

Overview

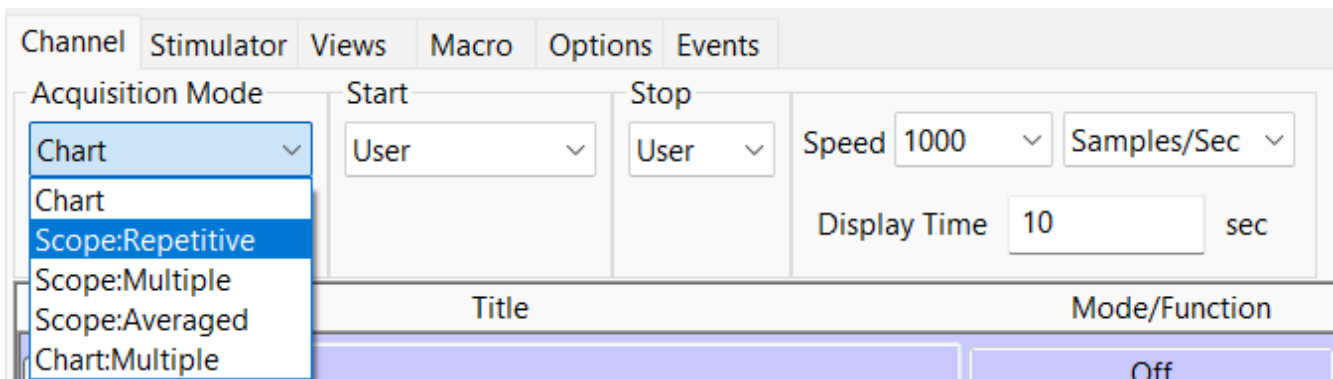
In LabScribe, Scope Mode functions similarly to an oscilloscope by capturing a fast, brief “snapshot” of an event rather than recording continuously.

This mode is ideal for short, repeatable signals such as action potentials and other neurophysiological events. Because these events occur quickly, proper triggering is essential to ensure the snapshot is captured at the correct moment.

Enabling and Configuring Scope Mode

To configure Scope Mode:

- On **Windows**: Go to *Edit* → *Preferences*
- On **Mac**: Go to *LabScribe* → *Preferences*



1. Select an Acquisition Mode

LabScribe offers three Scope acquisition modes:

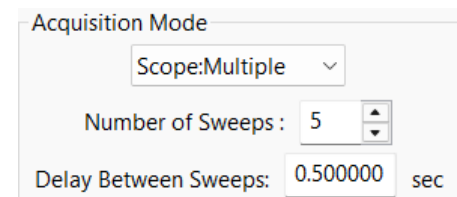
Repetitive Mode

Each new sweep overwrites the previous one during recording. When recording stops, only the final sweep is saved.

Multiple Sweep Mode

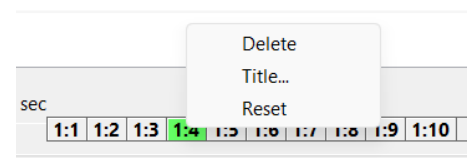
Records and saves a user-defined number of sweeps.

- Set the number in the *Number of Sweeps* box
- Optionally define a *Delay Between Sweeps*
 - A delay of **0** starts the next sweep immediately



Averaged Mode

Records multiple sweeps but displays and saves a single waveform representing the mathematical average of all sweeps.



2. Configure the Start Mode (Trigger)

The Start Mode determines when a sweep begins:

User

Recording begins when the **Record** button is clicked.

Trigger (External TTL)

Recording starts when a TTL signal is received.

- Use *Pretrigger* to capture data occurring just before the trigger event

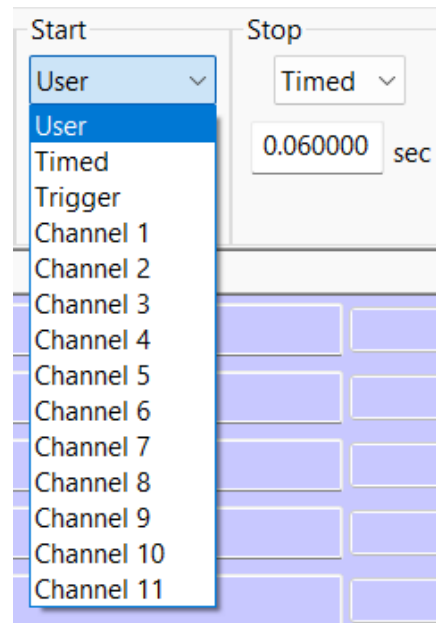
Channel (1–4)

Recording begins when a selected channel crosses defined high/low thresholds.

- Pretriggering is also available

Timed

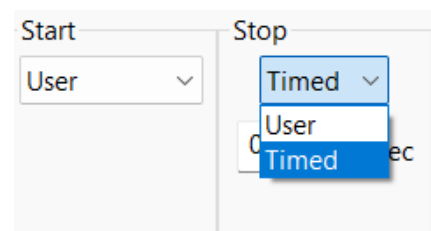
Recording begins after a specified delay (*Wait time*).



3. Set the Sweep Length (Stop Mode)

The sweep length defines how long each snapshot lasts.

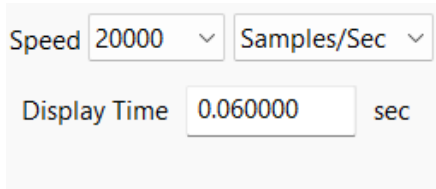
- Set **Stop Mode** = **Timed** and enter the desired duration (seconds)
- or
- Use **User mode** and manually stop the sweep



4. Optimize the Sampling Rate

To accurately capture fast signals without excessive file size:

- Set the sampling rate to **at least 5× faster** than the highest frequency in the waveform



Viewing and Analyzing Scope Data



Main Window Navigation

- Use the **Sweep Selection Bar** to view individual sweeps – highlighted in green
- Navigate with mouse clicks or left/right arrow keys
- Right-click a sweep number to rename or delete it

The Analysis Window

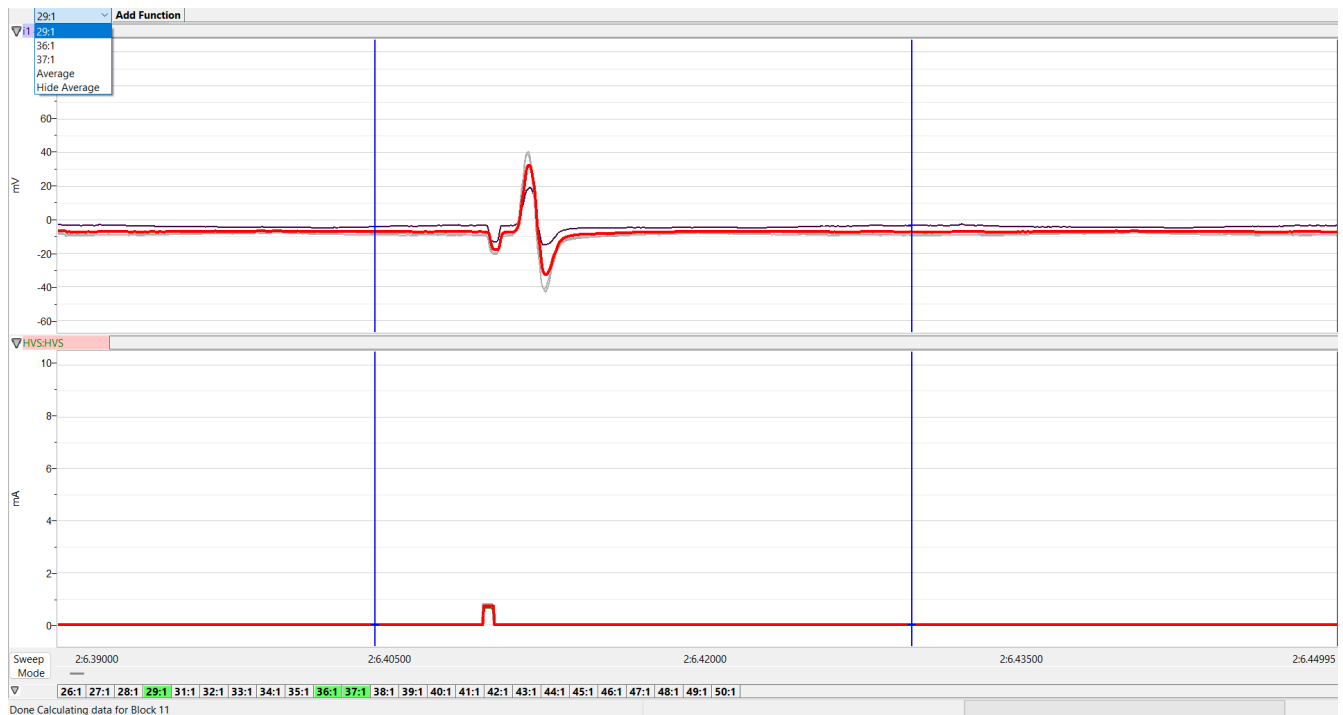


Open the Analysis Window for detailed comparisons:

- Select multiple sweeps using:
 - **CTRL** (Windows)
 - **COMMAND** (Mac)
- Display behavior:
 - Active sweep: **black**
 - Other selected sweeps: **grey**
 - Average of selected sweeps: **red**

TechNote

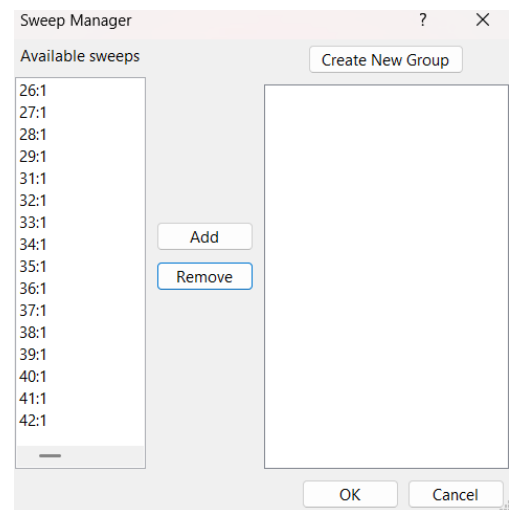
Using Scope Recording Mode



Sweep Manager

In the Analysis Window:

- Click the arrow next to the Sweep Selection Bar to open the **Sweep Manager**
- Organize sweeps into named groups for easier analysis



LabScribe Action Potentials Module Add-On

[LabScribe Action Potentials Module - iWorx Systems, Inc.](#)

Complete List of LabScribe Analysis Module Add-On's

[LabScribe Data Acquisition Software - iWorx Systems, Inc.](#)