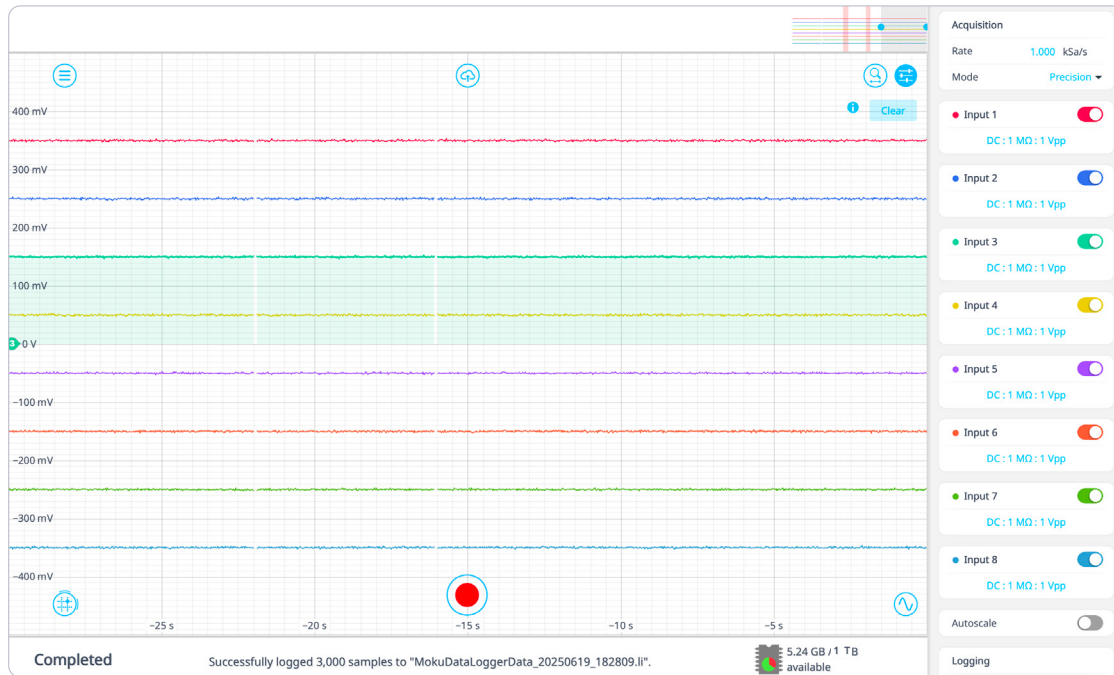




The Moku:Delta Data Logger features eight analog input channels with ultra-low noise performance ($< 10 \text{ nV}/\sqrt{\text{Hz}}$). Data can be logged directly to the integrated 1 TB SSD or streamed to network storage via API at a rate of up to 10 MSa/s, making it ideal for high-speed, long-duration measurements. With GPS-disciplined timing and support for external 10 MHz and 100 MHz clock references, Moku:Delta delivers a flexible and precise solution for applications such as multi-channel sensor monitoring, quantum optics, and real-time experimental control.



Number of Inputs
8

Acquisition Rate
10 MSa/s to SSD

Input Range
Up to 40 Vpp

Onboard storage
1 TB SSD

External Clock Reference Options
10 MHz, 100 MHz, GPS

Sine Wave Generator
4 Channels Integrated

Features

- Log voltage data on eight independent channels to the internal 1 TB SSD
- Built-in four-channel signal generator, up to 2 GHz
- Onboard GPS receiver for GPS-disciplined oscillator capability
- Easily export data to computer, Dropbox, and other cloud-based services
- Schedule the log to start with a delay of up to 10 days, or by external triggered start
- Stream data directly to your computer using Moku APIs, including Python and MATLAB

Specifications

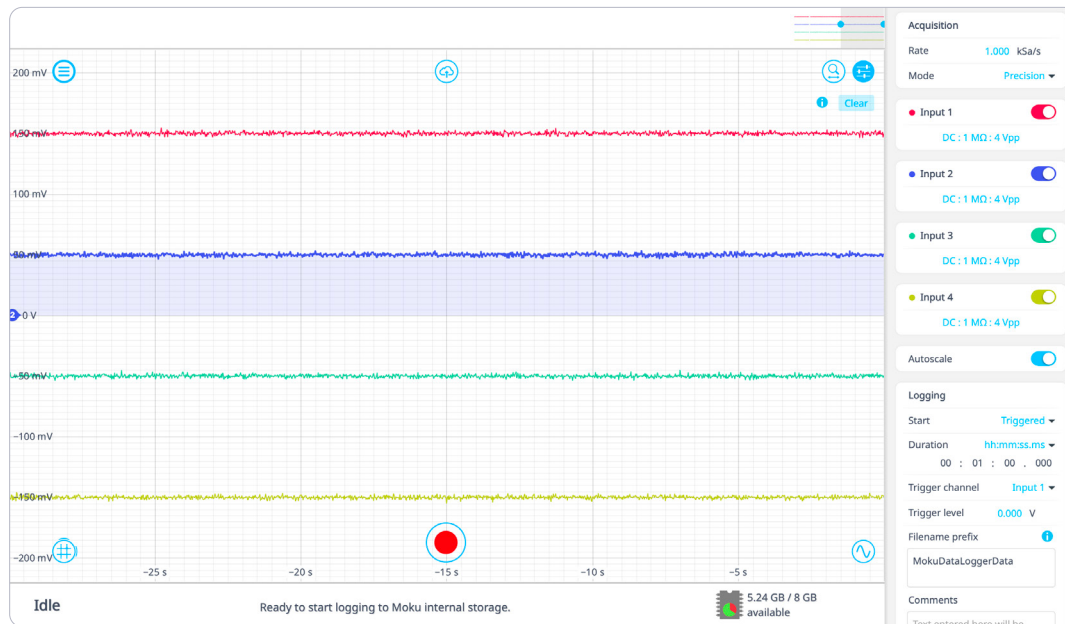
- Input ranges: 100 mVpp, 1 Vpp 10 Vpp, or 40 Vpp
- Input Impedance: 50 Ω / 1 M Ω
- Input coupling: AC / DC
- Maximum acquisition rate:
 - 10 MSa/s for 1 channel
 - 5 MSa/s for 2 channels
 - 2.5 MSa/s for 4 channels
 - 1.25 MSa/s for 8 channels
- Minimum acquisition rate: 10 Sa/s
- Acquisition mode:
 - Normal: direct downsampling
 - Precision: improves resolution by averaging
 - Peak detect: capture high and low amplitude samples

Applications

- Quantum optics
- Vibration analysis
- Environment monitoring
- Time-Correlated Single-Photon Counting (TCSPC)
- High-Frequency RF Signal Logging



The Moku:Pro Data Logger enables you to log data to its 240 GB internal solid-state drive with sampling rates of up to 10 MSa/s. All four inputs are equipped with dual 10-bit and 18-bit ADCs which, with blended ADC technology, lowers input noise to 30 nV/ $\sqrt{\text{Hz}}$ at 100 Hz providing ultra-low noise data logging from acoustic to RF frequencies. Moku:Pro is also equipped with a 10 MHz clock synchronization I/O and four 500 MHz outputs, allowing flexible integration with other electronics. Data can be streamed live or downloaded for analysis once the measurement is complete.



Number of Inputs
4

Acquisition Rate
10 MSa/s to SSD

Input Range
Up to 40 Vpp

Input Coupling
AC or DC

Input Impedance
50 Ω / 1 M Ω

Waveform Generator
Integrated

Features

- Log voltage data on four independent channels to its 240 GB SSD
- Built-in four-channel waveform generator, up to 500 MHz
- 10 MHz clock synchronization ports
- Easily export data to computer, Dropbox, and other cloud-based services
- Schedule your log to start with a delay of up to 10 days, or by external triggered start
- Stream data directly to your computer using Moku APIs, including for Python, MATLAB, and LabVIEW

Specifications

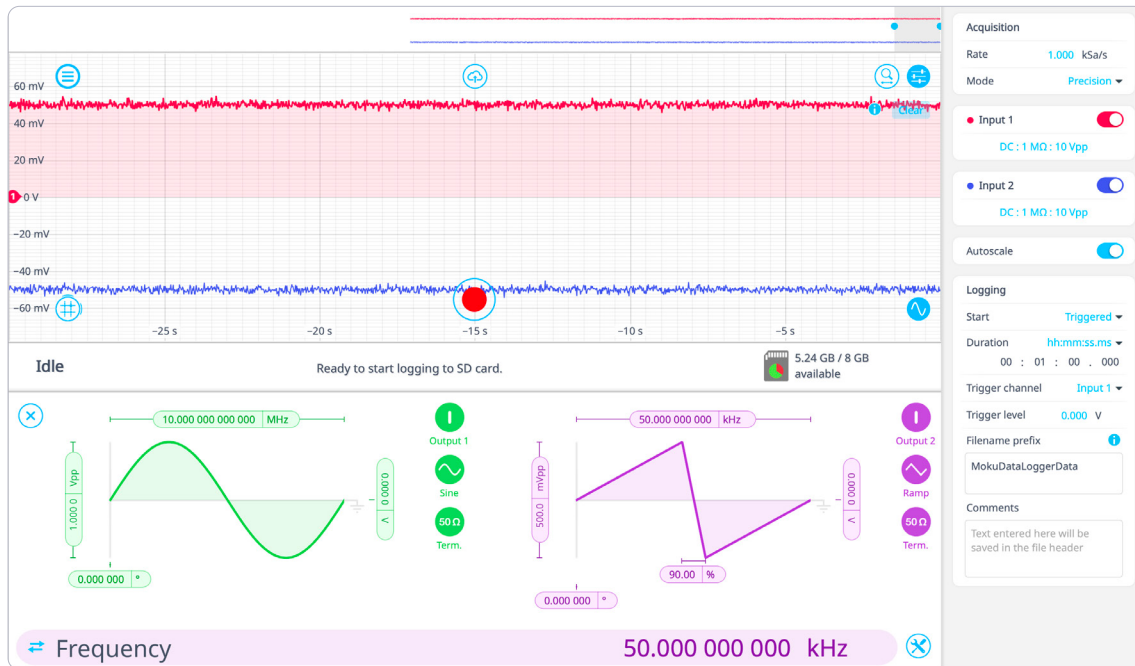
- Input ranges: 0.4 Vpp, 4 Vpp or 40 Vpp
- Input Impedance: 50 Ω / 1 M Ω
- Input coupling: AC/DC
- Maximum sampling rate:
 - 10 MSa/s for 1 channel
 - 5 MSa/s for 2 channels
 - 2.5 MSa/s for 4 channels
- Minimum sampling rate: 10 Sa/s
- Acquisition mode:
 - Normal: direct downsampling
 - Precision: improves resolution by averaging
 - Peak detect: Displays high and low amplitude samples

Applications

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



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
2

Acquisition rate
Up to 250 kSa/s

Input range
- 5 V to 5 V

Input coupling
AC or DC

Input impedance
50 Ω / 1 MΩ

Waveform generator
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, or by external triggered start
- Stream data directly to your computer using Moku APIs, including Python, MATLAB, and LabVIEW

Specifications

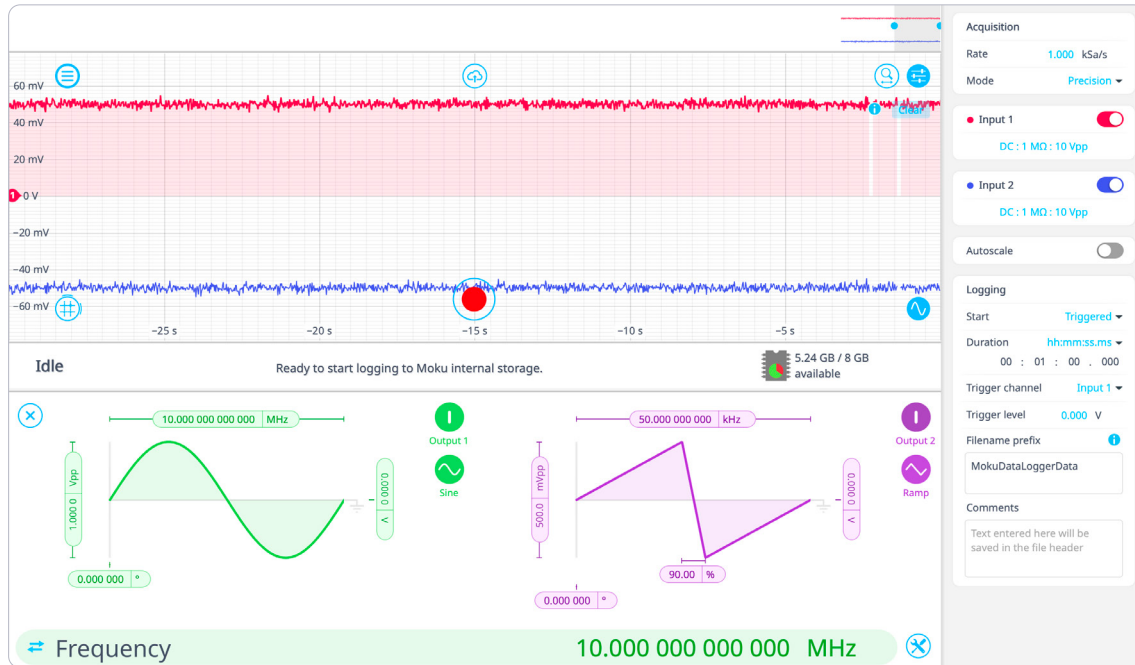
- Input range: 1 Vpp or 10 Vpp
- Input impedance: 50 Ω or 1 MΩ
- Input coupling: AC/DC
- Maximum sampling rate to SD card:
 - One channel: 250 kSa/s
 - Two channel: 125 kSa/s
- Minimum sampling rate: 10 Sa/s
- Acquisition mode:
 - Normal: Direct digitization at the acquisition rate
 - Precision mode: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

Applications

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



The Moku:Go Data Logger enables you to log data up to 1 MSa/s directly to its internal memory. The versatile front ends allows the user to select between AC / DC couplings, and ± 5 V or ± 25 V input ranges based on the experiment. It also provides a user-configurable sampling rate along with duration and delay start options. Data can be streamed live or downloaded for analysis once the measurement is complete.



Number of Inputs
2

Acquisition Rate
Up to 1 MSa/s

Input Range
 ± 5 V to ± 25 V

Input Coupling
AC or DC

Input Impedance
1 M Ω

Waveform Generator
Integrated

Features

- Log voltage data on two independent channels directly to the device
- Built-in two-channel 20 MHz waveform generator
- Easily download log files to your computer for analysis. Built-in conversion tool to convert the binary data to .csv, .mat, NumPy format
- Schedule your log to start on a delay of up to 10 days, or by external triggered start
- Stream data directly to your computer using Moku APIs, including for Python, MATLAB, and LabVIEW

Specifications

- Input range: 10 Vpp, or 50 Vpp
- Input Impedance: 1 M Ω
- Input coupling: AC/DC
- Maximum sampling rate:
 - 1 MSa/s with 1 channel enabled
 - 500 kSa/s with 2 channels enabled
- Minimum sampling rate: 10 Sa/s
- Acquisition modes:
 - Normal: Direct digitization at the acquisition rate
 - Precision mode: Downsampling from maximum sampling rate by averaging
 - Peak detect: Displays high and low amplitude samples

Applications

- Temperature monitoring
- Vibration analysis
- Environment monitoring
- Other sensor data recording