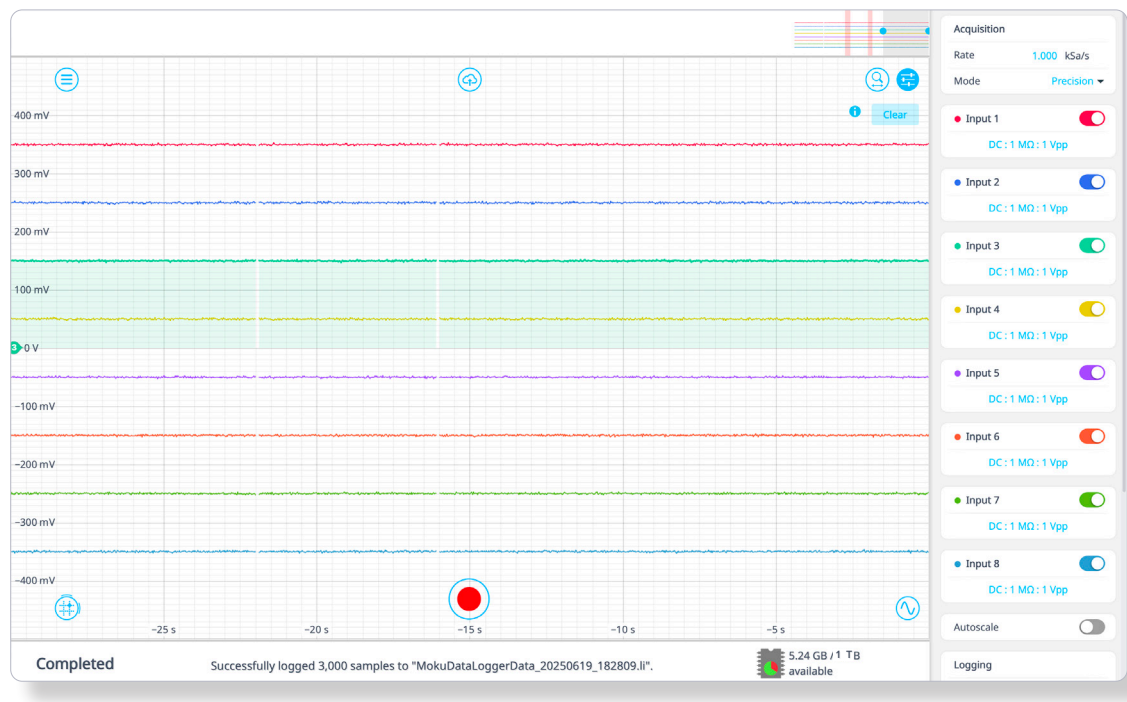




The Moku:Delta Data Logger features eight analog input channels with ultra-low noise performance ( $< 10 \text{ nV}/\sqrt{\text{Hz}}$ ). Data can be logged directly to the integrated 1 TB SSD or streamed to network storage via API at a rate of up to 10 MSa/s, making it ideal for high-speed, long-duration 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
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## 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

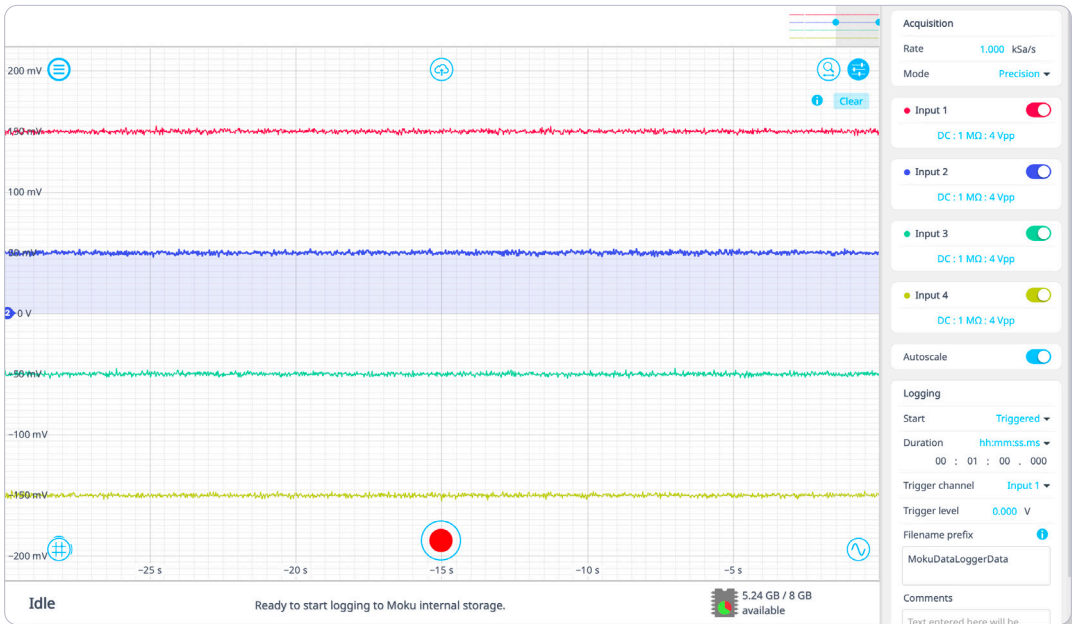
- Input ranges: 100 mVpp, 1 Vpp 10 Vpp, or 40 Vpp
- Input Impedance: 50  $\Omega$  / 1 M $\Omega$
- Input coupling: AC / DC
- Maximum acquisition rate:
  - 10 MSa/s for 1 channel
  - 5 MSa/s for 2 channels
  - 2.5 MSa/s for 4 channels
  - 1.25 MSa/s for 8 channels
- Minimum acquisition rate: 10 Sa/s
- 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	Acquisition Rate	Input Range	Input Coupling	Input Impedance	Waveform Generator
4	10 MSa/s to SSD	Up to 40 Vpp	AC or DC	50 $\Omega$ / 1 M $\Omega$	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

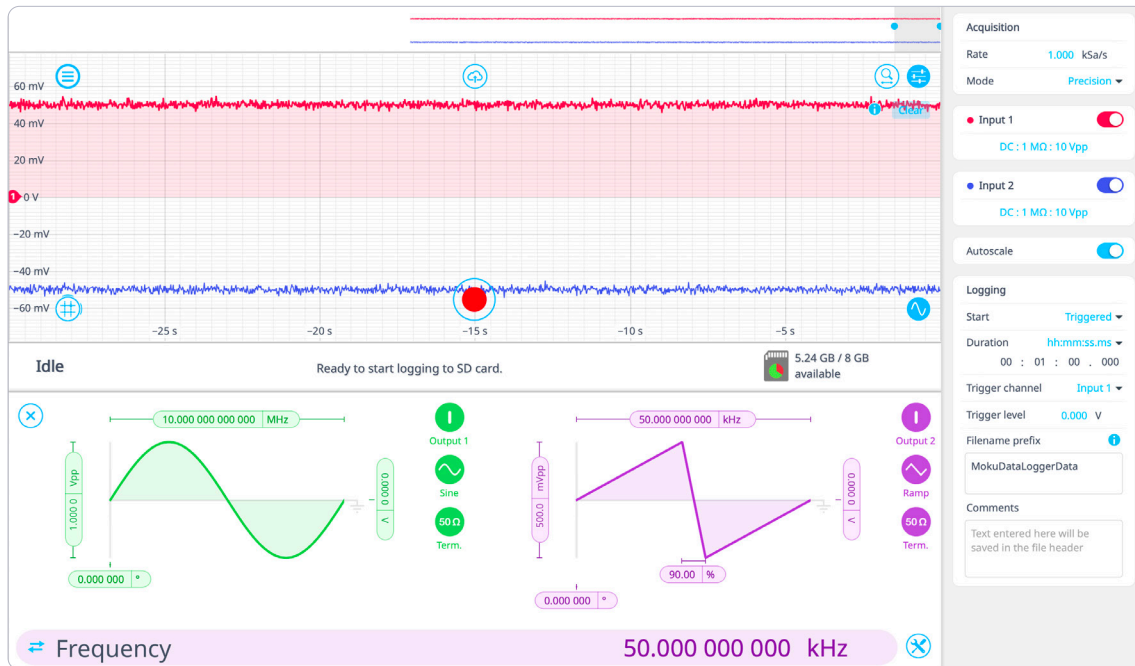
- Input ranges: 0.4 Vpp, 4 Vpp or 40 Vpp
- Input Impedance: 50  $\Omega$  / 1 M $\Omega$
- Input coupling: AC/DC
- Maximum sampling rate:
  - 10 MSa/s for 1 channel
  - 5 MSa/s for 2 channels
  - 2.5 MSa/s for 4 channels
- Minimum sampling rate: 10 Sa/s
- Acquisition mode:
  - Normal: direct downsampling
  - 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  $\Omega$  / 1 M $\Omega$

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

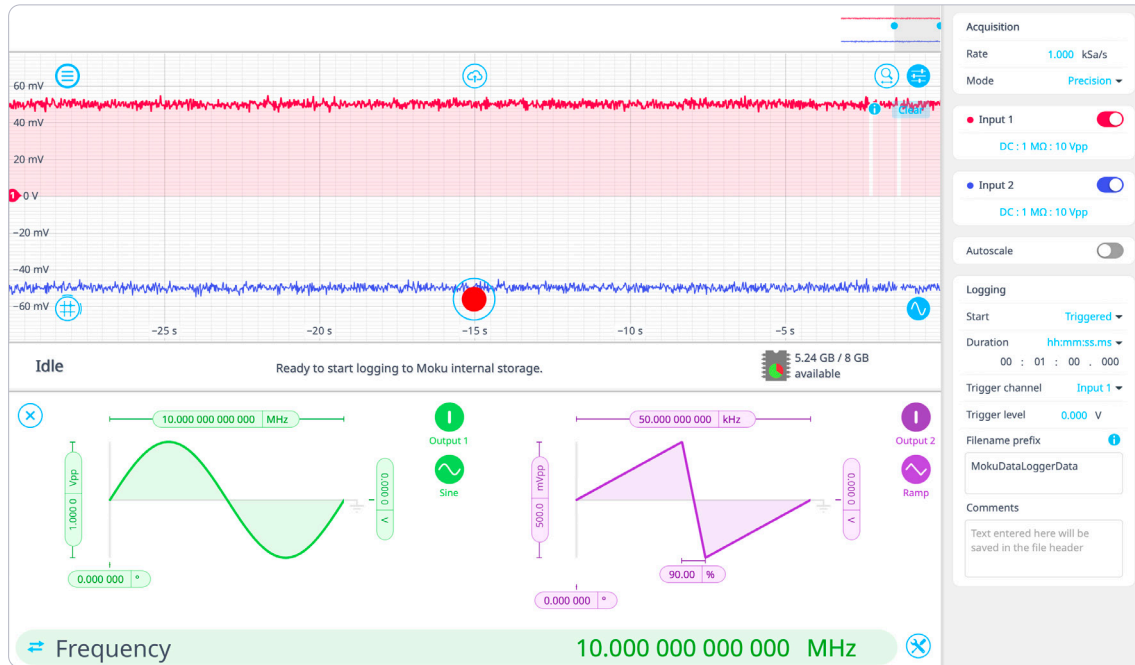
- Input range: 1 Vpp or 10 Vpp
- Input impedance: 50  $\Omega$  or 1 M $\Omega$
- Input coupling: AC/DC
- Maximum sampling rate to SD card:
  - One channel: 250 kSa/s
  - Two channel: 125 kSa/s
- Minimum sampling rate: 10 Sa/s
- Acquisition mode:
  - Normal: Direct digitization at the acquisition rate
  - 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  $\pm 5$  V or  $\pm 25$  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  
 **$\pm 5$  V to  $\pm 25$  V**

Input Coupling  
**AC or DC**

Input Impedance  
**1 M $\Omega$**

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 $\Omega$
- 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