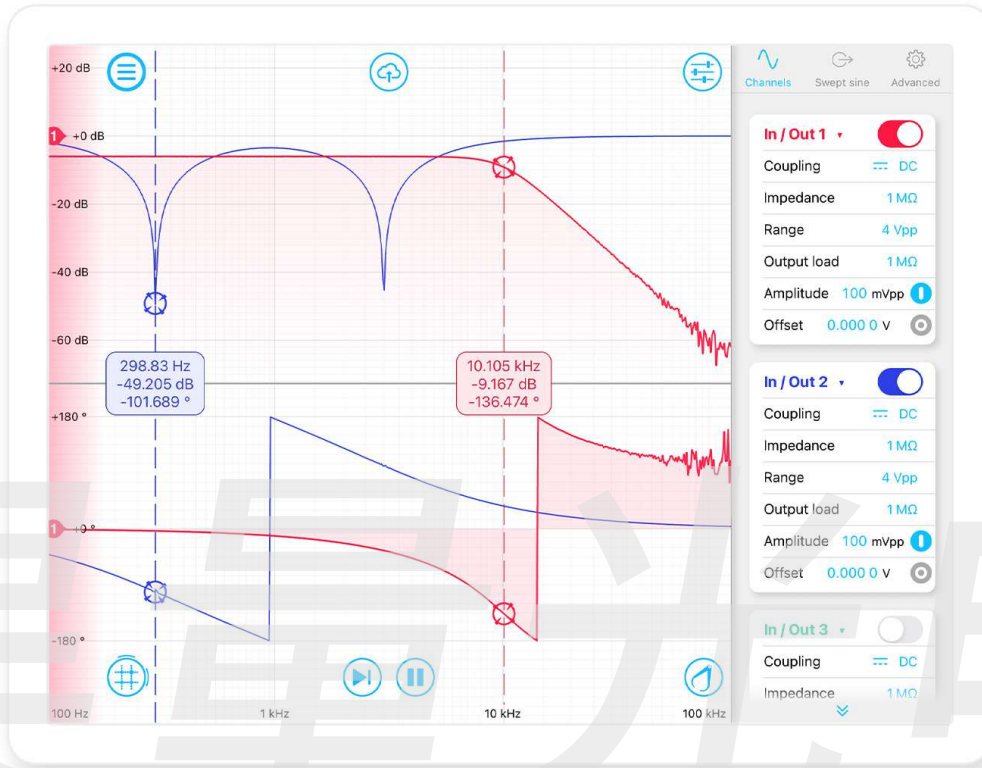




# Ultra Low-noise Frequency Response Analyzer

Moku:Pro's Frequency Response Analyzer enables you to measure the frequency response of a system in both magnitude and phase using a swept sine output from 10 mHz to 300 MHz. It has a noise floor of -135 dBm across the entire frequency range. Moku:Pro is equipped with four inputs and outputs ports, enabling differential or ratiometric measurements. Select from between 32 and 512 points per sweep and configure settling and averaging times to balance total sweep duration and signal-to-noise ratio.



**Frequency Range**  
Up to 300 MHz

**Input Impedance**  
50 Ω or 1 MΩ

**Averaging time**  
1 μs to 10 s

**Sweep**  
Linear/Logarithmic

**Output Voltage Range**  
Up to 10 Vpp

**Harmonics Detection**  
Up to 15th

## Features

- Linear or logarithmic swept sine output
- Math channel to add, subtract, multiply or divide response functions as they are acquired
- Measure key metrics with cursors and markers
- Configurable measurement averaging and settling times
- Easily save data and upload to the cloud or Dropbox in common formats
- Probe 4 systems simultaneously, or one system at multiple points
- Demodulate up to 15th harmonic

## Specifications

- Frequency range: 10 mHz to 300 MHz
- Averaging time: 1 μs to 10 s
- Settling time: 1 μs to 10 s
- Sweep points: 32, 64, 128, 256, 512
- Source impedance: 50 Ω
- Output Voltage Range: 2 Vpp  
10 Vpp (< 100 MHz)
- Input Impedance: 50 Ω or 1 MΩ
- Input range: 400 mVpp, 4 Vpp, or 40 Vpp
- Noise-floor: 10 mHz to 100 kHz: -100 dB  
100 kHz to 1 MHz: -125 dB  
1 MHz to 50 MHz: -130 dB  
50 MHz to 240 MHz: -120 dB

## Applications

- Impedance measurement
- Capacitance/inductance measurement
- Stability analysis
- Power supply analysis
- EMI filter characterization