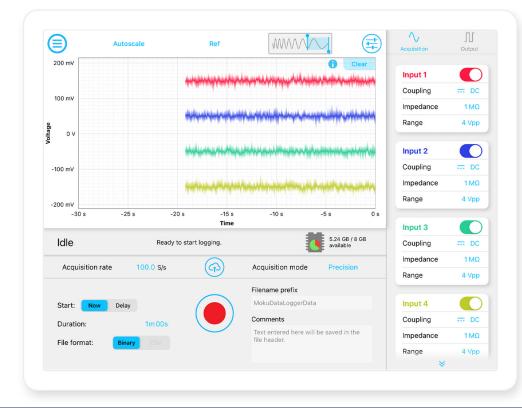# 4-Channel Ultra-Low-Noise Data Logger

Moku:Pro's Data Logger enables you to log data to its 120 GB internal solid-state drive with sampling rates of up to 10 MSa/s. Four inputs are equipped with dual 10-bit and 18-bit ADCs. With blended ADC technology, input noise is down to 30 nV/√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.

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 Ω / 1 MΩ**	**Integrated**

Features

- Log voltage data on four independent channels to its 120 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

Specifications

- Input ranges: 0.4 Vpp, 4 Vpp or 40 Vpp
- Input Impedance: 50 Ω / 1 MΩ
- 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 mode: improves resolution by averaging

Applications

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