



# Data Logger

## Description

The Moku:DataLogger enables you to log data directly to an SD card for long-term measurements at rates of up to 100 kS/s, where the duration is limited only by the capacity of the SD card. Data can also be acquired at up to 1 MS/s by saving directly to the Moku:Lab's 500 MB internal storage. Data saved to the Moku:Lab's internal storage can be uploaded to the cloud for analysis within seconds of the measurement finishing.



## Features

- Record two channels of data at up to 100 kS/s to SD card and 1 MS/s to internal storage
- Effortlessly upload recorded data to the cloud for analysis



# Specifications

## Input

### Voltage

Input voltage range	$\pm 0.5$ V into 50 $\Omega$ with 0 dB attenuation $\pm 5$ V into 50 $\Omega$ with 20 dB attenuation
Input impedance	50 $\Omega$ / 1 M $\Omega$
Input coupling	AC / DC

## Logging

### Acquisition

File formats	<p>Plain text: records data using a standard *.csv format</p> <p>Binary: records data using a proprietary *.li format for high-speed data logging.</p> <p><b>Note:</b> data saved using the *.li format must be converted to plain text using the LI file converter available here: <a href="https://github.com/liquidinstruments/lireader">https://github.com/liquidinstruments/lireader</a></p>
Export modes	SD Card, Dropbox, E-mail and iCloud, My Files (iOS 11)
Maximum sampling rate	<p>1 MS/s into RAM (format: *.li binary)</p> <p>100 kS/s into SD card (format: *.li binary)</p> <p>20 kS/s into RAM / SD card (format: *.csv)</p> <p><b>Note:</b> data saved to the Moku:Lab's on-board RAM will be lost when the device is rebooted.</p>
Delayed log start time	Up to 240 hours
Log duration	1 second up to 240 hours