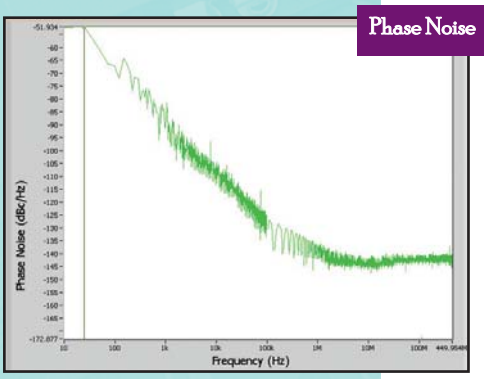
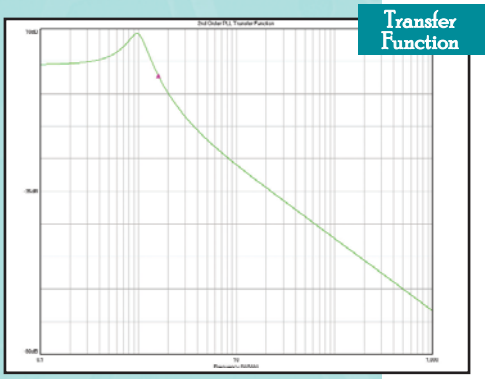
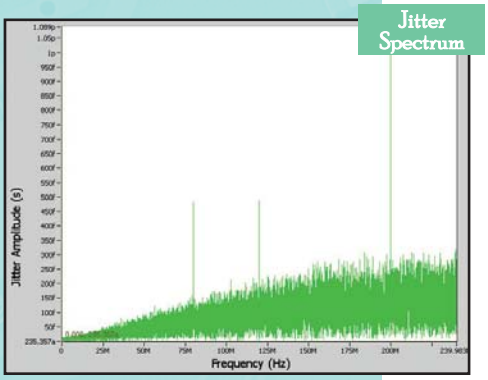
SSA

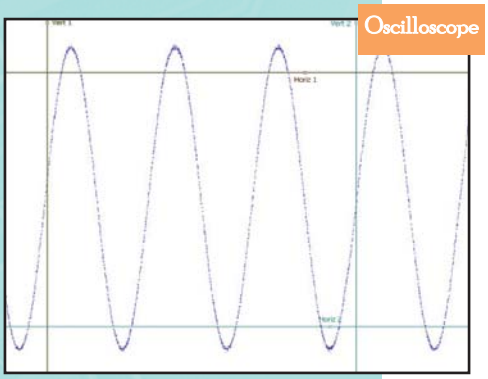
Signal Source Analyzer

Triple Domain









The Only General Purpose Clock Tool Available

Interact with colleagues on familiar terms: Frequency, Amplitude or Time

- Translate domains using the "Rosetta Stone" of instruments
- Address requirements of Telecom, SONET, Military/Aerospace and PC/Server datacom markets
- Meet the widest range of oscillator test specifications

Tackle More Test Parameters Than Current Single Instrumentation

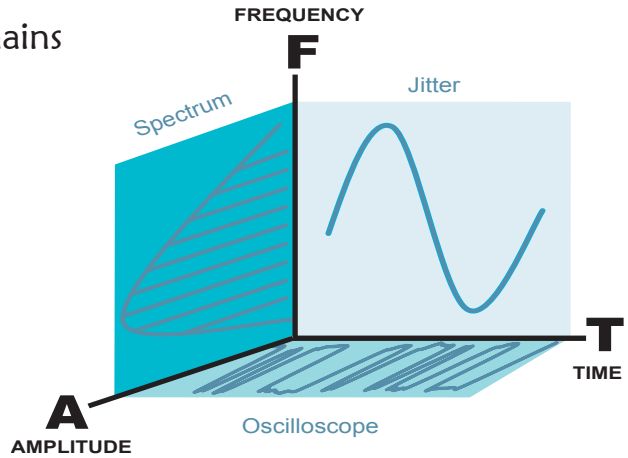
Phase Noise | Transfer Function | Jitter & Timing | Oscilloscope

Functionality of four systems in one, easy-to-use instrument

- Spectrum Analyzer, Phase Noise Analyzer, Jitter Analyzer and Oscilloscope

Measure in three domains

- Frequency
- Amplitude
- Time

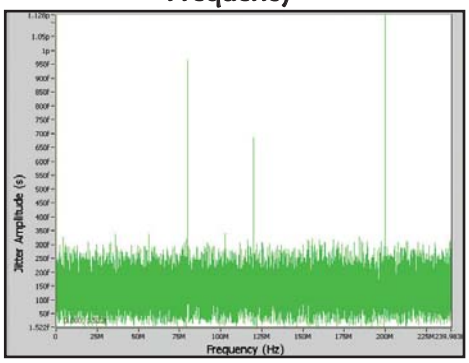


WAVECREST

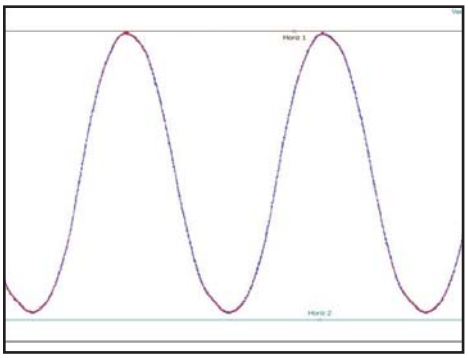
Extensive Functionality in 1 Easy to Use Solution

- **Phase Noise**
  - Low noise <-150dBc/Hz @ 10 KHz, 1 MHz and 10 MHz offsets
  - Extremely wide offset from 1 KHz to Fc/2 - well beyond 100 MHz
  - Runs jitter for 12 KHz - 20 MHz and 50 KHz - 80 MHz, standard
  - Customer selectable RMS jitter bandpass with programmable roll-off
- **Transfer Function**
  - Fast transfer functions for 2nd and 3rd PLL and DLL
  - Complete transfer function solution - no stimulus required
  - Graphical views of transfer function, bode plots; poles and zeros
  - PLL characteristics including peaking, BW, natural frequency and others
- **Jitter**
  - Jitter spectrum with noise floor <150 fs
  - Directly measures Random (RJ), Periodic (PJ), Deterministic (DJ) and Total Jitter (TJ)
  - Phase Jitter, Period Jitter, cycle-to-cycle jitter measurements
  - Output skew and other timing measurements with 200 fs resolution
  - Allen variance and wander with internal reference (1s) $5e10^{-11}$ and lower with external reference
- **Oscilloscope**
  - 15 GHz bandwidth
  - Rise time/fall time to < 25 ps (10% - 90%)
  - Time Interval Error
  - VOH/VOL, overshoot and ring back with 300 µv resolution
  - Full featured oscilloscope with multiple trigger options

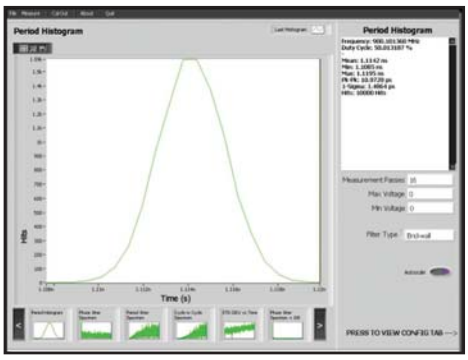
Frequency



Amplitude



Time



Model	Offset	Fc	Bandwidth
SSA-20	.04 Hz-Fc/2	.50 KHz-2 GHz	15 GHz
SSA-50	.04 Hz-Fc/2	.50 KHz-5 GHz	15 GHz
SSA-150	.04 Hz-Fc/2	.50 KHz-15 GHz	15/35 GHz

WAVECREST
Be certain of the signal you send.

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