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# PAMGuard Plugin User Guide

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Version 1.0



**OCEAN SONICS**  
Giving Our Oceans A Voice

# icListen PAMGuard Plugin Quick Start

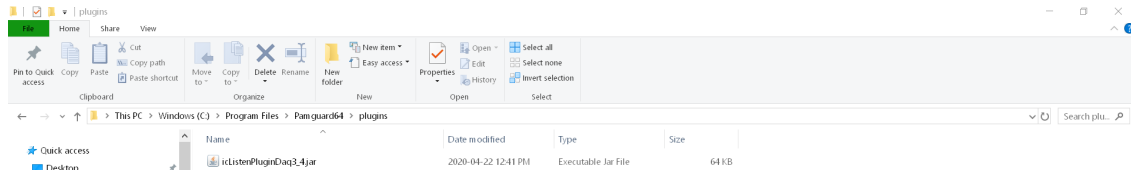
1. Download the icListen PAMGuard plugin **icListenPluginDaq3\_4.jar** for the version of PAMGuard installed on your PC.

**Note-** There are 2 versions.

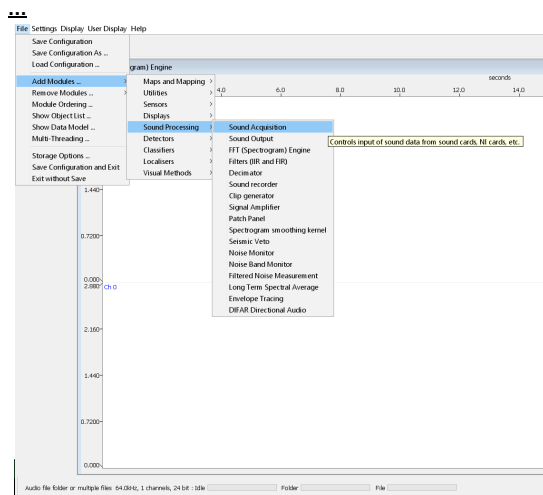
**icListenPluginDaq3\_4.jar** for PAMGuard 1.15.17 (for all previous PAMGuard 1.x versions).

**icListenPluginDaq3\_4Beta.jar** for PAMGuard 2.x.x. the newest version **PAMGuardBeta**.

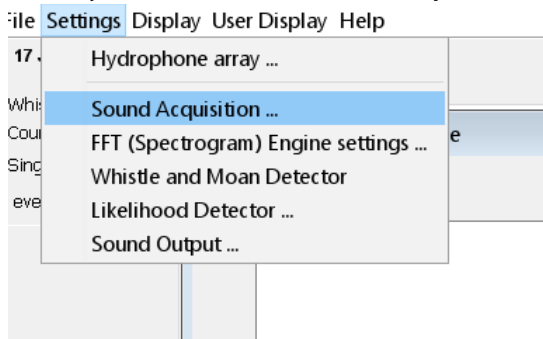
2. Place the .jar file into the plugins folder for PAMGuard on your computer  
[C:\\Program Files\\Pamguard\\plugins] Or  
[C:\\Program Files\\PamguardBeta\\plugins]



3. Open PAMGuard (PAMGuard can be opened by a previously saved .psf file or new file).
4. Add a **Sound Acquisition Module**: **File>Add Module ...> Sound Processing> Sound Acquisition**



5. Select your device from **Sound Acquisition ...** : **Settings > Sound Acquisition ...**



6. Under **Data Source Type** select **icListen DAQ plugin**

Audio Data Acquisition

Data Source Type  
icListen DAQ plugin

Server Settings

Net Address: 172.16.0.107      Connection Timeout: 5000 ms  
Command Port: 50000      waveForm Port: 51678  
wave Form Bandwidth: 400 Hz      Gives a sample rate of: 1000 Hz

No icListen Device connected      connect      disconnect

Sound output Gain

Gain: 15dB

Sampling

Sample Rate: 1000 Hz  
Number of Channels: 1 (hit enter)

Calibration

Peak-Peak voltage range: 6.000 V  
Pre-amplifier gain: 0.0 dB  
 Subtract DC with: 1.0 s time constant

Ok      Cancel      Help ...

- a. Enter IP Address of the hydrophone connected (can be found on **Marco**)
  - b. Choose waveform bandwidth
  - c. Click **Connect**
7. When connected, you will see a successful connection message on the bottom of the PAMGuard window “**icListen DAQ plugin connected to icListen HF ...**”
- a. Click **Ok**
8. Set up the remaining settings for your deployment interests ensuring the sound acquisition is from the icListen plugin

## Notes

- (i) Only one connection can be made to the hydrophone stream. You can not have two streams of the same hydrophone, for example you can not connect to the hydrophone in Lucy and in PAMGuard at the same time.
- (ii) If you are using multiple hydrophones in your deployment, multiple hydrophones can be added to PAMGuard by adding additional sound acquisition modules (one for each hydrophone).
- (iii) With increasing processing in PAMGuard (high sampling rates on multiple hydrophones) this can slow down the computer and cause crashing in PAMGuard.
- (iv) When listening with sound output, adjust gain settings accordingly under Sound Acquisition Settings.