

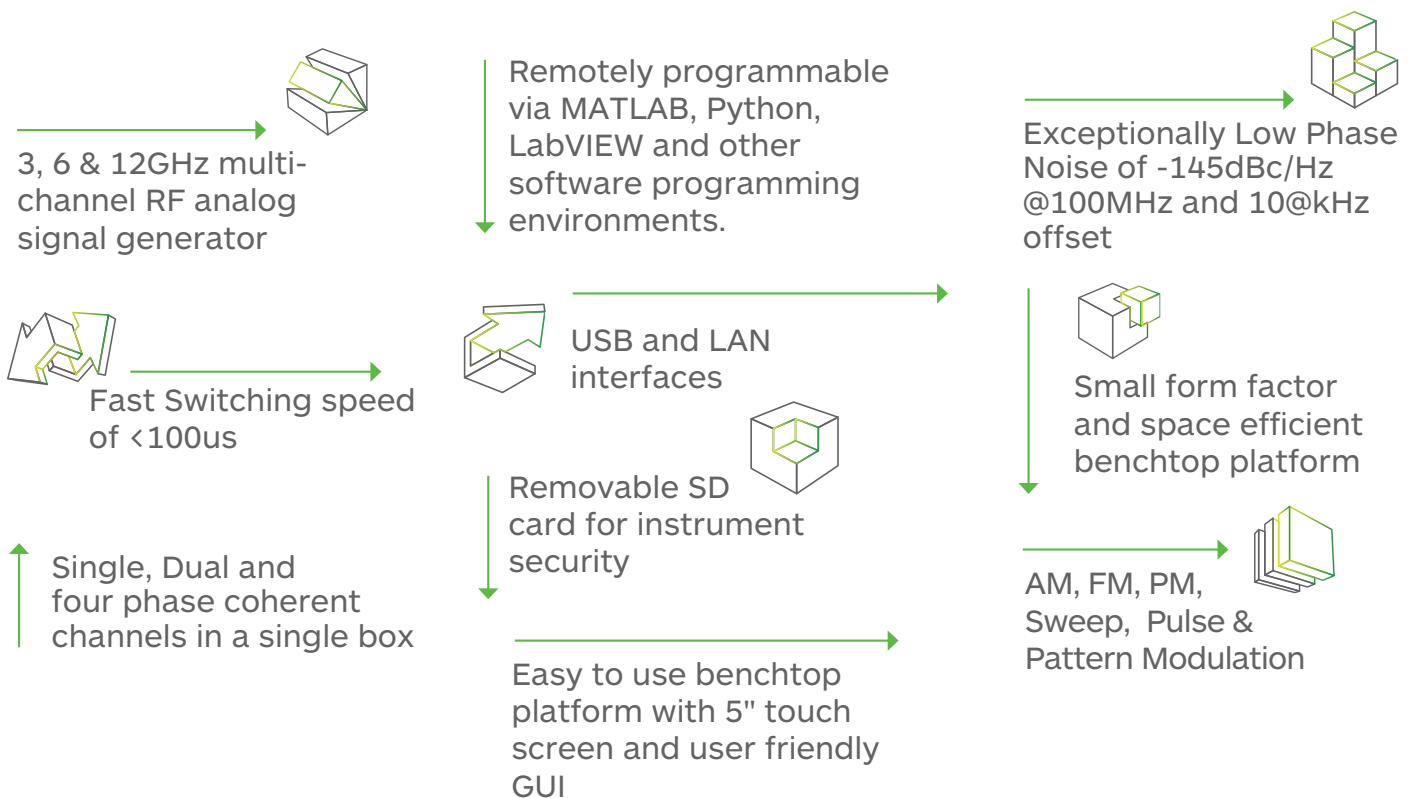


LUCID SERIES

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

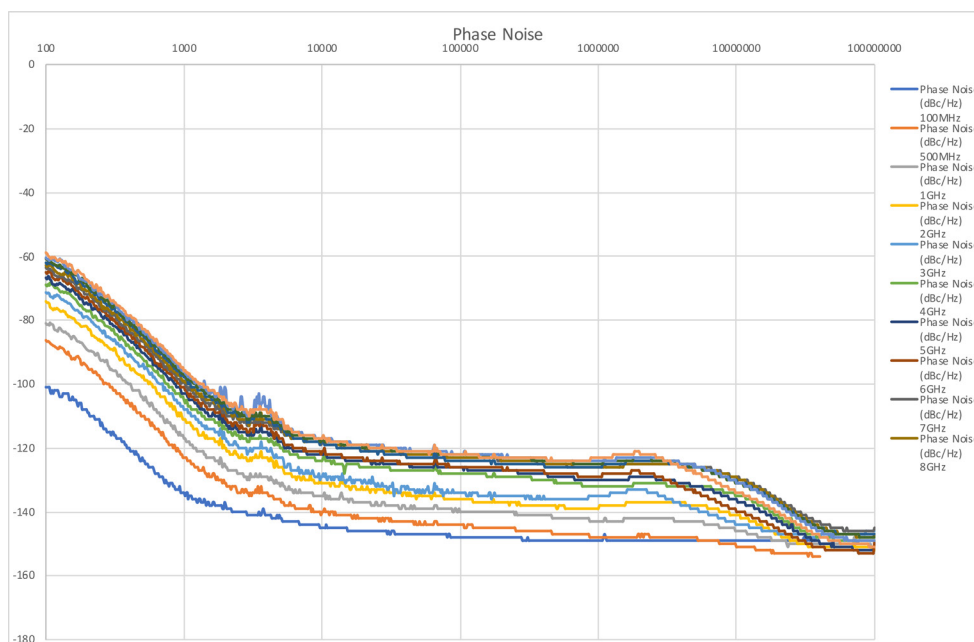
Signal bursts and chirps have become common need in most aerospace or defense application. With Tabor's Lucid Series, any signal modulation is possible, no matter if "narrow" or "standard" signals are required. On top of its outstanding pulse modulation performance, the Lucid Series is also equipped 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

FREQUENCY		HARMONICS (dBc)		Resolution:	
Range:		Up to 100 MHz:	-30 dBc	Number of points:	
LS3081/2/4B:	9 kHz to 3GHz	100 MHz to 12 GHz:	-50 dBc ⁽²⁾	List:	2 to 4,096
LS6081/2/4B:	9 kHz to 6GHz			Step:	2 to 65,535
LS1291/2/4B:	9 kHz to 12GHz			Step change:	Linear
Resolution:	0.001 Hz			Trigger:	Free run, External, Bus, Timer
Phase offset:	0.01 deg				
Switching speed:					
Standard:	500 μs				
FS Option:	100 μs				
FREQUENCY REFERENCE		SUB-HARMONICS (dBc)		INPUTS	
Temp. Stability:	±25 ppb max.	6 to 12 GHz:	-55 dBm	MODULATION INPUT	
Aging:	± 3 ppm for 20 years			Connector Type:	BNC
Warm up time:	30 min			Input Impedance:	50Ω
				Max. input voltage:	±1V
				Input damage level:	±3.5V
				PULSE / TRIGGER INPUT	
				Connector type:	BNC (per channel)
				Input Impedance:	50Ω
				Input voltage:	TTL, CMOS compatible
				Threshold:	1.5V
				Damage level:	-0.42V or 5.42V
				EXTERNAL REFERENCE INPUT	
				Connector type:	BNC (per channel)
				Input Impedance:	50Ω
				Waveform:	Sine or Square
				Frequency:	10/100MHz
				Power:	-3 dBm to +10 dBm
				Absolute Max. Level:	+15 dBm
				Locking Range:	±2 ppm
AMPLITUDE		MODULATION		OUTPUTS	
Max output power:		FREQUENCY MODULATION		RF OUT	
Settable:	+20 dBm	Maximum Deviation:	10 MHz	Impedance:	50Ω
Calibrated:	+15 dBm ⁽¹⁾	Resolution:	0.1% or 1 Hz (the greater)	Connector type:	SMA
Min output power:		Modulation Rate:	1 MHz	Number of outputs:	
Settable:	-100 dBm	Resolution:	1 Hz	LS3081/6081/1291B:	1
Calibrated:	-80 dBm	AMPLITUDE MODULATION ⁽⁶⁾		LS3082/6082/1292B:	2
Resolution:	0.01 dB	AM Depth:		LS3084/6084/1294B:	4
Power Mute:	-95 dBm	Type:	Linear	REFERENCE OUT	
Output Return Loss:	-10 dBm	Maximum settable:	90%	Impedance:	50Ω
Accuracy (dB):	-50dBm to +15dBm	Resolution:	0.1% of depth	Connectors type:	2 x BNC
Up to 100MHz:	±0.3 (typ.)	Modulation rate:	DC to 100 kHz	Frequency:	10 MHz or 100 MHz
100MHz to 3GHz:	±0.4 (typ.)	PHASE MODULATION		Shape:	Sine
3GHz to 9GHz:	±0.7 (typ.)	Peak Deviation:	360 deg	Power:	3 to 7 dBm
Above 9GHz:	±1 (typ.)	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 step, Amplitude step, List		
		Dwell time:	10 μs to 1000 s		
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.)				

⁽¹⁾ Above 25kHz; ⁽²⁾ 750MHz to 900MHz -35dBc (typ.); ⁽³⁾ -60dBm max. @ 1GHz, 1.5GHz, 2.5GHz and 3GHz;

⁽⁴⁾ -75dBm max. @ -15dBm to +15dBm and f>6GHz; ⁽⁵⁾ Boundary spurs which may appear @ -100MHz to +100MHz offset from CW. ⁽⁶⁾ Specified for >100MHz.

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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:	1 x rear panel USB type B
LAN:	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*:	3 year standard * 1 year standard in India

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



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