

RADAR ENVIRONMENT SIMULATOR SPECIFICATIONS

SCENARIO	
Targets in Scenario	Up to 500
Targets in Beam	up to 16
Jammers in Scenario	Up to 12
Jammers in Beam	Up to 4
Chaff in Scenario	Up to 12
Chaff in Beam	Up to 4
Weather in Scenario	Up to 4 cells
Weather in Beam	Up to 2
Ground/Ship Clutter	Downloadable 360° Clutter Definitions
Airborne Clutter	Dynamic MLC, SLC, and ALR
TARGET FIDELITY	
Mean RCS Value	0.001 to 1,000,000m ²
3-D RCS Patterns	± 180° EL, ± 90° AZ, ± 30 at 0.25dB Resolution
Scintillation	Swerling Cases 0-4 +User Defined
Geometry	6 (DOF)
Jamming Assets	Combination Coherent and Non-Coherent and Chaff
Target Modulations	User Definable Modulations for JEM, Blade, etc. Aspect Angle Dependant

SIGNAL FIDELITY	
Frequency Range	SUT Dependent-VHF to W Band
Antenna Types	Mechanical, Electronic, Combination
Waveform Types	CW, Pulse, Phase Coded, FM (Linear & Non-Linear)
Pulse Width	50ns to CW
RFI	<10Hz to >5MHz
Spurious	<65 dBc typical Up to <-60dBc worst case
Dynamic Range	>120db
Amplitude Resolution	0.25 dB
RF ON/OFF Isolation	100db
Doppler Range	>+5 MHz
Doppler Resolution	<0.1 Hz
Range	50m to 1500km
Range Resolution	<0.3