forceeffect

PRODUCT DATASHEET

PARALLAX



GNSS denial and deception training, without radiating a thing.

OVERVIEW

Modern battlefields are jammed but training areas aren't. PARALLAX injects real jamming and spoofing signals into a platform's GNSS, so forces can train for it, without jamming over-the-air.

Plan the exercise in the scenario builder by laying down virtual jammers on the map and setting their schedule. Each PARALLAX knows where it is and sets its jamming power to match, so a platform heading towards a jammer sees its GNSS get steadily worse. Run every unit from one laptop, or hook into exercise management through the API.

AT A GLANCE

- **Map-based scenario builder**
- **RF-modelled jamming**
- **No radiated emissions**
- **Degrade, jam and spoof**
- **Any receiver, any platform**
- **Exercise-wide Web UI and API**
- **Proven with NATO forces**

HOW IT CONNECTS ON A PLATFORM



GNSS Antenna
Receives real satellite signals

PARALLAX
Injects controlled jamming inline, combining with the live satellite signal

GNSS Receiver
Receives the degraded or denied signal

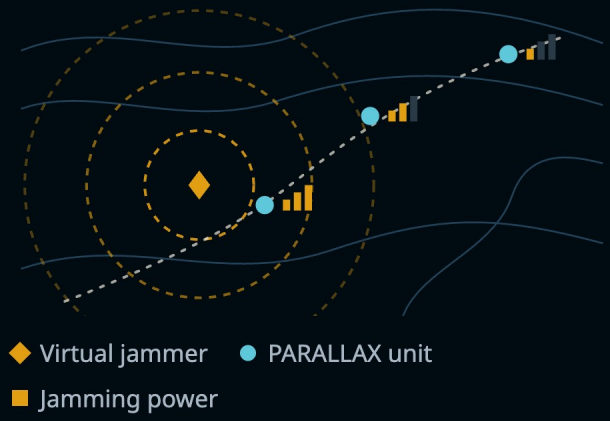
Arrange a demo: contact@forceeffect.co.uk · **Find out more:** forceeffect.co.uk/parallax 10-000-0072-00 Rev A.1

How it works

KEY CAPABILITY

Scenario Builder

Lay down virtual jammers on the map, set their power and waveforms, and schedule when each one is active. Each PARALLAX knows where it is and calculates what every jammer would do to its receiver, so a platform heading towards a jammer sees its GNSS get steadily worse.



Inline Jamming

Sits inline between antenna and receiver and works with any GNSS receiver on any platform, with no integration or modification. No radiated emissions means no need to notify air traffic control or file regulatory paperwork.

Spoofing Capable

Generates spoofing signals on-device or replays IQ files, so forces can train against deception as well as denial. Adds a realistic electronic warfare dimension beyond simple jamming.

Dual Waveform

Generates two independent jamming waveforms simultaneously. Each channel is individually configurable for frequency, power and waveform type, covering any GNSS channel on any constellation.

Exercise-wide Management

Run up to 1,024 PARALLAX units from one laptop through the Web UI, or hook into exercise management through the API. See status, location and schedules for every unit in real time, and override waveform, frequency and power on the fly.

Specifications

Frequency coverage	**1100–1700 MHz**
Jamming channels	**Two - up to 30 MHz each**
Max RF output	**0 dBm nom.**
Effects	**Degrade, jam, spoof**
Spoofing source	**IQ file or on-device**
Constellations	**Any GNSS**

Radiated emissions	**None**
Control	**Web UI or API**
RF connectors	**SMA**
Power	**11–32 V DC, 15 W**
Dimensions	**190 × 175 × 52 mm**
Mass	**1.72 kg**

PARALLAX is controlled under the UK Military List, entry ML11.b. Export from the UK requires a licence. Supplied only to government and defence customers and other approved end-users. Specifications are subject to change without notice.