

RIPARIAN SYSTEMS

Sonar Operation & File Transfer Procedure

Field reference for sonar setup and for instructions for sending data files to GAR Data Lab.

Part 1: Sonar Operation Setup

- 1) **Load the mission.**
- 2) **Switch sonars** if the job requires a different unit.
- 3) **If real time viewing of the sonar output is required:**
 - a) **Plug in the adapter.**
 - b) **Connect HDMI to the OUT port.**
 - c) **Connect the other end of the HDMI cable to the adapter.**
 - d) **Power cycle the system.**
- 4) **Turn on the Sonar.**
- 5) **Confirm video** is coming through.
- 6) **Confirm configuration** is correct for the mission. Customer configuration numbers:

Configuration 1 – High

Configuration 2 – Low

NOTE

High frequency scanning is essential for bathymetry, side scan mosaic imaging, and infrastructure inspection.

Low frequency scanning is essential for accurate sediment estimates and hard pan maps.

Run payloads at their proper frequencies simultaneously to reduce operator workload and the need for repeat scans.



Part 2: Pull Files and Send to GAR Data Lab

- 1) **Stop the sonar recording** before powering off the sonar
- 2) **Remove the SD card** while the sonar unit is still on.
- 3) **Insert the SD card into a computer** with an SD card reader.
- 4) **Rename each .DAT file** using the job name, High or Low, and the date (DDMMYYYY).
 - a) Replace the default file name (for example, **DAT File 00009**).
 - b) Keep the **.DAT** extension.

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- 5) **Rename each folder** using job name, High or Low, and the date (DDMMYYYY)
 - a) Replace the default folder name (for example **REC0004**)
 - b) **Make sure the folder name matches** the .DAT file that is associated with the data folder
 - c) Do not rename any of the **.SON** or **.IDX** files inside the folder
- 6) **Send and save.** Email the files to GAR Data Lab at gardatalab@riparian-systems.com with the job's background information, and save a local copy.
 - a) A complete dataset will be a .DAT file with a matching folder with the same name
- 7) **All reports will be returned to the customer within the agreed upon timeframe and emailed from gardatalab@riparian-systems.com**

NOTE

File naming format: [Job] [High/Low] [DDMMYYYY].DAT

Examples:

- **Athens1 Low 23092026.DAT**
- **Athens1 High 23092026.DAT**