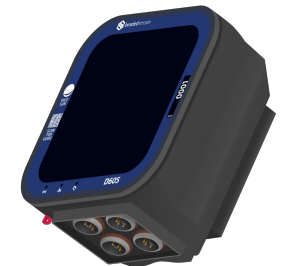
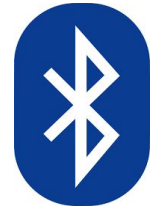




D605 DATA LOGGER INSTALLATION QUICK START GUIDE

Pre-Installation Checklist

- Download the Capture by BeadedStream iOS app ([LINK](#))
 - Make sure that you have the latest version of the app
- Turn on your iOS device's Bluetooth
- Magnet (included on the base of the D605 data logger)
- D605 Data Logger



Logger Installation



Steps

- Do this FIRST before deploying a logger in the field with the Terminal Emulator in the Capture App
- Mount logger above yearly maximum snow and/or water levels
- **Orient logger towards true south** (northern hemisphere) or true north (southern hemisphere)
- No overhead obstructions
- Minimal vertical tilt**

**Tilt will DRASTICALLY REDUCE satellite antenna performance. No tilt means logger bottom ports point straight down. In locations with snow, no tilt is a good balance of direct sun and energy reflected from the snow.



Make sure that the logger is oriented towards true south (northern hemisphere)

Connect the Cable(s)



Steps

- Identify which cable connector you have:
 - Raymo (see image) - no “Stuf” paste needed
 - XLR (see image) - coat with a small amount of “Stuf” paste
- Align the pins on the cable connector and the bulkhead receptacle
- Cable connector is locked into the bulkhead receptacle (push hard, feel and hear a slight click, do a light tug test)
- Cables are secured (zip ties are typically used if conduit isn't present)

Raymo



XLR

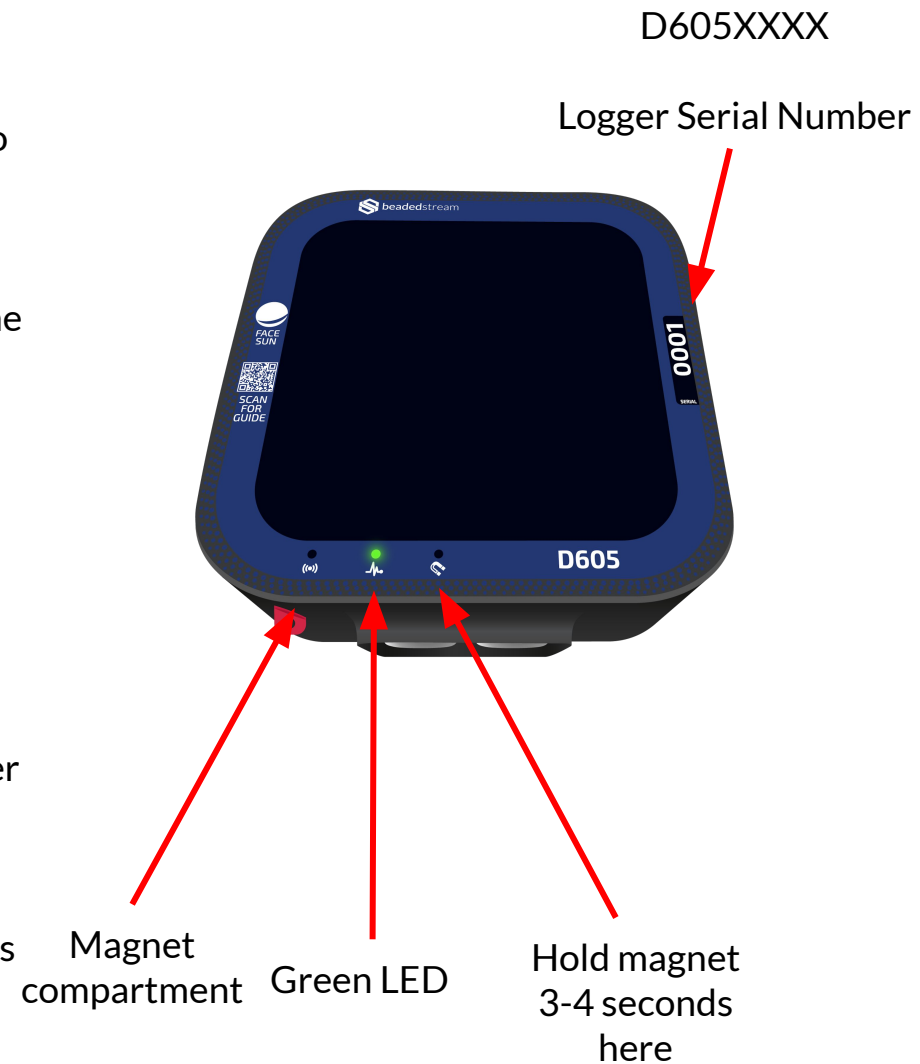


Wake Up From Nap Mode



Steps

- Note: Your data logger is shipped in Nap Mode for 999 days to preserve the battery. It needs to wake up at installation for it to log/transmit.
- By connecting a cable to the data logger (make sure you hear the click!), it will remove the data logger from nap mode.
- You can also remove the logger from nap mode by:
 - Removing the provided magnet from its compartment on the bottom side of the data logger (it slides out)
 - Hold the magnet over the  icon on the face of the logger for 3-4 seconds
- See more information about how to check nap mode later in this document, including how to return to nap mode for storage.

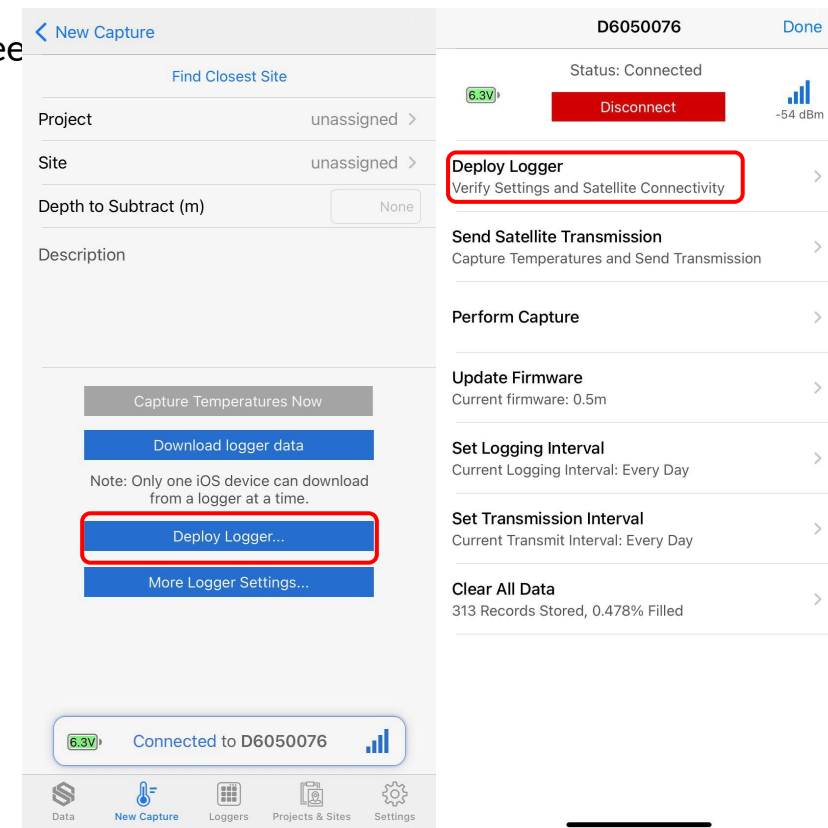


Deploying logger in the field for satellite telemetry

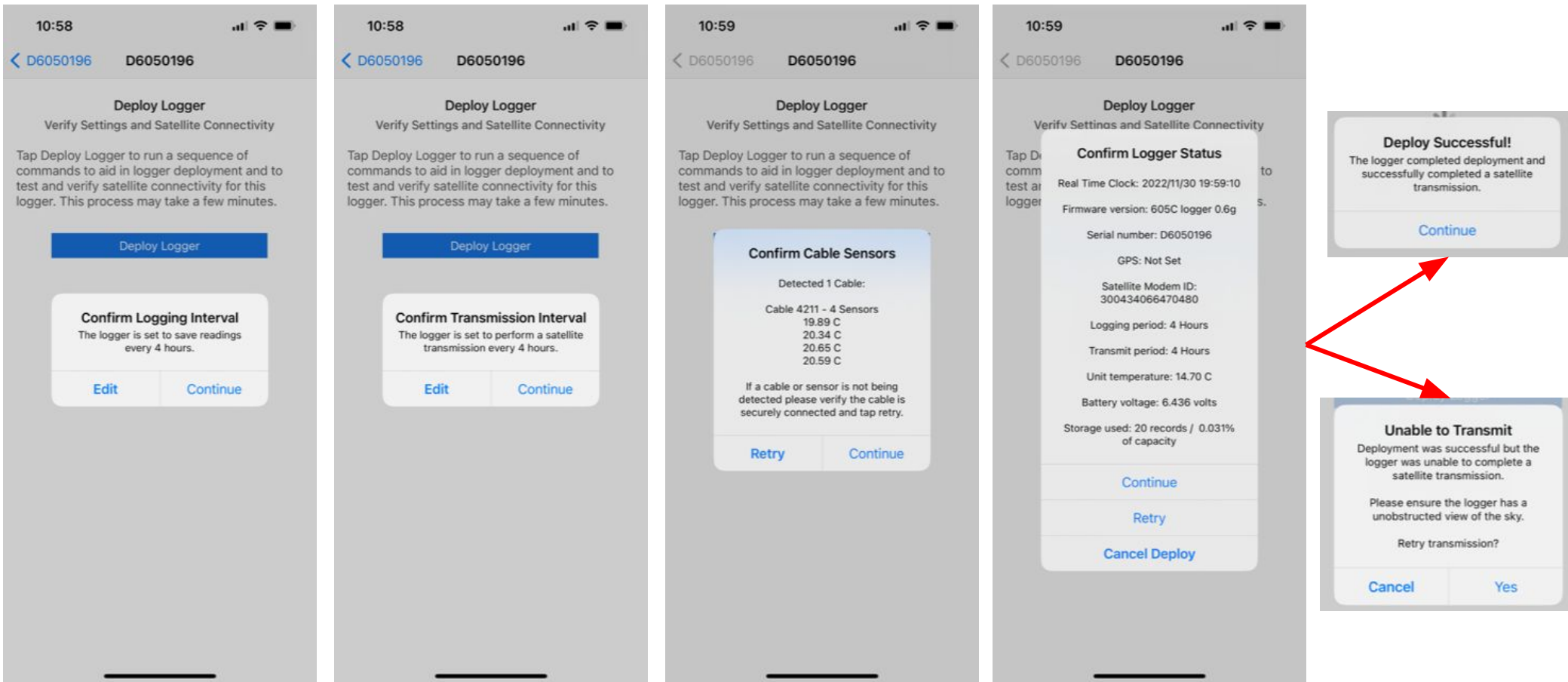
Here's how to make sure that your satellite connection is working properly before leaving the field

Steps

- Open Capture App on iOS device
- Connect to your logger (ex. D605XXXX)
- Swipe magnet (~1 second) to connect to Bluetooth faster
- Select Deploy Logger from either the New Capture or Loggers screen (see images on this slide)
- Run the Deploy Logger sequence
- You will be asked a few questions to verify setup (see images on the next slide)
- When deploy is complete it will return either:
 - Deploy successful - you are setup!
 - Unable to transmit - retry and contact us if you continue to get this result.



Deploying logger in the field (Continued)



10:58 D6050196

Deploy Logger
Verify Settings and Satellite Connectivity

Tap Deploy Logger to run a sequence of commands to aid in logger deployment and to test and verify satellite connectivity for this logger. This process may take a few minutes.

Deploy Logger

Confirm Logging Interval
The logger is set to save readings every 4 hours.

Edit Continue

10:58 D6050196

Deploy Logger
Verify Settings and Satellite Connectivity

Tap Deploy Logger to run a sequence of commands to aid in logger deployment and to test and verify satellite connectivity for this logger. This process may take a few minutes.

Deploy Logger

Confirm Transmission Interval
The logger is set to perform a satellite transmission every 4 hours.

Edit Continue

10:59 D6050196

Deploy Logger
Verify Settings and Satellite Connectivity

Tap Deploy Logger to run a sequence of commands to aid in logger deployment and to test and verify satellite connectivity for this logger. This process may take a few minutes.

Confirm Cable Sensors

Detected 1 Cable:

Cable 4211 - 4 Sensors
19.89 C
20.34 C
20.65 C
20.59 C

If a cable or sensor is not being detected please verify the cable is securely connected and tap retry.

Retry Continue

10:59 D6050196

Deploy Logger
Verify Settings and Satellite Connectivity

Tap Deploy Logger to run a sequence of commands to aid in logger deployment and to test and verify satellite connectivity for this logger. This process may take a few minutes.

Confirm Logger Status

Real Time Clock: 2022/11/30 19:59:10
Firmware version: 605C logger 0.6g
Serial number: D6050196
GPS: Not Set
Satellite Modem ID: 300434066470480
Logging period: 4 Hours
Transmit period: 4 Hours
Unit temperature: 14.70 C
Battery voltage: 6.436 volts
Storage used: 20 records / 0.031% of capacity

Continue
Retry
Cancel Deploy

Deploy Successful!
The logger completed deployment and successfully completed a satellite transmission.

Continue

Unable to Transmit
Deployment was successful but the logger was unable to complete a satellite transmission.
Please ensure the logger has a unobstructed view of the sky.
Retry transmission?

Cancel Yes

Deploy Logger sequence steps
Confirm logging interval, transmission interval, cable sensors and logger status.

Setting up beadedcloud Data Dashboard

Once data transmission has been established, data will transmit to the **beadedcloud** database. You can then follow along with our [tutorial video on Youtube](#) and setup your sites within **beadedcloud** so you can remotely see your data in real-time.

You'll need this information to setup your sites:

- Site name
- Logger number (D6050XXX)
- Cable number (XXXX)
- Latitude / Longitude in decimal units (optional)
- Names and email addresses of people you want to add to view your project on the online dashboard

Once your sites are setup, you can login to app.beadedcloud.com to view your data



beadedcloud



Nap Mode and Long Term Logger Storage



Your logger is shipped in Nap Mode to preserve the battery before it is installed in the field. If you will be storing the logger inside before installation or between projects, please make sure it is in nap mode and check and charge the battery periodically (~3 months) during storage.

Checking or Setting Nap Mode in Capture App

- Select Settings
- Select Terminal Emulator
- Select your logger (ex. D605XXXX)
- Swipe magnet (~1 second) to connect to Bluetooth faster
- Wait ~15 seconds for the black screen to show “>”
- Type “Nap” and press Enter, which will result either “Napping is OFF” or Napping for X days”
- To turn on or increase the number of nap days, type “Nap XXX” and press Enter, where XXX = number days (999 maximum) and it will return “Napping for XXX days”
- To turn off nap mode, type “Nap 0” and press Enter and it will return “Napping is OFF”

< Back

```
> version
605 logger 0.5m
> nap

napping for 999 days

> nap 0

napping is OFF

> nap 100

napping for 100 days

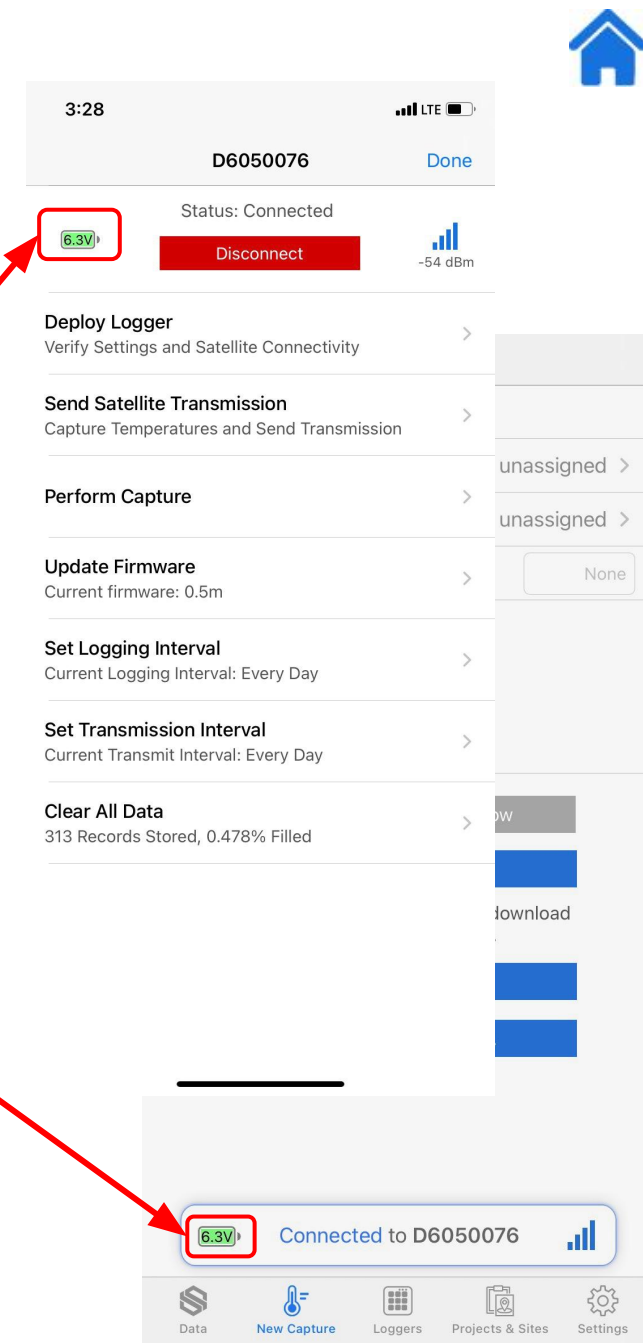
>
```

Checking and Charging the Battery

To charge the battery during storage, face the logger towards the sun by putting it in a south facing window (northern hemisphere). Where possible, store the logger in this window sill so it can recharge as needed and at least five days before deployment.

Checking Battery Voltage in Capture App

- Select Loggers
- Connect to your logger (ex. D605XXXX)
- Swipe magnet (~1 second) to connect to Bluetooth faster
- Battery voltage will show in the top left corner
- While connected to the logger, it will also show in the status bar in any part of Capture app
- If the battery voltage is at or above 6.0 volts, then it is still acceptable. Please charge the battery if it is near 6.0V
- If the battery is below 6.0 volts, please contact our team as you may need a battery replacement





**For more advanced settings,
contact the beadedstream team**