

The NinjaTM GNSS interference and spoofing lab

Reference Station Receiver Data	Generator	
Reference receiver coordinates:	Absolute Relative	Off Sky Chart
RR1: Lattitude: 42.49798	RR2: Latttude: +42.49882 Latttu	RR4:
Longtude: 143.43493		tude: + 143.43343 Longitude: + 143.43378
Altitude: 42.19	Attude: 41.97 Attud	le: + 42.62 Attude: + 42.49
othing: 0.00	Northing: \$500.00 Northing	ing: + 500.00 Northing: + 0.00
ng: 0.00	Easting:	rg: 0.00 Easting: 900.00
0.50	"Up: ' ' ↓ 0.50 ' ' Up:	Interference lab
ssk angle: 🛓 10	. Mask angle: 🔹 10 Mask	a Noise Type: White noise
tput raw data and event files:	C:\JRX\LAAS\vs1.srv	Sinewave Frequency [MHz]
RV (Raw data)	C:\IRX\LAAS\rs1.srv	
pare events	C:\IRX\LAAS\rs3.srv	GPS single PRN 1 Frequency offs
	C:\IRX\LAAS\vs4.srv C:\IRX\LAAS\ev1.csv	GPS costellation Delay [ms]
	C:\IRX\LAAS\ev2.csv	Simulated position: Simulated tir
	C:\IRX\LAAS\ev3.csv C:\IRX\LAAS\ev4.csv	Lat (deg): (25.0000) . Date: .2
	C. VIDA 12/VID 18/44.05V	At (m): + 50.00

Overview

The Ninja TM is a GNSS RF simulator with advanced capabilities to simulate various interference and spoofing signals.

Features

All features of a high-end GNSS RF simulator.

Separate spoofing/interference and noise (SIN) output.

Four CRPA outputs.

Spatially correlated outputs to support CRPA or LAAS simulation.

Wide and narrow band interference

Pulsing

Meaconing simulation.

Simulation of single or multiple spoofers.

Simulation of dynamic user.

API

ANSI C API allows modification of existing models or implementation of custom models for interference or spoofing simulation.

