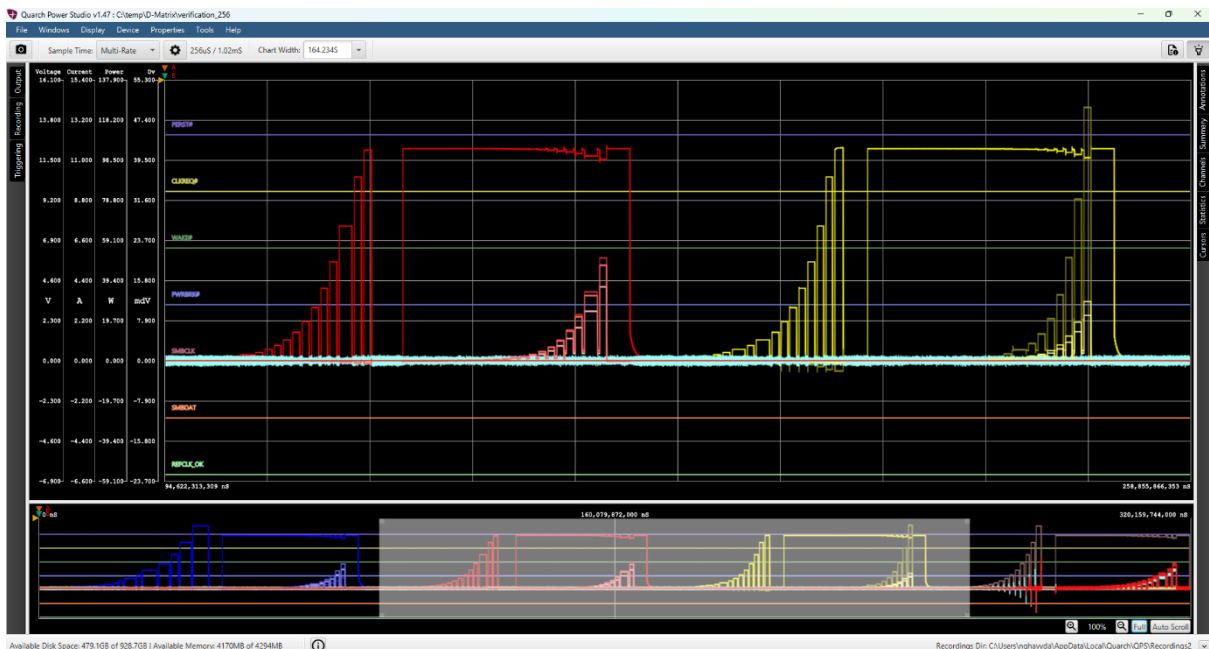


# Quarch Technology Ltd

## Quarch Power Studio

### Quickstart



## Change History

1.0	05/10/2018	Initial Release
1.1	02/09/2021	Updated for 1.17 release
1.2	24/06/2022	Updated for 1.26 release
1.3	25/07/2025	Updated for 1.47 release

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## Before You Begin: What You'll Need

To get started, make sure you have the following items ready.

### **Quarch Power Module**

A Power Analysis Module (PAM), HD Programmable Power Module (PPM), or XLC device.



### **Connection Cables**

The correct USB or LAN cable for your module.



### **Device Fixture**

The appropriate fixture to connect your component (e.g., graphics card, SSD) to the power module.



### **QPS Software**

[Download](#) the latest version from the Quarch website. Java is now bundled with the software.



## Installation & First Launch

### Standard Installation (GUI)

For most users, we recommend the graphical installer.

#### 1 Download & Run the Installer

Get the correct installer for your OS from the Quarch website and follow the on-screen instructions.

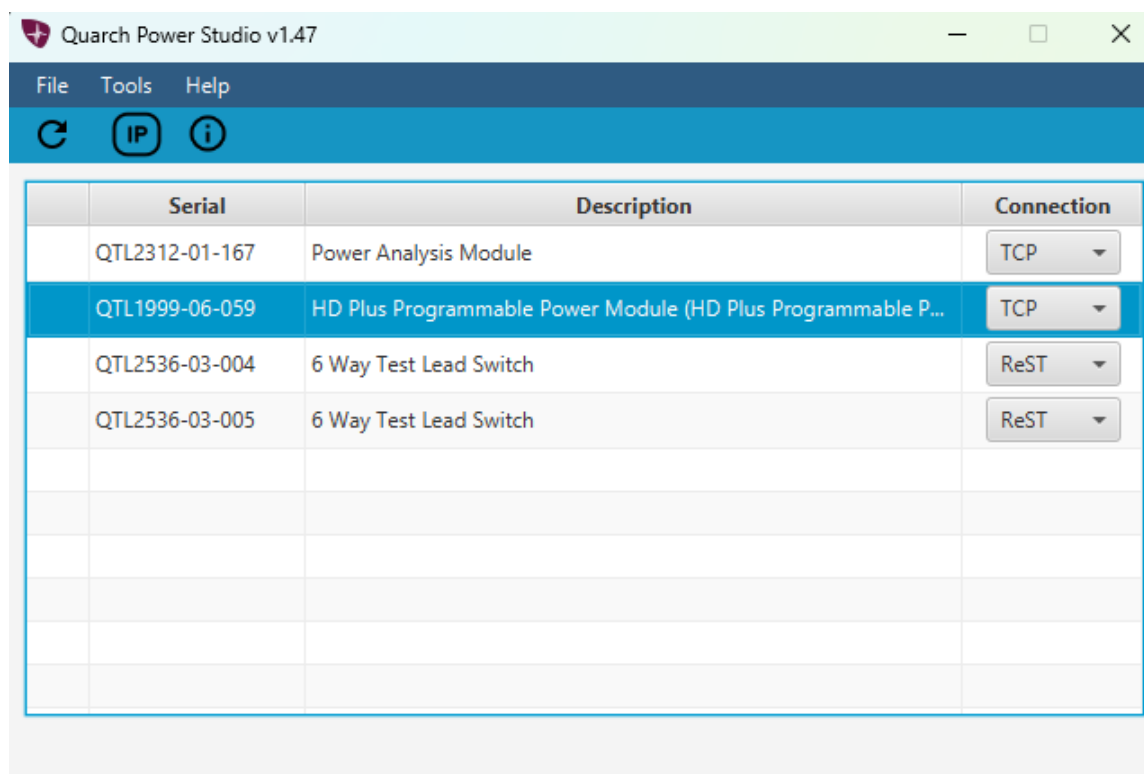





#### 2 Launch QPS

Once installed, open the application from your desktop shortcut or applications folder.

#### 3 Connect Your Module

The software will automatically detect your Quarch module. Double-click the device from the list to connect.



Quarch Power Studio v1.47			
File Tools Help			
  			
Serial	Description	Connection	
QTL2312-01-167	Power Analysis Module	TCP	
QTL1999-06-059	HD Plus Programmable Power Module (HD Plus Programmable P...	TCP	
QTL2536-03-004	6 Way Test Lead Switch	ReST	
QTL2536-03-005	6 Way Test Lead Switch	ReST	

## **Alternative for Python Users (CLI)**

**If you prefer using the command-line, you can run QPS via our Python package.**

### **1 📄 Install the Package**

**Install the quarchpy package using pip in your terminal.**

**pip install quarchpy**

### **2 >\_ Run from Command-Line**

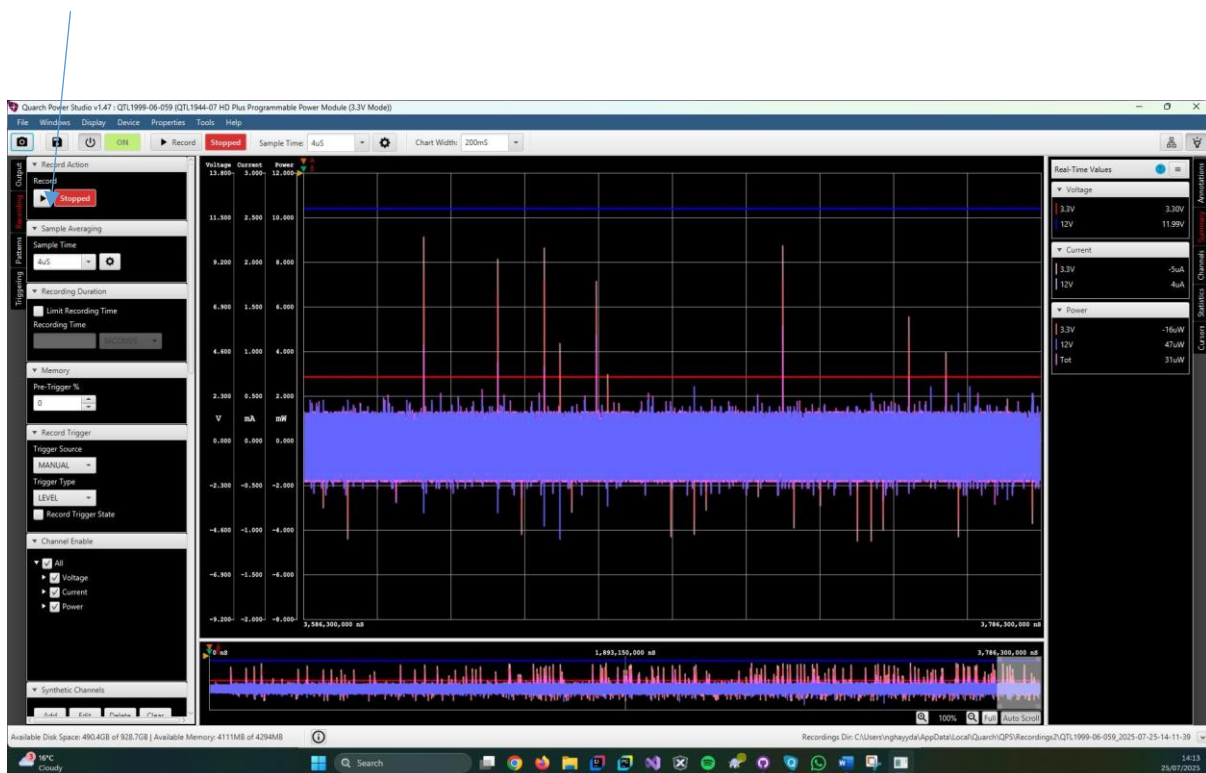
**Launch the QPS application directly from your terminal.**

**python -m quarchpy.run qps**

## Understanding the Main Screen

The interface is designed for efficient analysis. Here are the key areas:

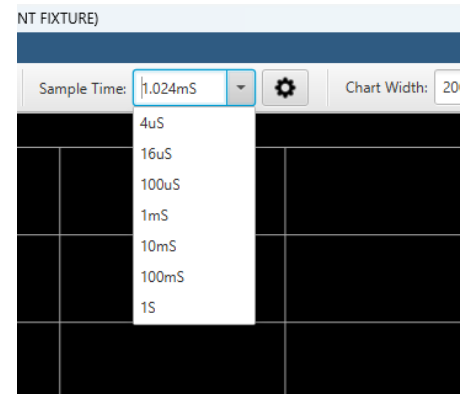
- **Data View (Main Window):** Your detailed, zoomed-in view of the power trace.
- **Timeline (Bottom Window):** An overview of the *entire* recording, perfect for navigating large files.
- **Viewing Tabs (Right Side):** Controls what you see. The most important for starting are **Channels** (to hide/show signals) and **Summary** (to see live values).
- **Control Tabs (Left Side):** Contains controls for your streaming device and QPS stream in general.



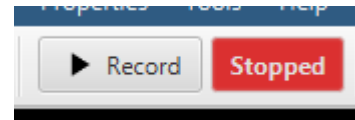
## Your First Power Measurement (Live Mode)

Follow these steps to capture live data from your device:

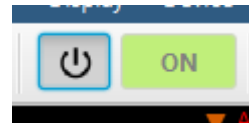
1. **Set the Sample Time:** On the toolbar, find the **Sample Time** control. This sets your measurement resolution. A good starting point is 1ms.



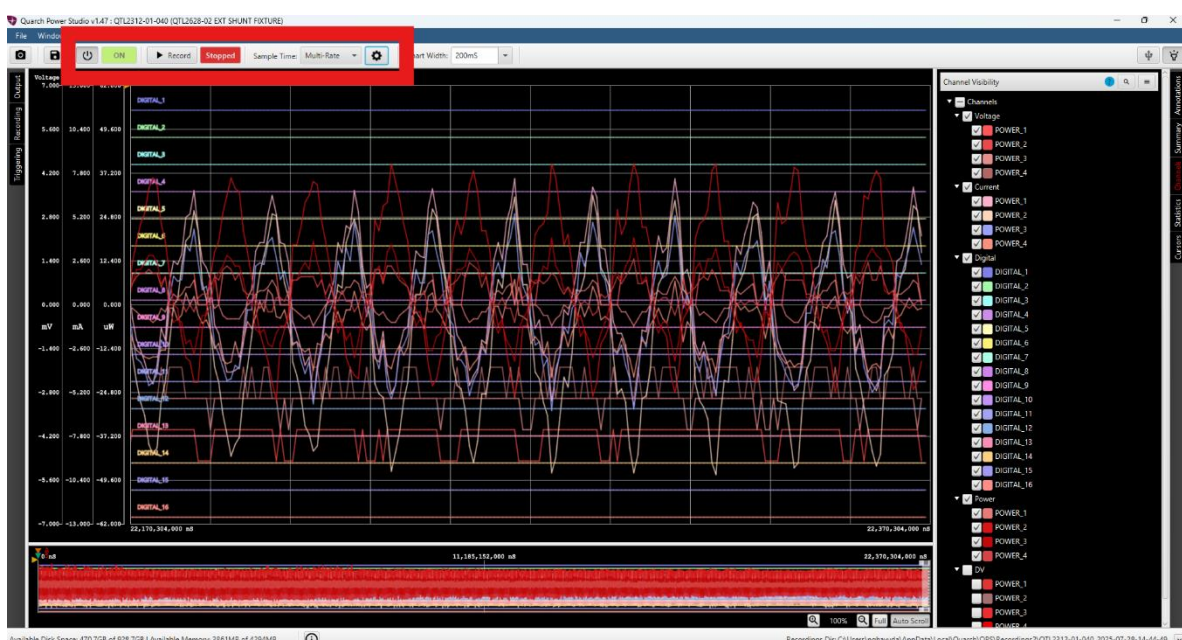
2. **Start the Stream:** Click the **Record** button to begin collecting data.



3. **Power On the Device:** Click the **Power On** button on the toolbar to supply power to your device. You will see the power trace react immediately in the Data View.



4. **Stop Recording:** Once you've captured the event (e.g., power-up, idle state), click the **Stop Recording** button.

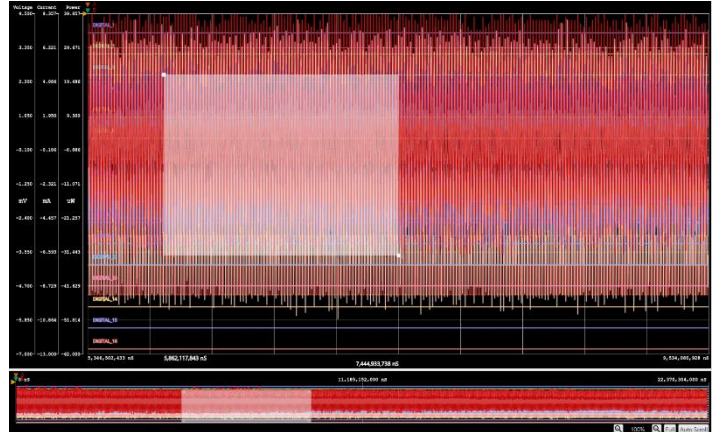




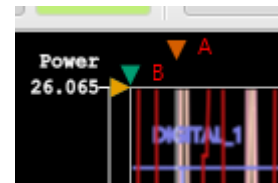
## Analyzing Your Trace

Now that you have data, you can start analyzing it:

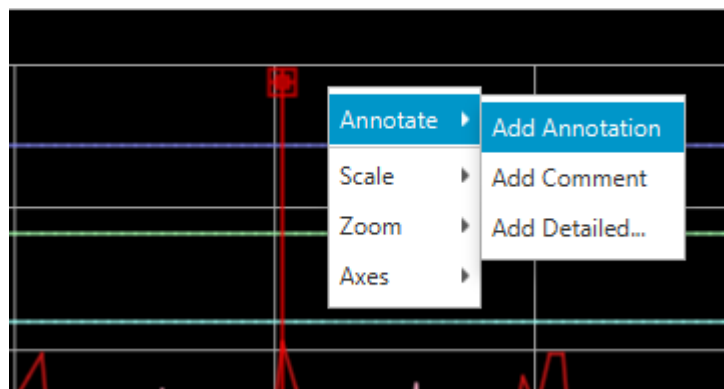
- **Zoom In:** Click and drag a box with your mouse on either the **Data View** or the **Timeline** to zoom in on an area of interest.



- **Measure with Cursors:** From the top-left of the chart area, drag the vertical and horizontal markers onto the trace to take precise measurements. You can read the values from the axes or the **Cursors** tab.

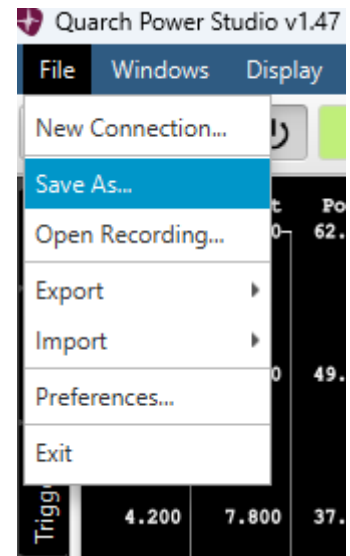


- **Add Notes:** Right-click on the chart and select "**Add Annotation...**" to mark important events directly on the trace.

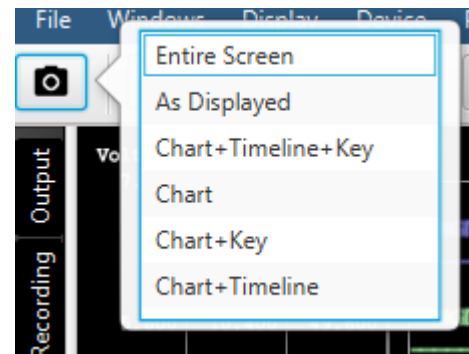


## Saving & Exporting Your Work

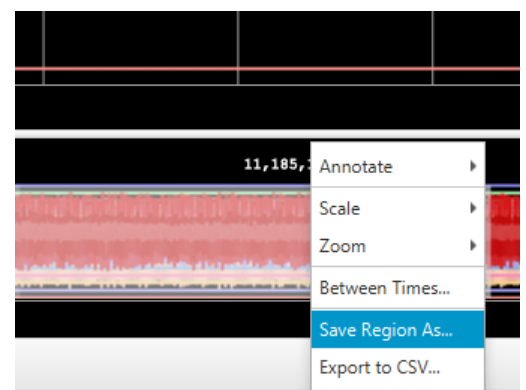
- **Save the Trace:** By default, your recording is temporary. To keep it, click the **Save As** button on the toolbar.



- **Export an Image:** Use the **Save Snapshot** (camera icon) on the toolbar to export a PNG or JPG of your chart for reports.



- **Export a Section:** To share a small part of a large trace, select a region on the timeline, right-click, and choose **Save Region As...**



## Where to Go for More Information

- **Full Manual:** For advanced features like triggering and automation, refer to the **Quarch Power Studio Technical Manual**.
- **Help Menu:** The in-app **Help -> Documentation** menu gives you direct access to the latest manuals.
- **Direct Support:** Contact us at [support@quarch.com](mailto:support@quarch.com).