

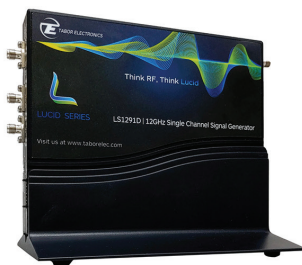
# Tabor Lucid Multi-Channel RF Signal Generators.

## Simplifying, Amplifier, Mixer and ADC Test

The Lucid RF signal generator Series is geared towards solving applications demanding outstanding dynamic range, fast switching speed, and easy remote programming for seamless system integration - all in a compact modular platform.

Lucid's modular architecture allow easy configuration in to 1, 2 or 4 Channel signal generator systems. In either a module, portable, bench-top or rack-mount formats.

**Desktop/Module**



**Portable**



**Bench-top**



**Rack**



Single channel module and Portable Units, Multiple Channel Rack and Bench-top Units

## Key Specifications

3, 6, 12GHz Models LS308x, LS608x, LS129x

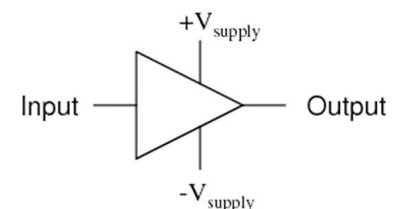
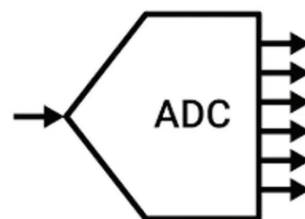
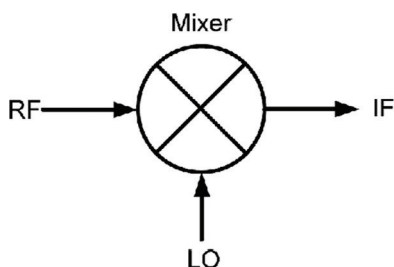
One to Four (Rack and Bench) phase coherent channels in a single box

Fast Switching speed of <100us

AM, FM, PM, Sweep & Pulse Modulation

Low Phase Noise of -145dBc/Hz @100MHz and 10@kHz offset

The Lucid analog signal generator platform offers all the functionality of a fully featured full-size RF signal generator in a modular scalable system. You can use it on your bench or easily scale up to hundreds of channels. Being a modular platform the Lucid Signal Generator Family is a solution for multiple applications from a spectrally pure local oscillator to an advanced analog-to-digital converter test tool.

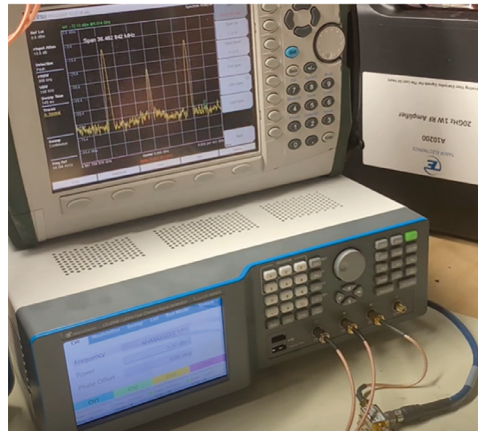


## Tabor Lucid Application Examples

The phase coherent, independent multi-channel capability of the Lucid Signal Generator Family allows for independent frequency, amplitude and phase control on each channel-making it ideal for testing Mixers, ADCs and Amplifiers.

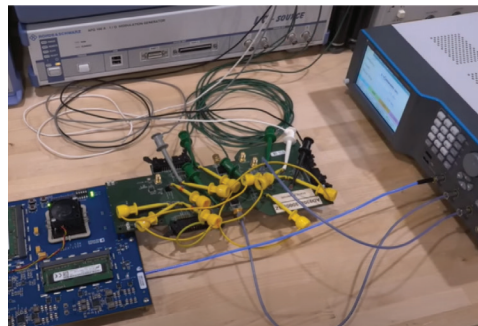
### Mixer Test

In this video we use three channels of the Lucid Signal Generator. Channel 1 provides the local oscillator signal at 15dBm, channel 2 and 3 provide two lower power tones as the IF signal and we measure the inter-modulation performance of the device.



### ADC Test and product Tear Down

The Signal Path video blog performs a tear down of the Lucid Family and then goes on to troubleshoot an ADC IC, using all four channels for signal stimulation and clock generation.



### Multi-tone and PAPR

This webinar explains the theory of multi-tone constructive and destructive interference and its effect on amplifiers performance. We compare high-fidelity tone creation using the Lucid Signal Generator and compare that to Arbitrary Wave Form Generator.

