

AWSG COMPACT

Hand-portable single-channel GNSS waveform generator for CRPA and anti-jam development testing.



Purpose

Portable GNSS-band waveform generation for controlled CRPA and anti-jam development testing. Intended to complement established laboratory, chamber, wavefront and formal qualification methods.

Waveform profiles

Non-Stationary Random	Pseudo-random frequency, dwell and amplitude variation for repeatable evaluation of adaptive processing and AGC behaviour.
Fast Wideband Sweep	Rapid swept-frequency profile for observing adaptive response as interference conditions change.
CW Tone	Controlled single-frequency output for baseline and comparative testing.
Linear Ramp	Controlled frequency-ramp profile for time-varying spectral test scenarios.
Adaptive Cycling	Automated cycling between defined waveform profiles for repeatable stress-testing.

Preliminary specifications

Channels	1 - standalone, self-contained
Frequency	1100-1650 MHz
GNSS bands	GPS L1/L2/L5; GLONASS; Galileo; BeiDou bands within stated frequency range
Output power	-10 to +10 dBm, adjustable
Waveform modes	5 selectable profiles, P1-P5
Mode switch	<500 ms on selector change
Power	Integrated battery; target 1-2 hr; USB-C charging
Control	Laptop pre-configuration over USB-C; standalone front-panel selection
Enclosure	CNC 6061-T6 aluminium; target IP54
Dimensions / weight	Approx. 170 x 65 x 38 mm; target <400 g

Designed for individual engineering benches, integration work and portable test setups.

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Specifications are preliminary and subject to finalisation. Export supply is subject to applicable UK export-control and end-user requirements.