

AWSG FIELD

Four-channel rugged GNSS waveform generator for multi-channel 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	4 independent; 1-4 operator-selectable
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 per channel
Waveform modes	5 profiles; independent channel configuration
Mode switch	Target <1 ms
Power	100-240 V AC plus integrated battery; target 4 hr+
Control	Laptop USB; K9 DMS Control software
Enclosure	Rugged carry case; target IP54
Dimensions / weight	Approx. 500 x 380 x 200 mm; target <8 kg including battery

Designed for multi-channel development and platform-integration test work.

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