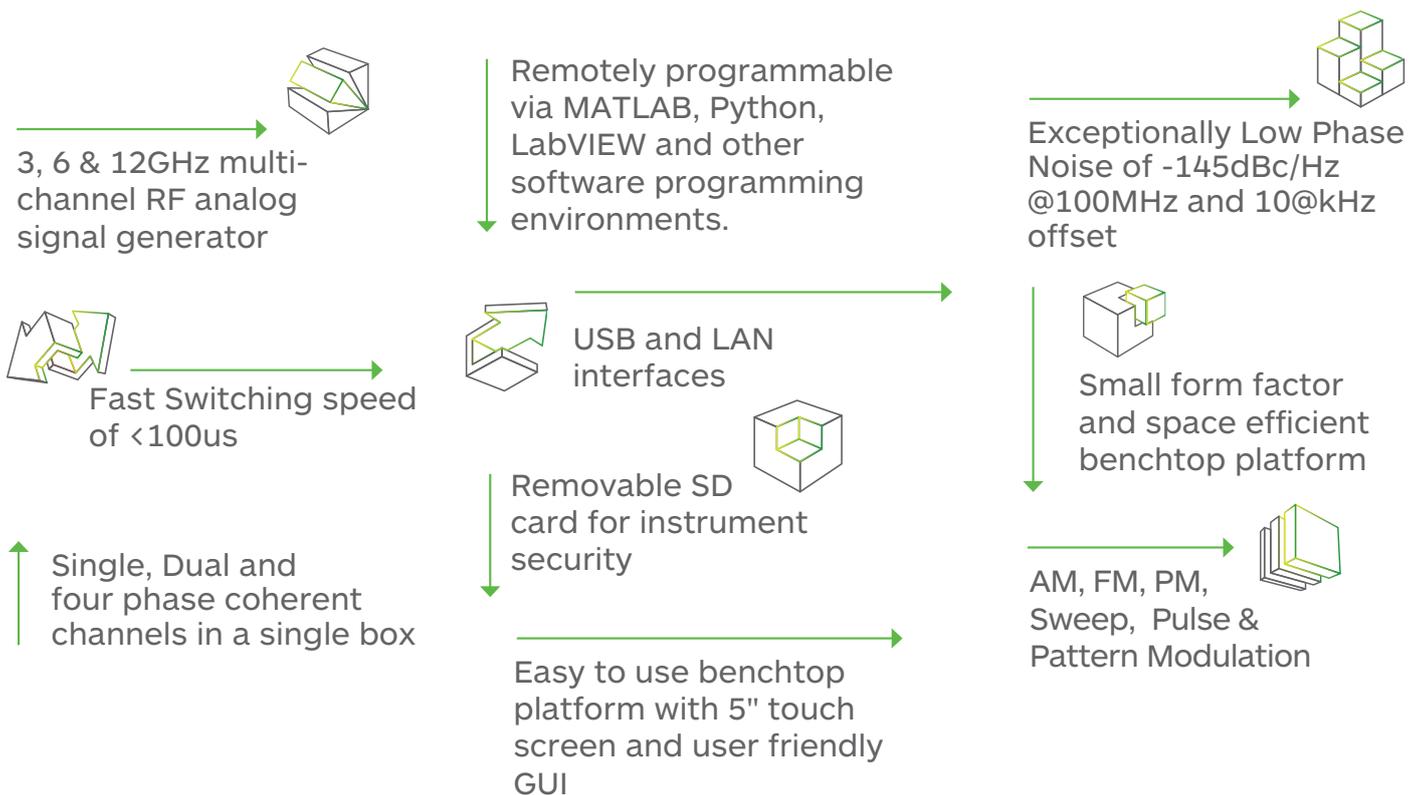


LUCID SERIES

THINK RF THINK LUCID

BENCHTOP MODELS

The all-new Lucid Series benchtop platform offers up to 4 phase coherent channels in a standalone compact unit. The series feature 3, 6 and 12 GHz models in single, dual or four channel versions, all sharing the very same industry leading highlighted features. Featuring extremely fast switching speed, superior signal integrity and purity, removable memory card for maximum security, all the necessary modulated signals for analog communication systems, built in LAN and USB interfaces, the Lucid Series is designed to meet today's most demanding specifications, needed from the R&D benches to the production lines.



Signal Integrity and Purity

One of the most important requirements in today's testing and measurement applications is a high signal quality. With a typical SSB phase noise of -145dBc at 100MHz , and -132dBc at 1GHz , at 10kHz carrier offset. Lucid delivers one of the best quality signals available on the market today.

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

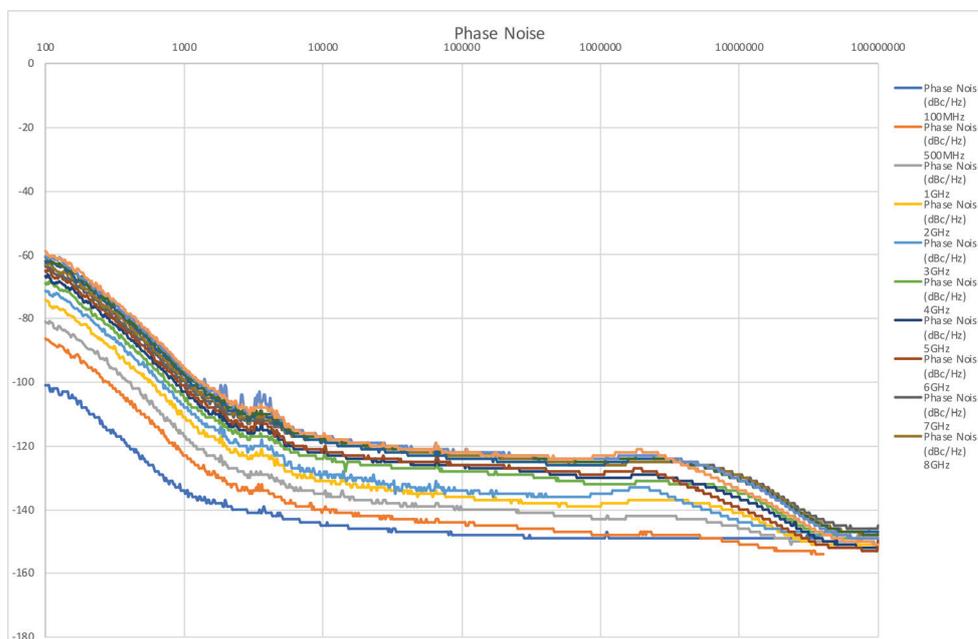
Signal bursts and chirps have become common need in most aerospace or defense application. With Tabor's Lucid Series, any signal modulation is possible, no matter if "narrow" or "standard" signals are required. On top of its outstanding pulse modulation performance, the Lucid Series is also equipped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

Multi-channel, phase coherent, benchtop generator

Many test systems and experimental setups require multiple RF channels, either separate or synchronized. The Lucid series benchtop platform offers up to 4, separate or phase coherent, RF outputs in a single 19" 2U box, saving up to 4 times the space compared to available benchtop solutions on the market. You can save both valuable bench/rack space and investment capital without compromising performance.

Easy to use

The benchtop platform offers a 5" 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 Ethernet and USB interface enabling remote programming from PC.



Specifications

| GENERAL | |
|--------------------------------|--|
| Voltage Range: | 90VAC to 264VAC |
| Frequency Range: | 47Hz to 63Hz |
| Power Consumption: | 100W |
| Display Type: | 5", TFT capacitive touch screen |
| Interface: | |
| Host: | 2 x front panel USB type A 1 x rear panel USB type A |
| Device: USB: LAN: | 1 x rear panel USB type B 1 x rear panel 1000/100/10 BASE-T |
| Storage: | Removable SD card |
| Dimensions (W x H x D): | |
| Without feet | 315 X 88 x 425 mm |
| With feet | 315 X 102 x 425 mm |
| Weight: | |
| Without Package: | 6.0 kg |
| Shipping Weight: | 6.5 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, EC61010-1:2010 |
| EMC: | IEC 61326-1:2013 |
| Calibration: | 2 years |
| Warranty: | 1 / 3 year warranty plan |

| ORDERING INFORMATION | |
|----------------------|--|
| MODEL | DESCRIPTION |
| LS3081B | 3GHz Single Channel RF Analog Signal Generator |
| LS3082B | 3GHz Dual Channel RF Analog Signal Generator |
| LS3084B | 3GHz Four Channel RF Analog Signal Generator |
| LS6081B: | 6GHz Single Channel RF Analog Signal Generator |
| LS6082B | 6GHz Dual Channel RF Analog Signal Generator |
| LS6084B | 6GHz Four Channel RF Analog Signal Generator |
| LS1291B | 12GHz Single Channel RF Analog Signal Generator |
| LS1292B | 12GHz Dual Channel RF Analog Signal Generator |
| LS1294B | 12GHz Four Channel RF Analog Signal Generator |
| OPTIONS | |
| PLS | Pulse Modulation |
| PAT | Pattern Modulation |
| ELP | Extended Low Power (-150dBc) |
| EPR | Extended Power Range (-130dBc to +27dB) |
| FS | Fast Switching |
| EMU | Emulator pack for Keysight, R&S, Anapico & Holzworth |
| W-Rack | Rack mount kit |