SIGNAL REAPER

SYSTEM DESCRIPTION

SIGNAL REAPER is a modular RF detection and countermeasure system designed for seamless integration. It automatically detects, classifies, and suppresses hostile signals with high precision, enabling real-time control.

The system consists of two units:

1. **The Scanner - detects enemy drones and sends a command to the Frequency Generator Control Unit, to activate the related radio-electronic warfare system.**
2. **The Frequency Generator Control Unit (FGCU) - responsible for receiving commands and activating jammers on the specified frequency.**

SIGNAL REAPER is a fully Ukrainian development:

- **No Chinese components are used in the system.**
- **All parts are vetted, certified, and manufactured under modern defense standards.**
- **No hidden backdoors or embedded threats**
- **Full supply chain control**
- **Compliance with NATO compatibility and security requirements**
- **Support for the Ukrainian defense industry**

COMMUNICATION

The system consists of the Scanner and the Frequency Generators' Control Module (FGCM) for electronic warfare units.
The Scanner is an autonomous device designed to detect unmanned reconnaissance and engagement assets of the enemy.

The FGCM is a module that is could be installed in any electronic warfare system, expanding its capabilities.

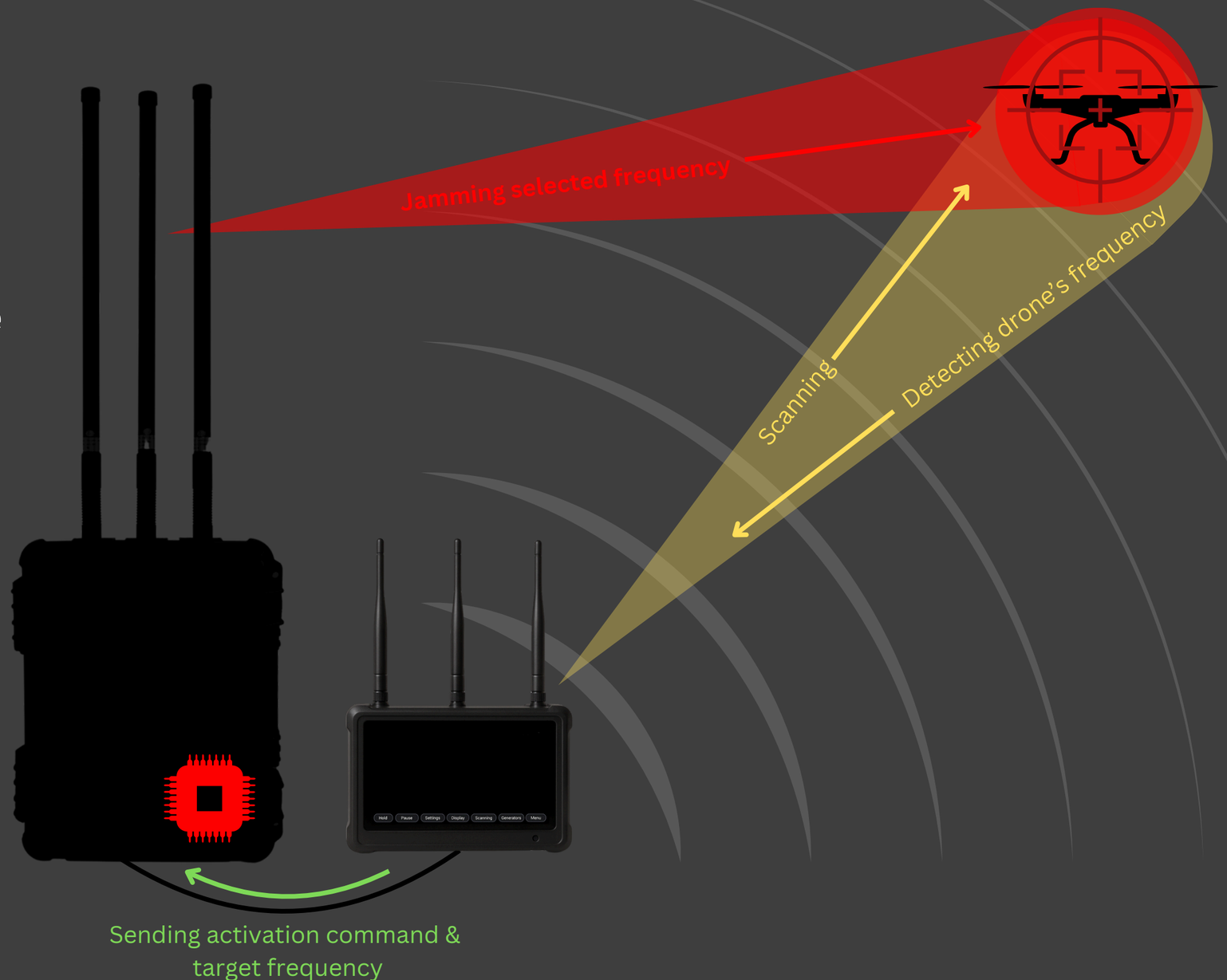
The FGCM works in tandem with the Scanner, allows for automation and increased efficiency of electronic warfare systems.

Wireless or wired communication options

AUTOMATIZATION

The Scanner has the ability to connect to electronic warfare systems via electronic unit.

This allows automatize constant monitoring of signals, and when an enemy drone is detected, the scanner sends a signal to the electronic warfare system to activate the required frequency and suppress the enemy signal.

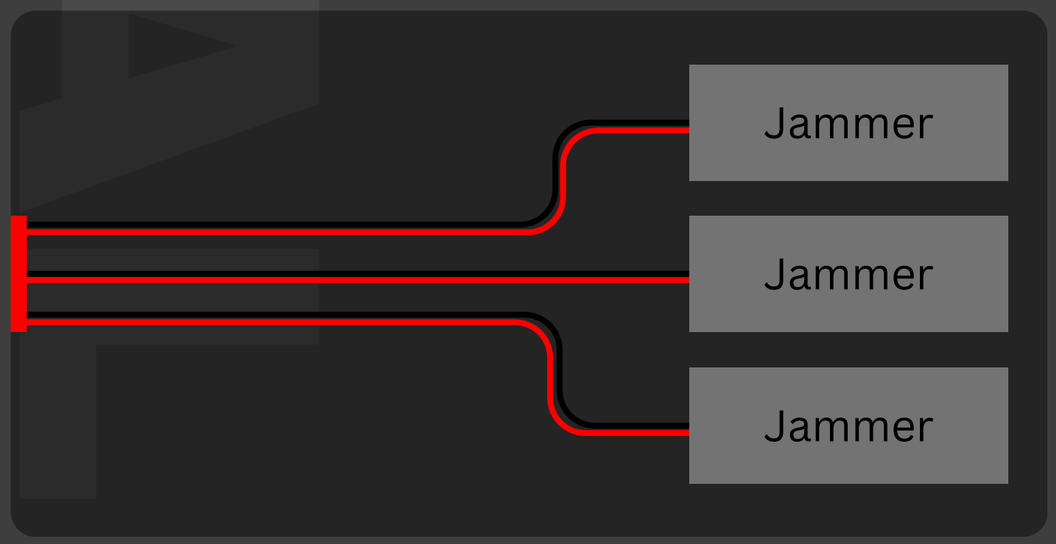


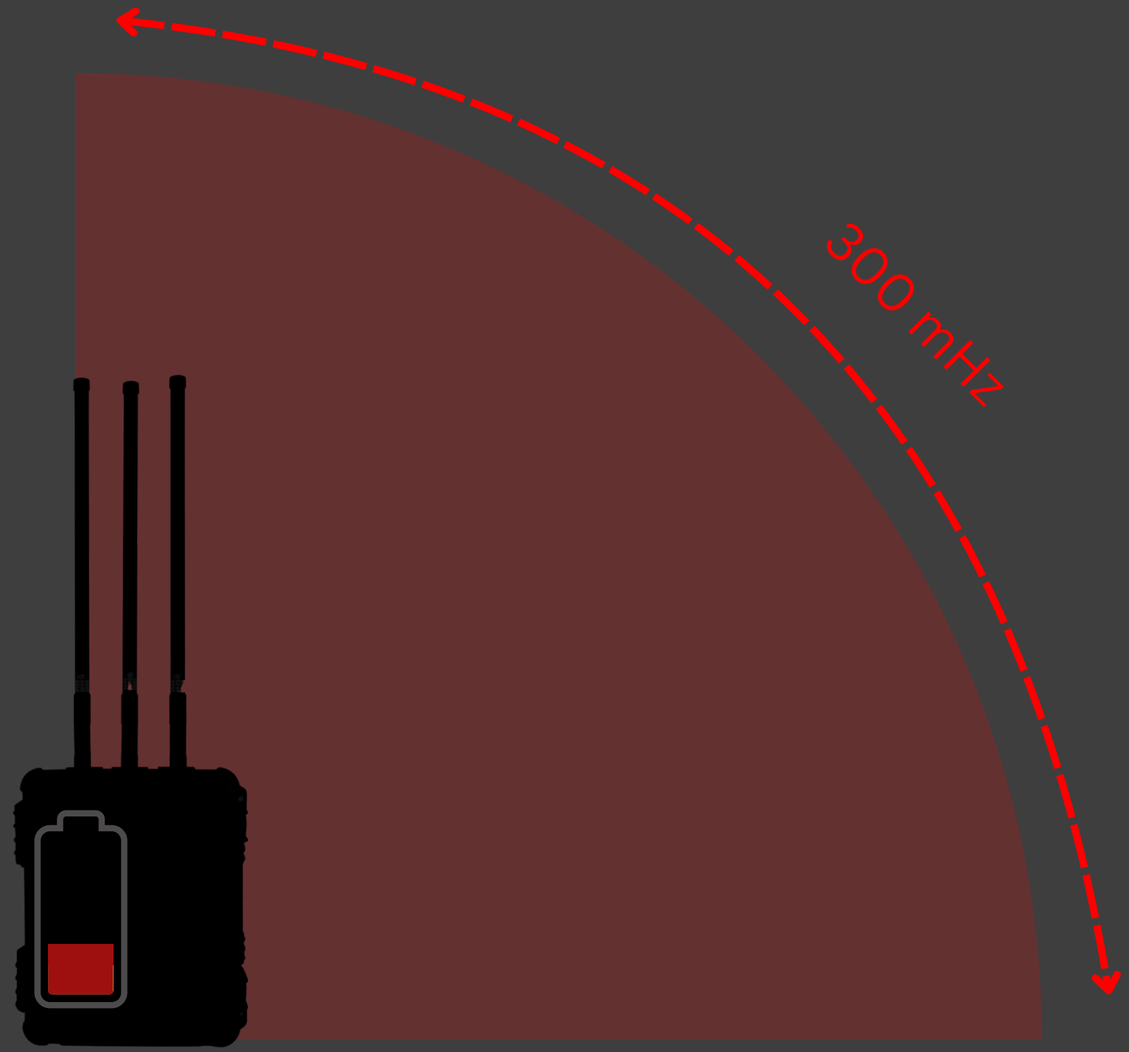
CURRENT GENERATION

At the moment, jammers are used in the vast majority of electronic warfare systems. The current doctrine of using electronic warfare implies suppression of the maximum frequency range, in the absence of a specific frequency from which a threat emanates.

Main disadvantages:

- **Indiscriminate suppression of frequencies**
- **High energy consumption & Low efficiency**
- **Quick depletion of equipment resources**
- **Visibility for enemy electronic reconnaissance**



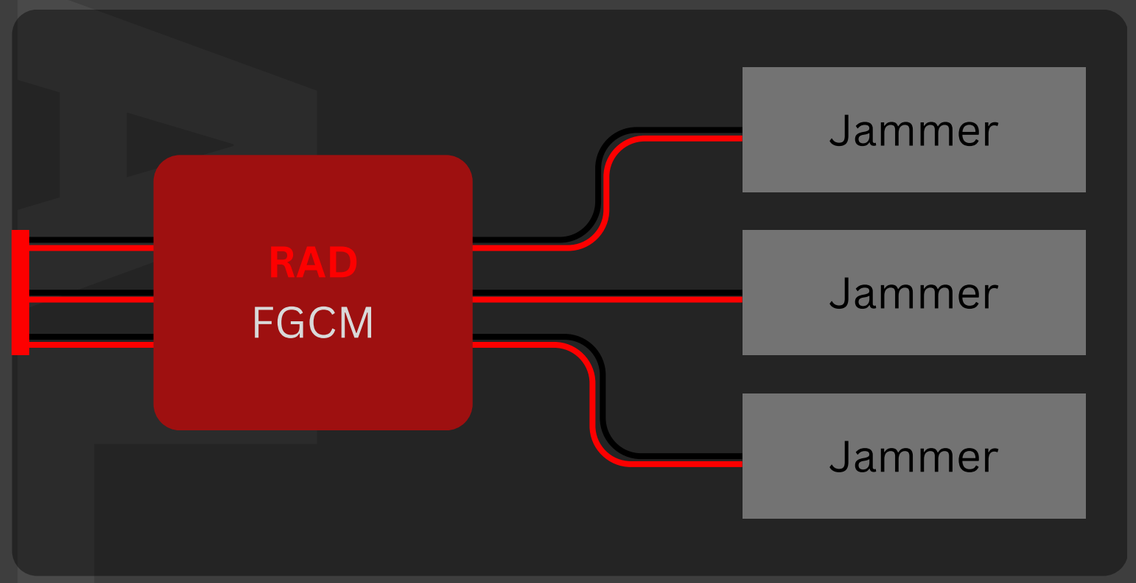


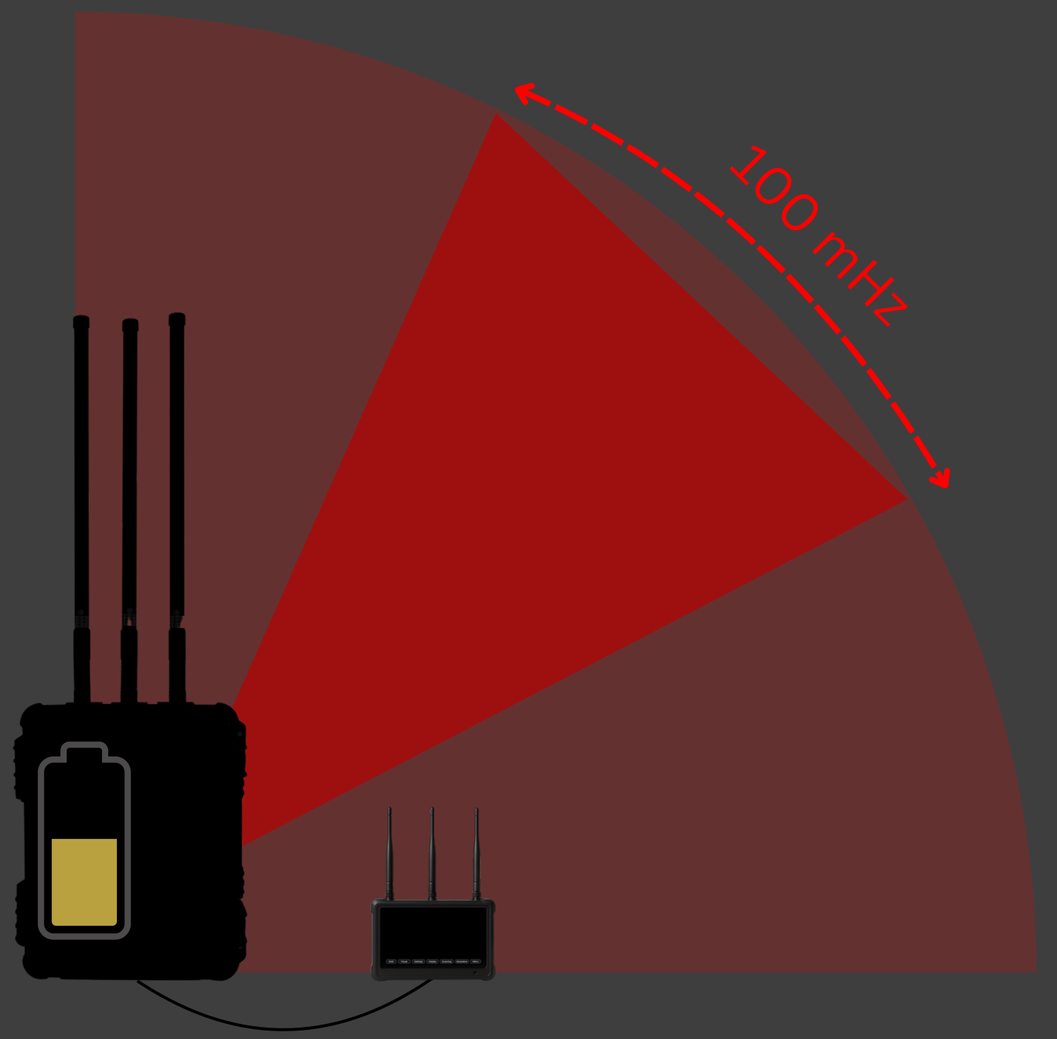
0-DAY SOLUTION WITH RAD SCANNER

Today's solution is to use the Scanner, which allows you to control each jammer separately and use selective jamming of dangerous frequencies.

Main features:

- **The suppression range is narrowed to the width of the jammer range**
- **Less energy consumption and resourcefulness**



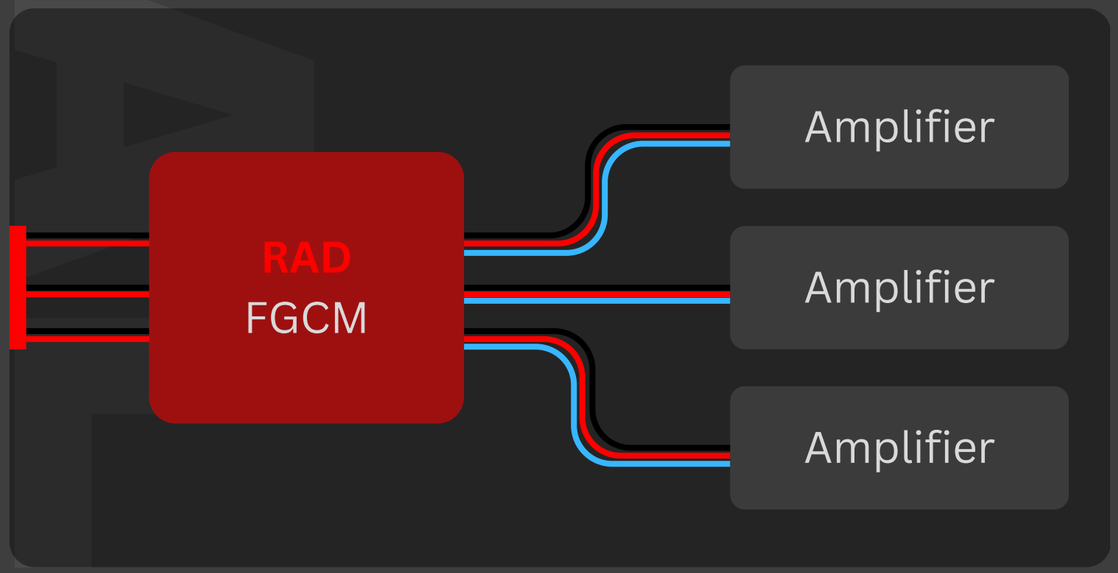


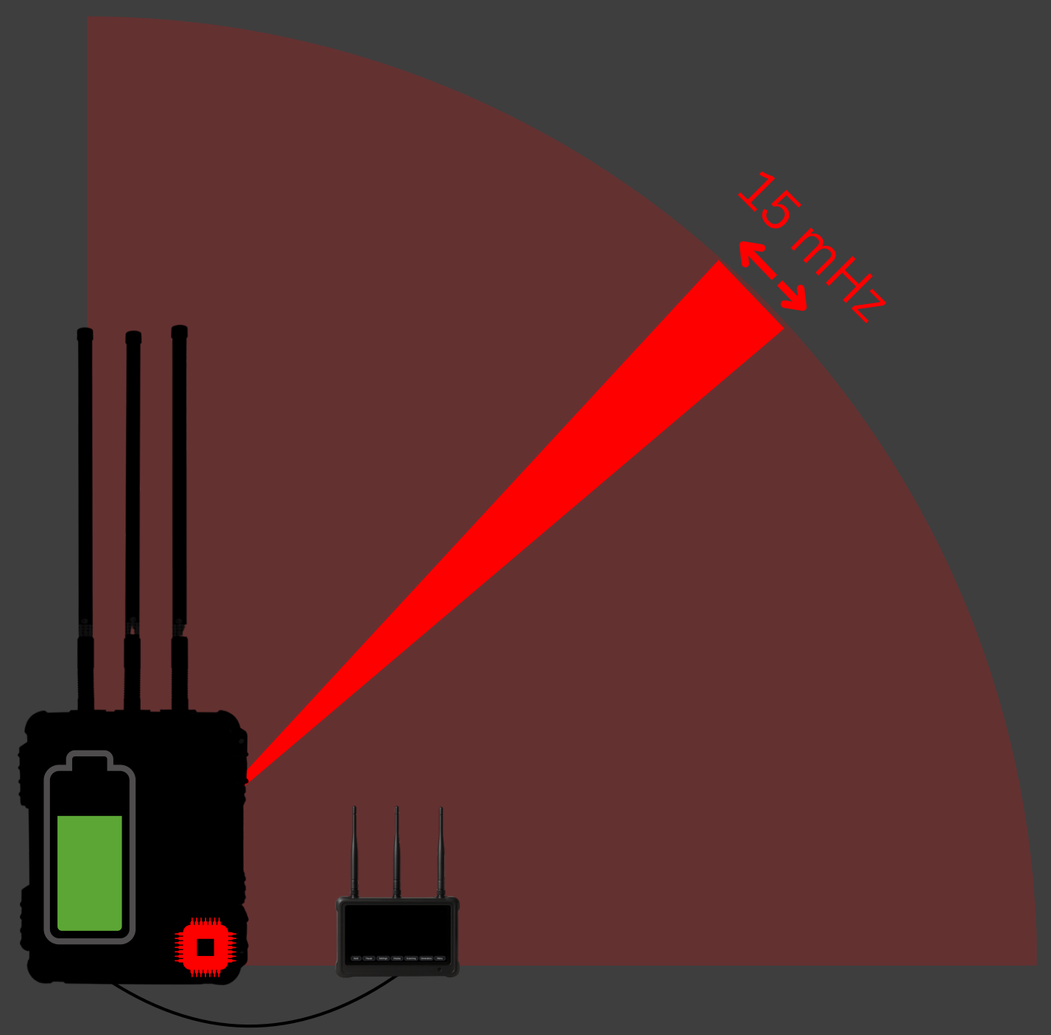
NEXT GENERATION
RAD REAPER

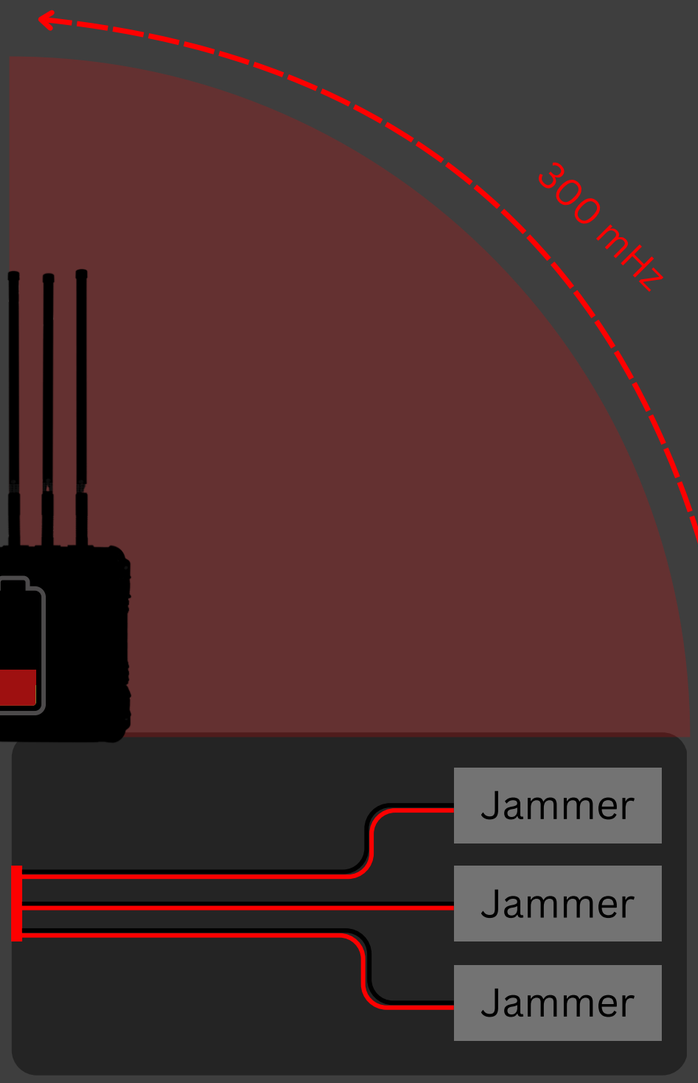
The future of the electronic warfare sphere is the use of the Reaper system with generation REWs, such as RAD v.2, which use amplifiers instead of generators (jammers).

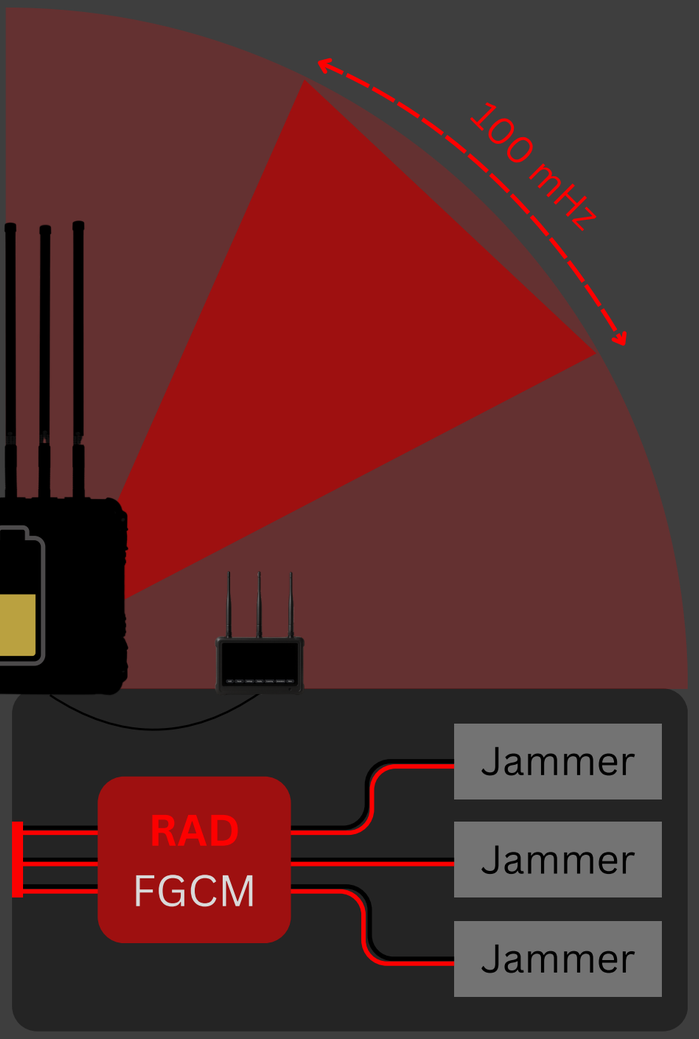
Main advantages:

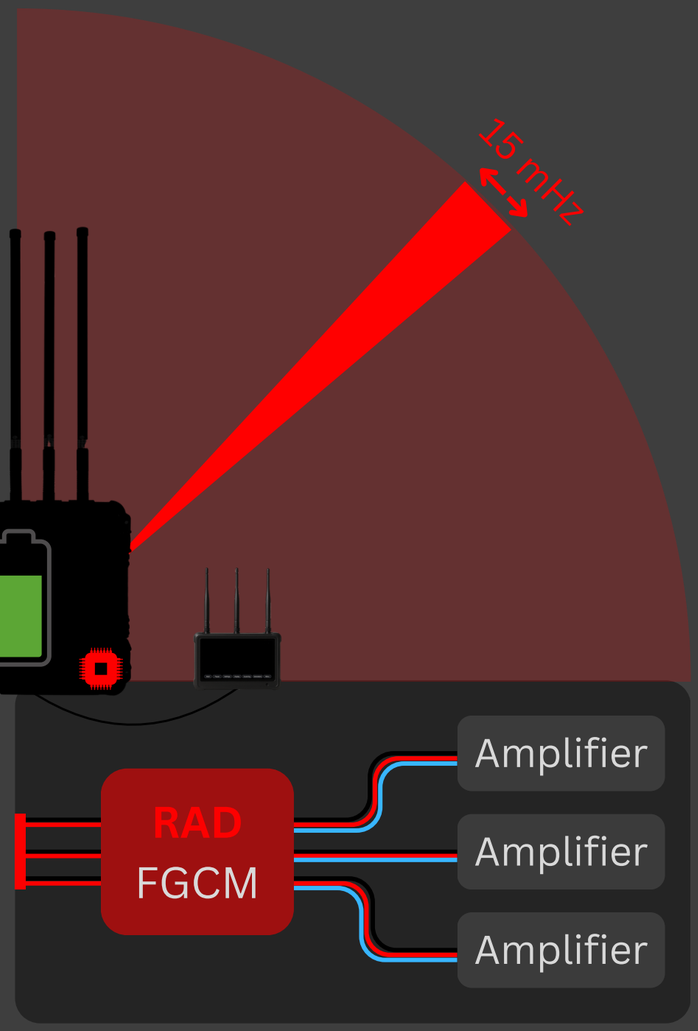
- **Narrow suppression range, selected in accordance with the control frequency of enemy weapons**
- **High efficiency, and 20 times lower energy consumption & resource intensity, compared to a current gen. EW system**
- **Low visibility for electronic reconnaissance**











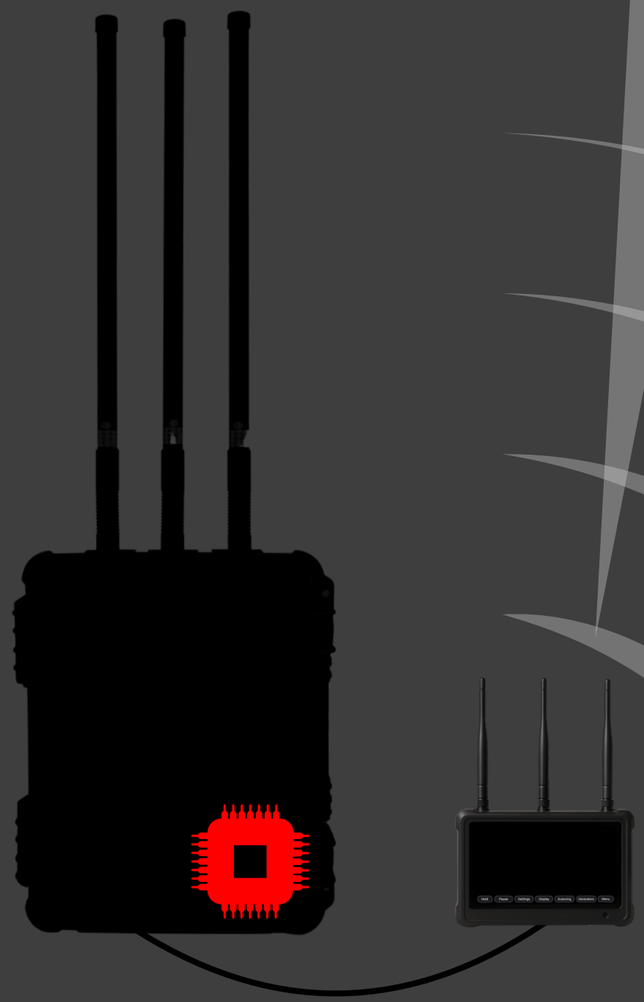
CURRENT GENERATION

RAD SCANNER

RAD REAPER

MULTI-TARGETING

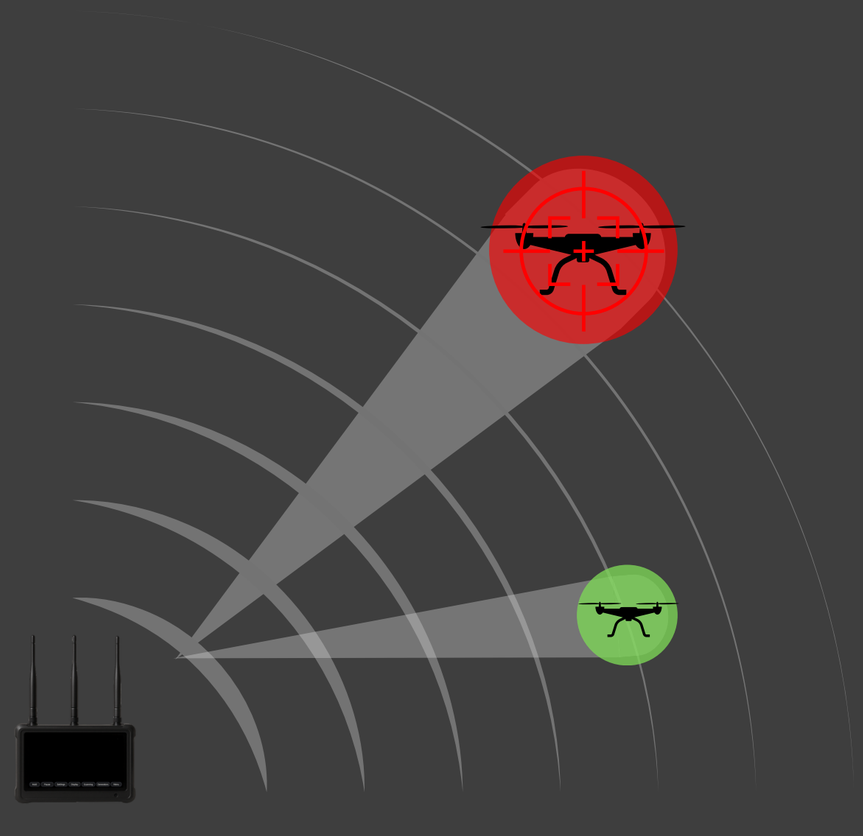
The Scanner provides target designations and tracks for unlimited targets simultaneously.



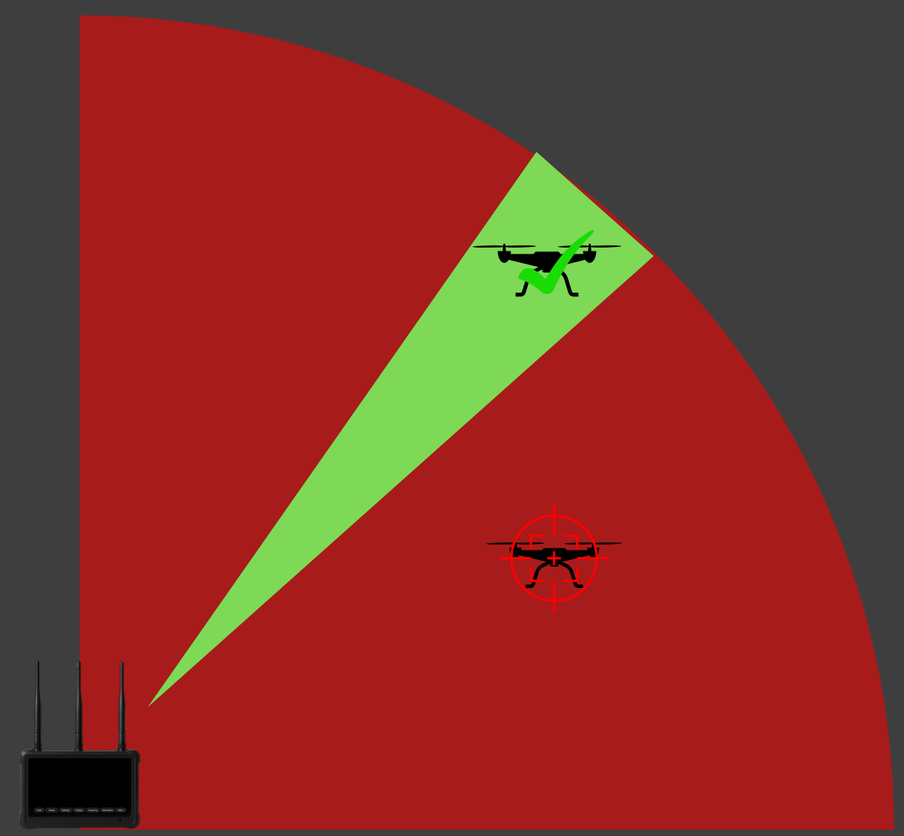
FRIEND-FOE RECOGNITION

The Scanner has several options for the friend-or-foe system:

1. **You can set specific frequencies that the scanner will perceive as friendly drones.**
2. **You can set a frequency range (corridor) for friendly drones.**



Option 1



Option 2

VERSATILITY

The Frequency Generator Control Module (FGCM) is compatible with all existing electronic warfare systems, which ensures its wide application without the need to replace the equipment base.

SPECIFICATIONS

Ranges:
200-6000 mHz

Shockproof enclosure:
IP54

Detection range:
up to 1000m

Battery life:
up to 72 hours

REW control:
780+ generators

Target designation:
Unlimited targets