

CIELO™ Mockingbird Software: Radar Waveform Toolbox

MOCKINGBIRD SOFTWARE DEFINED RF TEST SYSTEM

Mockingbird RF Test System is a rugged, software defined RF test system, providing emulated RF scenes, arbitrary RF waveform generation, spectral analysis, and signal capture enabling rapid indoor lab and outdoor field testing with the simplicity and efficiency of a software simulation.

MOCKINGBIRD RADAR WAVEFORM TOOLBOX

The Mockingbird Radar Waveform Toolbox is an optional software toolbox that extends the built-in capabilities of the Mockingbird RF Test System. The Radar Waveform Toolbox provides the ability to emulate various radar waveforms. Pulsed waveforms include CW (continuous wave), chirp or LFM (linear frequency modulation), stepped frequency and PSK (phase shift keyed). For all pulsed waveforms, the user has the ability to set the Pulse Duration (PD) and Pulse Repetition Interval (PRI). Traffic patterns can be added to specify the ON time and OFF time in number of pulses.



WAVEFORM	DESCRIPTION
Pulsed Continuous Wave (CW)	CW tone transmitted each pulse duration.
Pulsed Linear Frequency Modulation (LFM)	Frequency Sweep or Chirp signal transmitted each pulse duration. User specifies the chirp bandwidth or sweep range.
Pulsed Stepped Frequency	Stepped Frequency signal transmitted a CW tone each pulse that steps through the configured frequency list.
Pulsed Phased Shift Key (PSK)	Transmits a PSK modulated code word each pulse duration. Several options for code words, as well as user defined.

ABOUT SYNCOPATED

Syncopated is a creative provider of custom products and solutions for cognitive radio and edge analytic acceleration. Our solutions enable you to start further down the development path, reducing time-to-market and allowing you to focus on your innovative solution. Unlike most vendors, customization of our products for your specific needs is embraced not discouraged.

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