to the top of the spacer. Screw the GNSS antenna onto the female end of the SMA antenna cable until snug against the spacer (**Do not overtighten**).

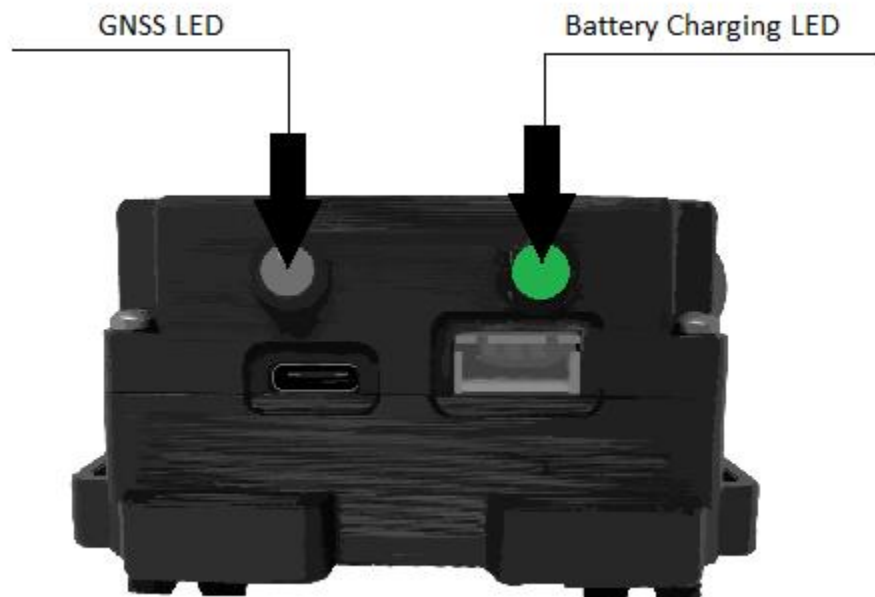
Once the Loki controller and antenna assembly are securely mounted to the drone, connect the male end of the SMA cable to the Loki controller. Connect the hot shoe end of the hot shoe cable into the hot shoe on the camera and the other end into the JST port on the Loki controller.

VERY IMPORTANT

**MAKE SURE THAT ALL CABLES ARE SECURED TO
PREVENT CONTACT WITH PROPS DURING FLIGHT.**

LOKI OPERATING INSTRUCTIONS

The battery automatically charges any time the Loki controller is connected to a computer or USB charger with the USB cable. The LED will flash while charging and change colors, depending on the charge state. The battery charging LED will turn green when the battery is charged to 80 percent or more battery life. It will stop flashing and remain solid green when the LOKI has been fully charged. **Best practice is to charge the Loki completely before the beginning of planned flights.**



When the battery is between 30 and 80 percent, the battery charging LED will turn yellow.



The charging LED will turn red when the battery level is 30 percent or lower. Once the red-light indicator is observed, it is recommended that the battery be charged to preserve longevity of the battery.



Prior to flying the mission, turn on the DJI drone. The GNSS LED will flash blue-green and then go off.



The GNSS LED will reilluminate red and remain that color until sufficient satellites are found.



Once sufficient satellites have been acquired, the GNSS LED will turn solid green. The Loki is now ready to perform the mission.



Once the mission is completed, turn the DJI drone off. The Loki will turn off automatically. To download the data, plug the USB cable into the Loki controller and computer. The GNSS and battery charging LED's will flash blue-green and then go off. The battery charging LED will begin blinking and the GNSS LED will remain off. The Loki will transfer data and charge at the same time.



LOKI EXTERNAL BATTERY

You may use an external battery with the Loki system. Below are instructions for usage and links for purchasing the components that we recommend. If you would like to purchase an external battery kit directly from AirGon, please contact the sales department – sales@airgon.com.

LOKI EXTERNAL BATTERY KIT COMPONENTS AND PURCHASE LINKS

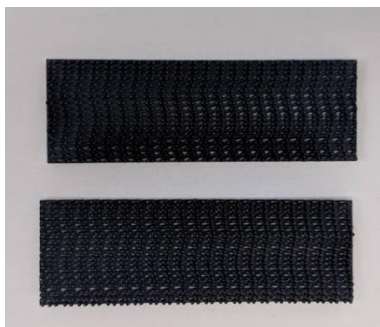
[External Battery](#)



[Connection cable](#)



[3M/Scotch Dual Lock Fasteners](#)



[Alcohol wipes](#)

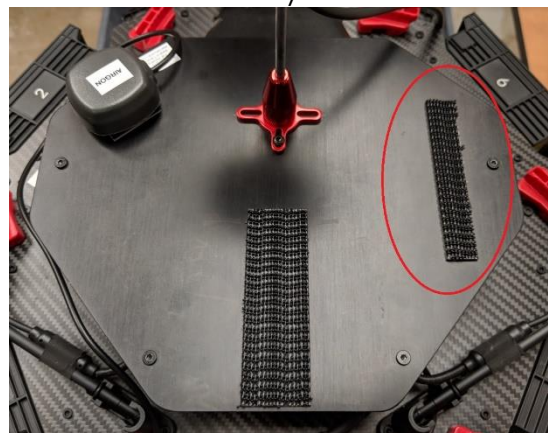


M600 LOKI EXTERNAL VELCRO INSTALLATION AND MOUNTING

External Battery Fastener

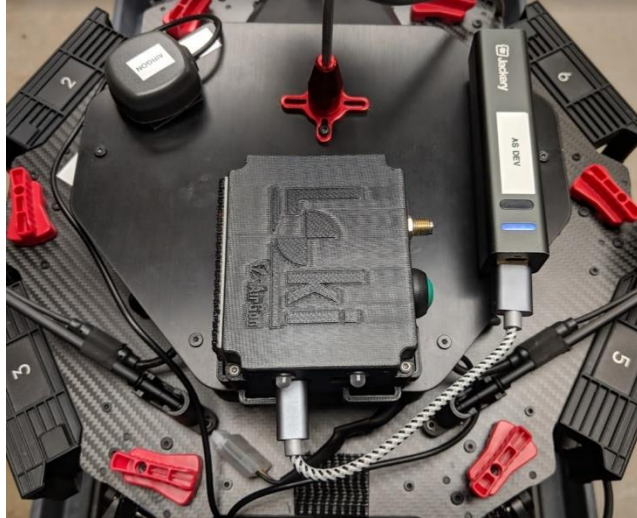


M600 External Battery Fastener Location



Cut provided fastener into strips, wipe off battery and M600 plate with provided alcohol wipes, and ensure the placement of the strips is as shown in the illustrations above. Press and hold fastener firmly onto these surfaces for at least 30 seconds.

M600 Installation



Snap the external battery onto the M600 plate. Connect battery to Loki using the provided USB cable. You can keep the battery plugged into the Loki and use the normal Loki workflow. The battery can be used on Loki's that have been upgraded to firmware 1.5 or newer. Once the external battery has been depleted, Loki will automatically start using the internal battery.

Caution – Make sure that the external battery is mounted in such a way that it does not interfere with the props or antennae. **Placing the external battery incorrectly could cause damage to the drone.**

SUPPORT

Normal support business hours are **Monday - Friday, 8 AM — 5 PM** USA Central Time.

If a support request is sent during business hours a representative will typically get back to you within 4 hours. If received after hours, a response will be sent the following day. To speed response time please include the following information in your request:

- Contact information - please include e-mail address and phone number
- Company name
- Product name and version number

If your request includes problems pertaining to a specific error message, please include a screen shot of the error message.

For hardware and software support contact: support@airgon.com