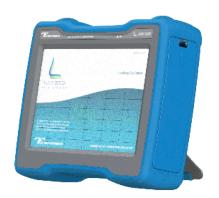


#### LS3081P/LS6081P/LS1291P-DST

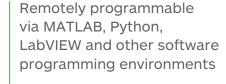
3, 6 or 12 GHz RF Analog Signal Generator

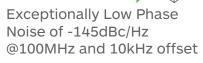


The all-new Lucid Series offers the most advanced features and industry leading performance in the most compact form factor. The series feature 3, 6 and 12 GHz single channel versions, all sharing the very same industry leading highlighted features, in a compact, small footprint modern tablet like design. 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.



3, 6 & 12GHz RF analog signal generator







Fast Switching speed

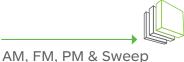


Integrated micro-USB and Optional LAN interfaces



10" touch screen suited for day and night use

Removable SD card for instrument security



## 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.



## LS3081P/LS6081P/LS1291P-DST

3, 6 or 12 GHz RF Analog Signal Generator

# **Specifications**

FREQUENCY	
Range:	
LS3081P-DST:	100 kHz to 3GHz
LS6081P-DST:	100 kHz to 6GHz
LS1291P-DST:	100 kHz to 12GHz
Resolution:	0.001 Hz
Phase offset:	0.01 deg
Switching speed:	500μs

FREQUENCY REFERENCE	
Temp. Stability:	±100 ppb,
Aging:	± 1.25 ppm over 10y
Warm up time:	30 min
INTERNAL	
Output Frequency:	10/100 MHz
Output Wave	Sine
Output Power:	+5 ±2 dBm
Reference Mute:	-60 dBm
Locking Range:	± 2.0 ppm
Output Impedance:	50Ω
EXTERNAL	
Input Frequency:	10 / 100 MHz
Input Power:	-5 to +10 dBm
Max. Input Level:	+15 dBm
Input Impedance:	50Ω
Locking Range:	20Hz
Wave shape:	Sine or Square

AMPLITUDE	
Range:	+15 dBm to -60dBm
Resolution:	0.01 dB
Power Mute:	-65dBm
Output Return Loss:	-10dBm
Switching speed:	500µs
Accuracy (dB):	±0.5 (up to 10dBm)

PHASE NOISE (dBc/Hz)	
up to 1.5 GHz:	-136 typ (-132 max)
1.5 to 3 GHz:	-130 typ (-125 max)
3 to 6 GHz:	-124 typ (-120 max)
6 to 12 GHz:	-118 typ (-114 max)

HARMONICS (dBc)	
up to 12 GHz:	-40dBc
NON HARMONICS (-IR-)	

NON HARMONICS (dBc)	
up to 12 GHz:	-60dBc

MODULATION	
COMMON CHARACT	ERISTICS
Carrier Frequency:	Full scale
Modulation Source:	Internal
FREQUENCY MODUL	_ATION
Modulation Rate:	1 MHz
Resolution:	0.1% or 1 Hz (the greater)
Maximum Deviation:	
0.05*f:	(<1.5GHz)
25MHz:	(1.25 to 2.5 GHz)
50MHz:	(2.5 to 5GHz)
100MHz:	(5 to 10GHz)
200MHz:	(>10GHz)
AMPLITUDE MODULATION	
Modulation rate:	DC to 100 kHz
AM Depth Linear:	+15 dBm
Max. Settable:	90%
Resolution:	0.1% of depth
Accuracy (1kHz):	< ± 4% of setting
AM Depth Exponent	ial:
Max. settable:	40 dB
Resolution:	0.01 dB
Accuracy (1kHz):	< ± 4% of setting
PHASE MODULATION	
Modulation Rate:	1 MHz
Resolution:	TBD
Peak Deviation:	300 rad
DIGITAL SWEEP MO	DE (FREQ. & AMP.)
Dwell time:	10us to 1000s
Resolution:	1us
Number of points:	2 to 65535
Step change:	Linear or logarithmic
Trigger:	Continious, External, Bus, Timer
INDUTE	

INPUTS	
TRIGGER INPUT	
Connector type:	MMCX
Input Impedance:	50 $\Omega$ or 10k $\Omega$
Input voltage:	TTL, CMOS
Damage level:	±5V
EXTERNAL REFERE	NCE INPUT
Connector type:	SMA
Input Impedance:	50Ω
Waveform:	Sine or Square
Frequency:	10/100MHz

OUTPUTS	
RF OUT	
Impedance	50Ω
Connector type	SMA
REFERENCE OUT	
Impedance	50Ω
Connector type	SMA

GENERAL	
Voltage:	+12.0 to +12.6 VDC
Supply Voltage::	+15 V DC
Power Consumption:	60W max. (45W typ)
Interface:	
USB Host:	2, type A
USB Device:	1, type B
LAN (Optional):	1, microUSB
Dimensions (WxHxD):	28 x 22.5 x 6.5 cm
Weight:	
Without Package:	3 Kg
Shipping Weight:	3.5 Kg
Temperature:	
Operating:	0°C to +40°C
Storage:	-40°C to +70°C
Warm up time:	15 minutes
Humidity:	85% , non-condensing
Safety:	CE Marked, IEC61010-1:2010
EMC:	IEC 61326-1:2013
Calibration:	1 years
Warranty:	1 year
± your	

ORDERING INFORMATION	
MODEL	DESCRIPTION
LS3081P-DST	3GHz RF Analog Signal Generator
LS6081P-DST	6GHz RF Analog Signal Generator
LS1291P-DST	12GHz RF Analog Signal Generator