

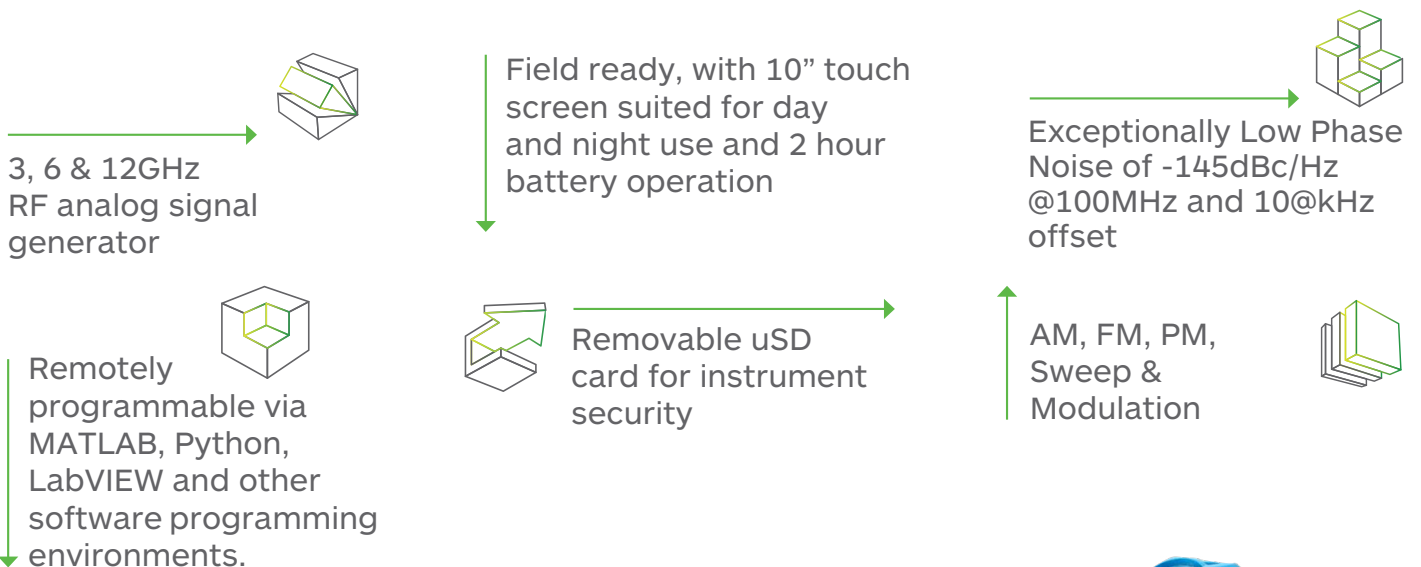


LUCID SERIES

THINK RF THINK LUCID

PORTABLE MODELS

Tabor's latest addition to its line of RF analog signal generators is by far the most advanced portable, handheld signal generator on the market. The all-new Lucid Series portable platform offers a modern design capable of operating either as a benchtop or a portable signal generator. The series feature 3, 6 and 12 GHz single channel versions, all sharing the very same industry leading highlighted features. Featuring superior signal integrity and purity, all the necessary modulated signals for analog communication systems, built in USB, optional LAN interfaces and removable micro-SD card, the Lucid Series is designed to meet today's most demanding applications, whether in the lab or out in the field.



Multiple Ways to Control the Unit and Write Your Code

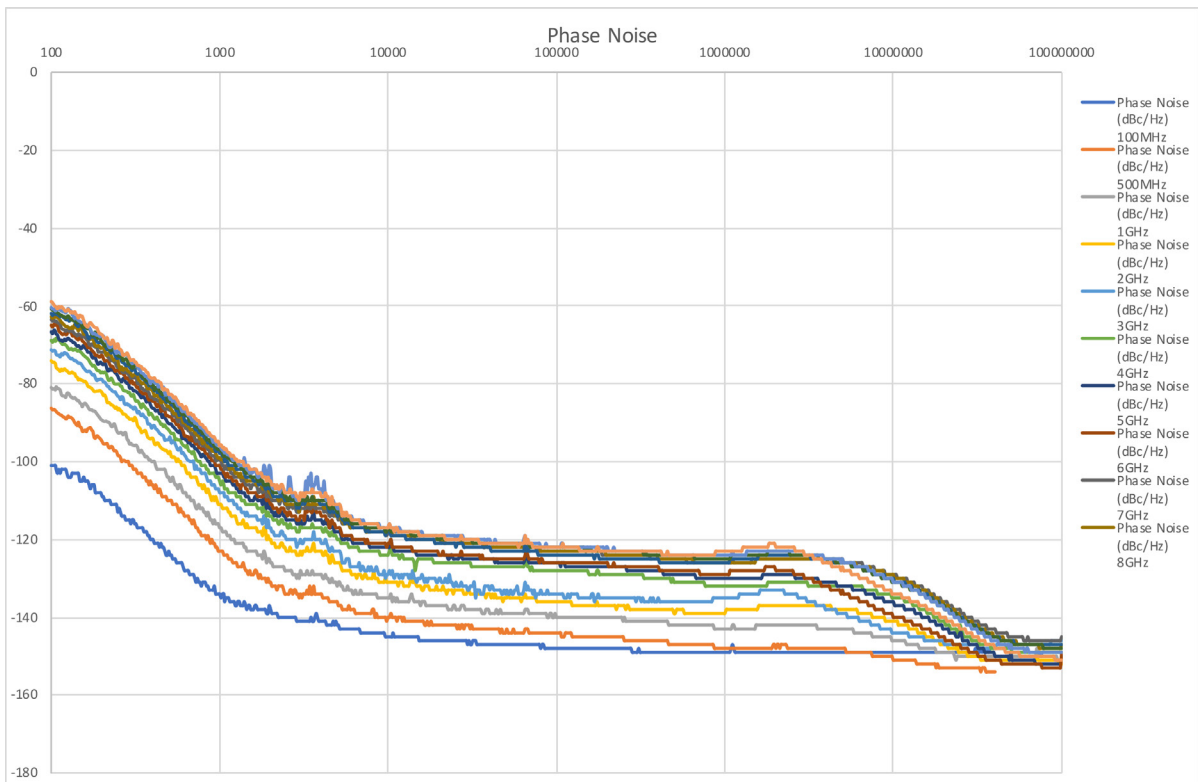
The Lucid Series has a dedicated software to control the instrument functions, modes and features via a graphical user interface (GUI). It also includes a complete set of drivers, allowing you to write applications in various environments, including LabVIEW, Python, CVI, C++, VB and MATLAB. You may also link the supplied DLL to other Windows-based API's or use low-level SCPI commands to program the instrument, regardless of whether the application is written for Windows, Linux or Macintosh operating systems.

Modulation Schemes

Signal bursts and chirps have become common need in most aerospace or defense application. With Tabor's Lucid Series, any signal modulation is possible, no matter if "narrow" or "standard" signals are required. On top of its outstanding pulse modulation performance, the Lucid Series is also equipped with many CW interferers, and modulated signals such as AM, FM, PM, Pulse, Pattern and Sweep.

Easy to use

The Portable platform offers a 10" touch screen with user friendly GUI to quickly and easily generate the required signal, while displaying all the critical information. For remote control, the series is equipped with a built-in USB interface enabling remote programming from PC. For those requiring LAN interface a USB to LAN converter can be provided.



Specifications

| FREQUENCY | |
|-------------------------|----------------|
| Range: | |
| LS3081P: | 9 kHz to 3GHz |
| LS6081P: | 9 kHz to 6GHz |
| LS1291P: | 9 kHz to 12GHz |
| Resolution: | 0.001 Hz |
| Phase offset: | 0.01 deg |
| Switching speed: | 500 μ s |

| FREQUENCY REFERENCE | |
|-------------------------|--------------------------|
| Temp. Stability: | \pm 25 ppb max. |
| Aging: | \pm 3 ppm for 20 years |
| Warm up time: | 30 min |

| AMPLITUDE | | |
|----------------------------|------------------------|---------------------------------|
| Max output power: | | |
| Settable: | +20 dBm | |
| Calibrated: | +15 dBm ⁽¹⁾ | |
| Min output power: | Base | LP Opt. |
| Settable: | -30 dBm | -100 dBm |
| Calibrated: | -20 dBm | -80 dBm |
| Resolution: | 0.01 dB | |
| Power Mute: | -95 dBm | |
| Output Return Loss: | -10 dBm | |
| Accuracy (dB): | -50dBm to +15dBm | -90dBm to -50dBm ⁽²⁾ |
| Up to 100MHz: | \pm 0.3 (typ.) | \pm 0.5 (typ.) |
| 100MHz to 3GHz: | \pm 0.4 (typ.) | \pm 0.6 (typ.) |
| 3GHz to 9GHz: | \pm 0.7 (typ.) | \pm 0.9 (typ.) |
| Above 9GHz: | \pm 1 (typ.) | \pm 1.5 (typ.) |

| PHASE NOISE (dBc/Hz) | |
|--------------------------------|-------------|
| Measured @ 10kHz offset | |
| 1 GHz: | -138 (typ.) |
| 2 GHz: | -133 (typ.) |
| 3 GHz: | -130 (typ.) |
| 6 GHz: | -124 (typ.) |
| 12 GHz: | -118 (typ.) |

| HARMONICS (dBc) | |
|---------------------------|------------------------|
| Up to 100 MHz: | -30 dBc |
| 100 MHz to 12 GHz: | -50 dBc ⁽³⁾ |

| SUB HARMONICS (dBc) | |
|---------------------|---------|
| 6 to 12 GHz: | -55 dBm |

| NON HARMONICS (dBc) | |
|----------------------|--|
| Up to 12 GHz: | -90dBc (typ.) ^(4,5) -60dBc max. ⁽⁶⁾ |

| MODULATION | |
|-----------------------------|----------------------------|
| FREQUENCY MODULATION | |
| Maximum Deviation: | 10 MHz |
| Resolution: | 0.1% or 1 Hz (the greater) |
| Modulation Rate: | 1 MHz |
| Resolution: | 1 Hz |

| AMPLITUDE MODULATION ⁽⁶⁾ | |
|-------------------------------------|---------------|
| AM Depth: | |
| Type: | Linear |
| Maximum settable: | 90% |
| Resolution: | 0.1% of depth |
| Modulation rate: | DC to 100 kHz |

| PHASE MODULATION | |
|-------------------------|---------------|
| Peak Deviation: | 360 deg |
| Modulation Rate: | DC to 100 kHz |

| PULSE MODULATION (PLS OPTION) | |
|----------------------------------|--------------|
| On/off ratio: | 60 dB |
| Rise/fall time (10%-90%): | 15ns (typ.) |
| Resolution: | 6.4ns |
| Minimum Width: | 32ns |
| Repetition frequency: | DC to 10 MHz |

| PATTERN MODULATION (PAT OPTION) | |
|---------------------------------|------------------|
| Number of steps: | 1 to 2048 |
| Step Repetition: | 1 to 65535 |
| On/off time: | 32 ns to 20 days |

| SWEEP | |
|--------------------------|--------------------------------|
| Range: | Same as freq. range |
| Modes: | Frequency and amplitude |
| Dwell time: | 10 μ s to 1000 s |
| Resolution: | 1 μ s |
| Number of points: | 2 to 65535 |
| Step change: | Linear |
| Trigger: | Free run, External, Bus, Timer |

| INPUTS | |
|---------------------------------|----------------------|
| MODULATION INPUT | |
| Connector Type: | SMA |
| Input Impedance: | 50 Ω |
| Max. input voltage: | \pm 1V |
| Input damage level: | \pm 3.5V |
| PULSE / TRIGGER INPUT | |
| Connector type: | SMA |
| Input Impedance: | 50 Ω |
| Input voltage: | TTL, CMOS compatible |
| Threshold: | 1.5V |
| Damage level: | -0.42V or 5.42V |
| EXTERNAL REFERENCE INPUT | |
| Connector type: | SMA |
| Input Impedance: | 50 Ω |
| Waveform: | Sine or Square |
| Frequency: | 10/100MHz |
| Power: | -3 dBm to +10 dBm |
| Absolute Max. Level: | +15 dBm |
| Locking Range: | \pm 2 ppm |

| OUTPUTS | |
|----------------------------|-------------|
| RF OUT | |
| Impedance: | 50 Ω |
| Connector type: | SMA |
| Number of channels: | 1 |

⁽¹⁾ Above 25kHz; ⁽²⁾ With LP Option; ⁽³⁾ 750MHz to 900MHz -35dBc (typ.); ⁽⁴⁾ -60dBm max. @ 1GHz, 1.5GHz, 2.5GHz and 3GHz; ⁽⁵⁾ -75dBm max. @ -15dBm to +15dBm and f>6GHz
⁽⁶⁾ Boundary spurs which may appear @ -100MHz to +100MHz offset from CW. ⁽⁶⁾ Specified for >100MHz.

Specifications

| GENERAL | |
|----------------------------|---|
| Voltage: | +12.0 to +12.6 VDC |
| Supply Voltage: | +15 V DC |
| Power Consumption: | 60W max. (45W typ) |
| Display Type | 10", TFT capacitive touch screen |
| Battery (included): | |
| Type: | 4-cell, replaceable |
| Standby: | Up to 2 hours |
| Max. load: | Up to 1 hours |
| Interface: | |
| Host: | 2 x USB type A |
| Device: | 1 x USB type B 1 x micro USB for LAN adapter |
| Storage: | Removable SD card |
| Dimensions: | 280 x 225 x 65 mm (W x H x D) |
| Weight: | |
| Without Package: | 3 kg |
| Shipping Weight: | 4.5 kg |
| Temperature: | |
| Operating: | 0°C to +40°C |
| Storage: | -40°C to +70°C |
| Warm up time: | 15 minutes |
| Humidity: | 85% RH, non - condensing |
| Safety: | CE Marked, IEC61010-1:2010 |
| EMC: | IEC 61326-1:2013 |
| Calibration | 2 years |
| Warranty*: | 3 year standard * 1 year standard in India |

| ORDERING INFORMATION | |
|----------------------|---|
| MODEL | DESCRIPTION |
| LS3081P | 3GHz Portable RF Analog Signal Generator |
| LS6081P | 6GHz Portable RF Analog Signal Generator |
| LS1291P | 12GHz Portable RF Analog Signal Generator |
| OPTION | |
| BAT | 4-cell, replaceable battery (extra) |
| CHA | External Charger for the Lucid Portable Battery |
| PLS | Pulse Modulation Option |
| PAT | Pattern Modulation Option |
| LP | Low Power Option |



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