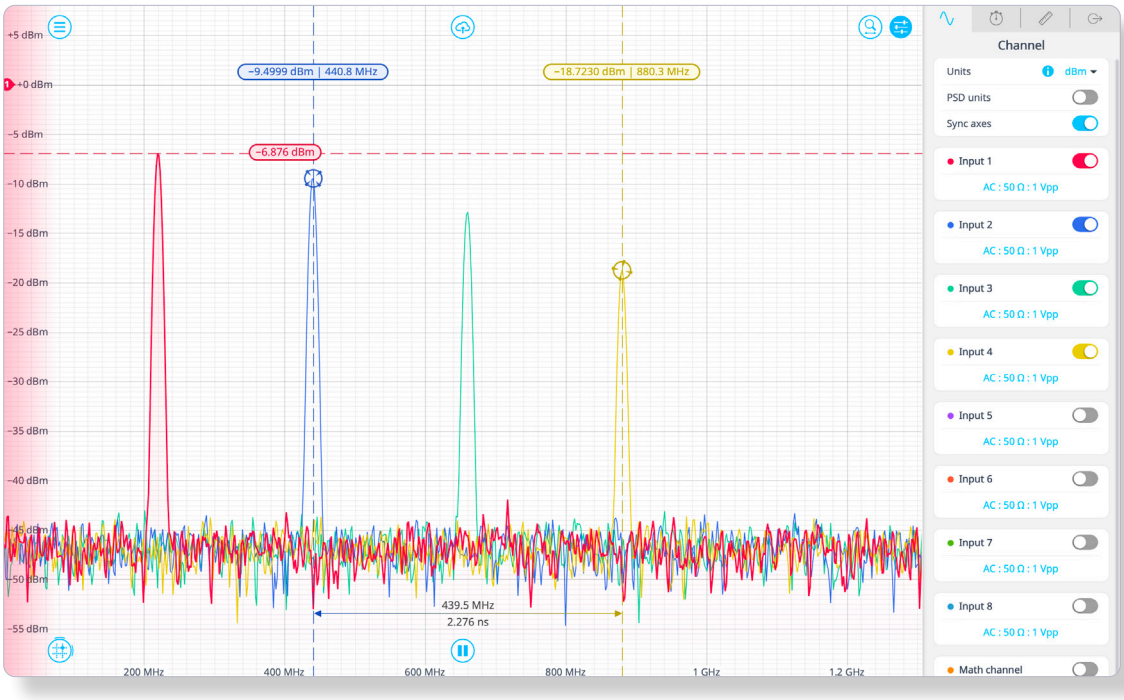
Moku:Delta Instrument Datasheet

Spectrum Analyzer



The Moku:Delta Spectrum Analyzer provides precision spectral analysis from DC to 2 GHz with a noise floor below 10 nV/√Hz across eight independent analog input channels. Hybrid 14-bit and 20-bit ADC blending enables high-fidelity acquisition with wide dynamic range across the full bandwidth. Real-time analysis and advanced digital windowing support detailed spectral inspection, making it well suited for RF diagnostics, quantum systems, and advanced research applications.



Frequency Range	Minimum RBW	Input Noise	Sine Wave Generator	Output Frequency	Advanced
DC to 2 GHz	**618.5 mHz**	**< 10 nV√Hz**	**4 channels**	**Up to 2 GHz**	**Real-time cross-correlation**

Features

- Display and record power spectra or power spectral densities in the frequency domain from DC to 2 GHz
- Real-time cross-correlation measurement to enhance signal detection amid noise
- Integrated high-speed signal generator channels with analog bandwidths up to 2 GHz
- Supported external clock reference: 10 MHz, 100 MHz, GPS
- Independent cursors for active peak tracking
- Live measurement functions: peak level, peak frequency, noise level, peak SNR, and occupied bandwidth

Specifications

- Frequency range:
  - 50 Ω: 2 GHz
  - 1 MΩ: 1 MHz
- Frequency span: 100 Hz to 2 GHz
- Number of input channels: 8
- Minimum resolution bandwidth (RBW): 618.5 mHz (span dependent)
- Input range:
  - 50 Ω: 100 mVpp, 1 Vpp, or 10 Vpp
  - 1 MΩ: 1 Vpp, or 40 Vpp
- Input impedance: 50 Ω / 1 MΩ
- Number of output channels: 4
- Output range: up to 2 GHz (1 Vpp)
  up to 100 MHz (10 Vpp)
- Video filter bandwidth: 580 mHz to 24 MHz

Applications

- Multi-channel spectrum monitoring
- System response characterization
- Noise spectra analysis
- Satellite communications
- RF system design and characterization
- Spurious signal identification
- Electromagnetic Interference (EMI) testing

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Note: All Moku:Delta specifications are subject to change.