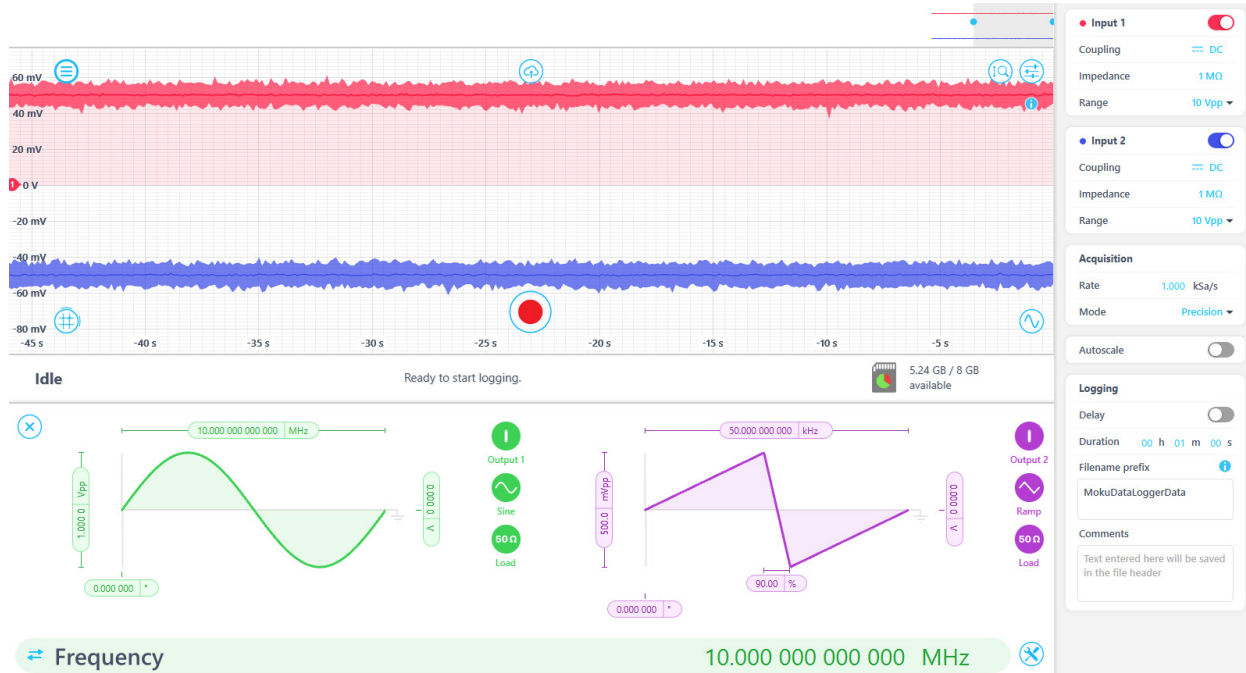Moku:Lab Instrument Datasheet

Data Logger

The Moku:Lab Data Logger lets you log data directly to an SD card for long-term measurements at rates of up to 250 kSa/s, where the duration is limited only by the capacity of the SD card. Data saved to Moku:Lab can be uploaded to the cloud for analysis once the measurement is complete.

Number of inputs	Acquisition rate	Input range	Input coupling	Input impedance	Waveform generator
2	**Up to 250 kSa/s**	**- 5 V to 5 V**	**AC or DC**	**50 Ω / 1 MΩ**	**Integrated**

Features

- Log voltage data on two independent channels to an SD card for long-term measurements
- Built-in two-channel 250 MHz waveform generators
- Easily export data to a computer, Dropbox, email, iCloud, or the iPad "My Files" folder
- Schedule a log to start after a delay of up to 10 days
- Stream data directly to your computer using Moku APIs, including Python, MATLAB, and LabVIEW

Specifications

- Input range: 1 Vpp or 10 Vpp
- Input impedance: 50 Ω or 1 MΩ
- Input coupling: AC/DC
- Maximum sampling rate to SD card:
  - One channel: 250 kSa/s
  - Two channel: 125 kSa/s
- Minimum sampling rate: 10 Sa/s
- Acquisition mode:
  - Normal: Direct digitization at the acquisition rate
  - Precision mode: Downsampling from 500 MSa/s by averaging

Applications

- Environment monitoring
- Sensor logging
- Temperature monitoring
- Vibration analysis