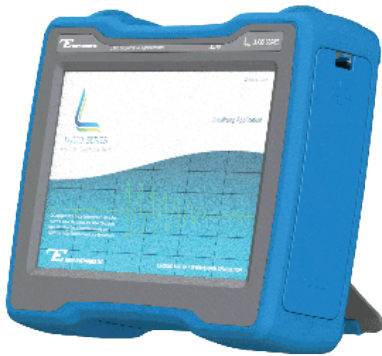
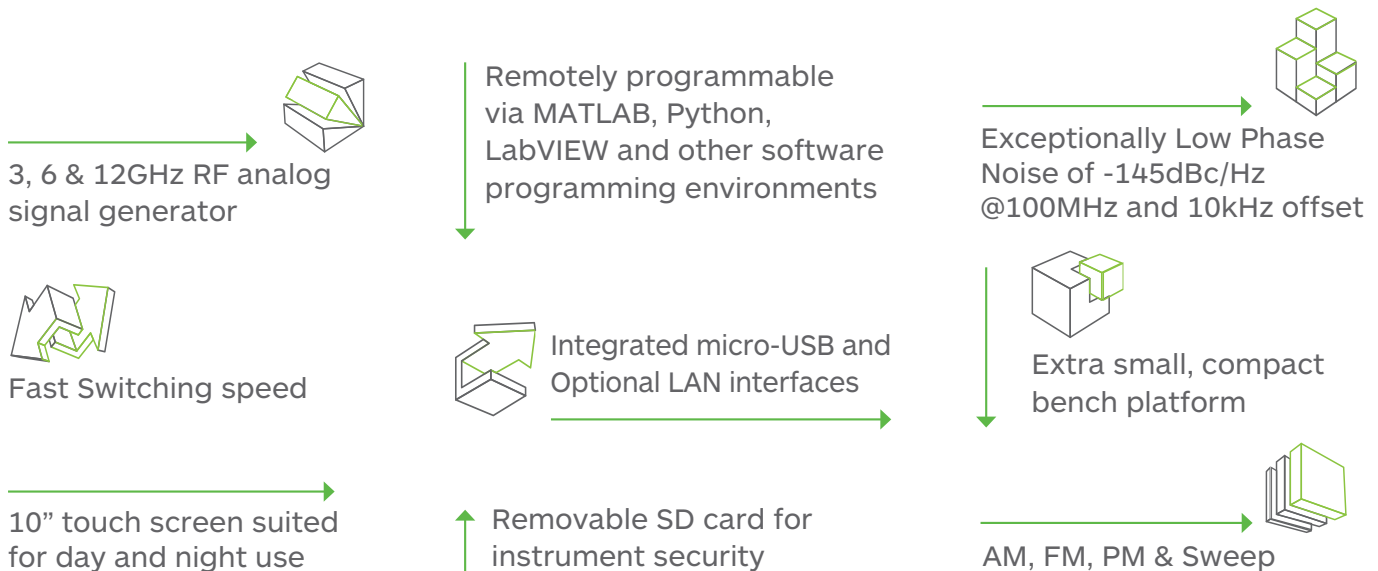


LS3081P/LS6081P/LS1291P-DST

3, 6 or 12 GHz RF Analog Signal Generator



The all-new Lucid Series offers the most advanced features and industry leading performance in the most compact form factor. The series feature 3, 6 and 12 GHz single channel versions, all sharing the very same industry leading highlighted features, in a compact, small footprint modern tablet like design. Featuring superior signal integrity and purity, all the necessary modulated signals for analog communication systems, with built in USB, optional LAN interfaces and removable micro-SD card, the Lucid Series is designed to meet today's most demanding applications, needed from labs through R&D benches to the production lines.



Signal Integrity and Purity

One of the most important requirement in today's testing and measurement applications is high signal quality. With a typical SSB phase noise of -145dBc at 100MHz, and -132dBc at 1GHz, at 10 kHz carrier offset, Tabor's All-New Lucid Series platform delivers one of the best quality signals available on the market today, answering the ever-growing demand for clear and precise signals.

Fast Switching

In today's world, time is a crucial factor, whether in design, on the production floor or inside ATE systems. Tabor's All-New Lucid Series ensures maximum measurements at minimum time, setting the industry's highest throughput standard.

Modulation Schemes

Signal bursts and chirps have become common need in the daily life of any aerospace or defense application. With Tabor's All-New Lucid Series, any modulation is possible, no matter if its AM, FM, PM and Sweep.

Multiple Ways to Control the Unit

Tabor's Lucid Series comes with its own dedicated software to control the instrument functions, modes and features via a graphical user interface (GUI) as well as a complete set of drivers, allowing you to write your application 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.

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Specifications

FREQUENCY		MODULATION		OUTPUTS	
Range:		COMMON CHARACTERISTICS		RF OUT	
LS3081P-DST:	100 kHz to 3GHz	Carrier Frequency:	Full scale	Impedance	50Ω
LS6081P-DST:	100 kHz to 6GHz	Modulation Source:	Internal	Connector type	SMA
LS1291P-DST:	100 kHz to 12GHz	FREQUENCY MODULATION		REFERENCE OUT	
Resolution:	0.001 Hz	Modulation Rate:	1 MHz	Impedance	50Ω
Phase offset:	0.01 deg	Resolution:	0.1% or 1 Hz (the greater)	Connector type	SMA
Switching speed:	500μs	Maximum Deviation:		GENERAL	
FREQUENCY REFERENCE		0.05*f:	(< 1.5GHz)	Voltage:	+12.0 to +12.6 VDC
Temp. Stability:	±100 ppb,	25MHz:	(1.25 to 2.5 GHz)	Supply Voltage::	+15 V DC
Aging:	± 1.25 ppm over 10y	50MHz:	(2.5 to 5GHz)	Power Consumption:	60W max. (45W typ)
Warm up time:	30 min	100MHz:	(5 to 10GHz)	Interface:	
INTERNAL		200MHz:	(>10GHz)	USB Host:	2, type A
Output Frequency:	10/100 MHz	AMPLITUDE MODULATION		USB Device:	1, type B
Output Wave	Sine	Modulation rate:	DC to 100 kHz	LAN (Optional):	1, microUSB
Output Power:	+5 ±2 dBm	AM Depth Linear:	+15 dBm	Dimensions (WxHxD):	28 x 22.5 x 6.5 cm
Reference Mute:	-60 dBm	Max. Settable:	90%	Weight:	
Locking Range:	± 2.0 ppm	Resolution:	0.1% of depth	Without Package:	3 Kg
Output Impedance:	50Ω	Accuracy (1kHz):	< ± 4% of setting	Shipping Weight:	3.5 Kg
EXTERNAL		AM Depth Exponential:		Temperature:	
Input Frequency:	10 / 100 MHz	Max. settable:	40 dB	Operating:	0°C to +40°C
Input Power:	-5 to +10 dBm	Resolution:	0.01 dB	Storage:	-40°C to +70°C
Max. Input Level:	+15 dBm	Accuracy (1kHz):	< ± 4% of setting	Warm up time:	15 minutes
Input Impedance:	50Ω	PHASE MODULATION		Humidity:	85% , non-condensing
Locking Range:	20Hz	Modulation Rate:	1 MHz	Safety:	CE Marked, IEC61010-1:2010
Wave shape:	Sine or Square	Resolution:	TBD	EMC:	IEC 61326-1:2013
AMPLITUDE		Peak Deviation:	300 rad	Calibration:	1 years
Range:	+15 dBm to -60dBm	DIGITAL SWEEP MODE (FREQ. & AMP.)		Warranty:	1 year
Resolution:	0.01 dB	Dwell time:	10us to 1000s	ORDERING INFORMATION	
Power Mute:	-65dBm	Resolution:	1us	MODEL	DESCRIPTION
Output Return Loss:	-10dBm	Number of points:	2 to 65535	LS3081P-DST	3GHz RF Analog Signal Generator
Switching speed:	500μs	Step change:	Linear or logarithmic	LS6081P-DST	6GHz RF Analog Signal Generator
Accuracy (dB):	±0.5 (up to 10dBm)	Trigger:	Continuous, External, Bus, Timer	LS1291P-DST	12GHz RF Analog Signal Generator
PHASE NOISE (dBc/Hz)		INPUTS			
up to 1.5 GHz:	-136 typ (-132 max)	TRIGGER INPUT			
1.5 to 3 GHz:	-130 typ (-125 max)	Connector type:	MMCX		
3 to 6 GHz:	-124 typ (-120 max)	Input Impedance:	50Ω or 10kΩ		
6 to 12 GHz:	-118 typ (-114 max)	Input voltage:	TTL, CMOS		
HARMONICS (dBc)		Damage level:	±5V		
up to 12 GHz:	-40dBc	EXTERNAL REFERENCE INPUT			
NON HARMONICS (dBc)		Connector type:	SMA		
up to 12 GHz:	-60dBc	Input Impedance:	50Ω		
		Waveform:	Sine or Square		
		Frequency:	10/100MHz		