



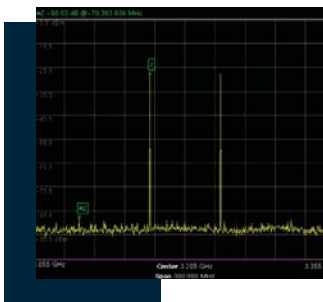
LUCID SERIES

Tabor – Lucid Benchtop - Re-defining Analog Signal Generation

Distribution in the UK & Ireland



If you require multiple signals for characterizing components such as amplifiers, mixers and ADC's or want to drive multiple LO's with excellent phase coherence for multiple antenna systems – the new Lucid Benchtop family of multi-channel signal generators provides a cost effective, compact solution. With up to 4 channels of signal generation capability in a 2U, 1/3rack mount form factor it re-defines analog signal generation.



Two-tone measurements using two phase aligned Lucid Benchtop channels

The Benchtop version of the Lucid series offers up to 12GHz of frequency range, 4 phase coherent channels, a 5" touch display front panel, plus remote interface control and compatibility with MATLAB, LabView and Python. The Lucid Benchtop also comes with no front-panel control in 19" rackmount formfactor.

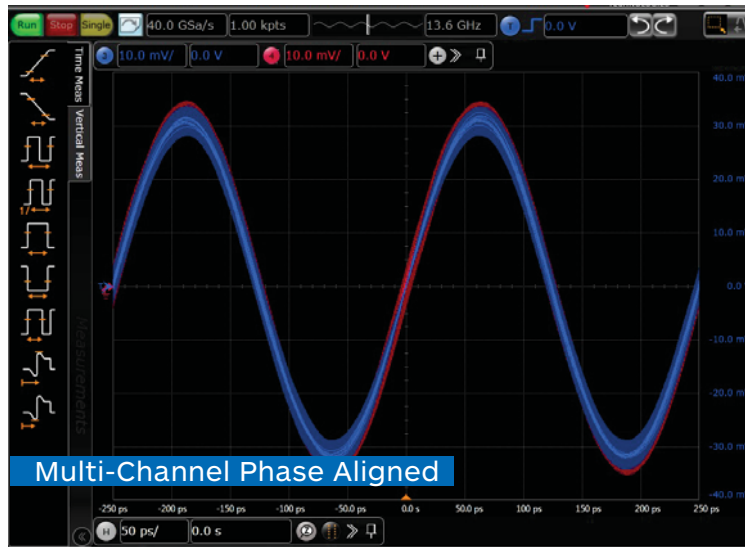
Key Performance Specifications

Channels	1, 2, 4	Min Power	-20dBm, -130dBm, -150dBm
Max Frequency Range	3GHz, 6GHz, 12GHz	Phase Noise 1GHz/10kHz	-138dBc/Hz
Switching Speed	up to 100us	Harmonics/Sub Harmonics	-50dBc/-55dBc
Max Power	+15dBm, +27dBm	Non-Harmonics/Spurs	-60dBc/-90dBc

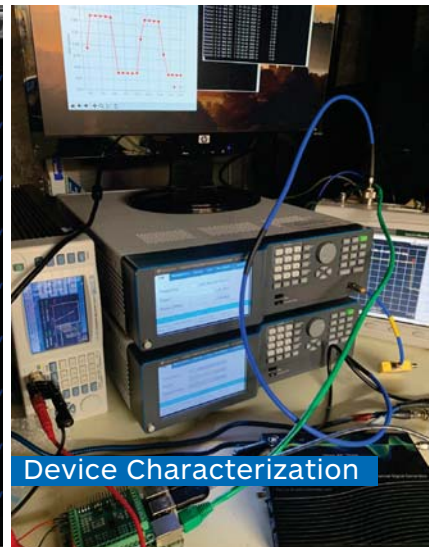
Each Lucid has the capability to perform AM/FM/PM and Pulse modulation and the Benchtop units have extended power capability from +27dBm to -130dBm / -150dBm.



Local Oscillator (LO)



Multi-Channel Phase Aligned



Device Characterization

Output Power

Each channel has +15dBm standard or +27dBm optional, providing the LO drive power required.

Precision Phase Alignment

This plot shows negligible phase alignment/drift over 14 hours - Each channel is phase coherent and channel to channel phase id fully adjustable.

Excellent Spectral Purity

-50dBc harmonics and spurious performance between -60dBc/-90dBc and phase noise of -138dBc/Hz it has the performance for device characte

Benchtop Product Configuration SG - LUCID Series

Model	Description
LS3081B	3GHz Single Channel Signal Generator
LS3082B	3GHz Dual Channel Signal Generator
LS3084B	3GHz Four Channel Signal Generator
LS6081B	6GHz Single Channel Signal Generator
LS6082B	6GHz Dual Channel Signal Generator
LS6084B	6GHz Four Channel Signal Generator
LS1291B	12GHz Single Channel Signal Generator
LS1292B	12GHz Dual Channel Signal Generator
LS1294B	12GHz Four Channel Signal Generator
option	
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

