

DYNAMO – PERSONAL COUNTER-RCIED SYSTEM

A personal protection device to safeguard against radio-controlled improvised explosive devices (RCIEDs)

In military, first responder, police tactical response, humanitarian response and security applications where personnel are operating in austere and high-threat environments, Dynamo can be deployed as a quick and easy protection device. Simply put, Dynamo can save lives.

THE ADVANCING THREAT

Attacks by insurgent and terrorist groups have grown increasingly sophisticated over the last 15 years. Terrorists favour IEDs because of their proven ability to inflict mass casualties, destroy property, cause fear and disruption and attract media attention.

RCIEDs can be assembled with relative ease and used remotely. The ability to design and deploy these against a range of targets from troop convoys, forward operational bases, sports stadiums and concert venues as well as against VIPs, has grown exponentially.

The range of devices that can be used to initiate an attack has spread across the electronic spectrum requiring a high level of electronic counter measures to neutralise the threat.

For military, humanitarian organisations and security personnel operating in hostile and hazardous environments, where there is a known threat of RCIED attacks, a high quality, reliable system to counter this threat is a vital piece of equipment to protect the lives of at-risk personnel.

THE SOLUTION

Dynamo is a personal electronic counter measures (ECM) system from L3Harris, designed to meet this requirement. The system is inexpensive, has a low size, weight and power (SWaP) profile and requires little training to operate.

The light-weight personal device provides a reliable, simple solution to protect personnel on the move from the threat of RCIEDs.



KEY FEATURES

- > Lightweight and mobile (approximately 1 kilogram)
- > Simultaneous multi-band protection
- > Easy to operate and maintain
- > Runs for over 2 hours plus interchangeable battery packs
- > Region configurable
- > 12 month warranty

APPLICATIONS

- > Military
- > First responders
- > Police tactical response
- > Private security
- > Oil and gas
- > Mining
- > Not for profit aid organisations



RCIEDs can be built relatively easily and cheaply using readily available components and triggered by devices such as mobile phones. This has led to them becoming a common, and often preferred, weapon for adversaries, posing a very real and evolving threat to military and security personnel.

A SINGLE SYSTEM SOLUTION SOLUTION FOR MULTIPLE APPLICATIONS

The dangers of RCIEDs are not confined to the battlefield. They are an issue for every country, a threat to anyone, anywhere at any time. Therefore the ability to have a layer of protection from an RCIED for the dismounted soldier, border patrol, police, security services and first responders, can mean the difference between life and death. Dynamo provides this layer of protection, offering an ultra-compact, lightweight and reliable solution to enable confidence and freedom of manoeuvre for personnel.

As the device is intuitive to operate with a low SWaP profile, it's suitable for a wide variety of personnel acting in austere environments, from private security professionals and first responders to high-end special operations users. Due to the consumable and inexpensive nature of Dynamo, it is more accessible than alternative counter-RCIED systems on the market, enabling those with fewer resources and available budgets to protect themselves against the RCIED threat.



PROTECTING FORCES ON THE GROUND

Dynamo creates an electronic force protection zone around the person carrying the device. At approximately 1 kilogram, its low SWaP profile means it's an agile, convenient system for personnel on the move.



PROTECTION FOR POLICE AND FIRST RESPONDERS

RCIEDs pose a serious threat to daily operations of emergency responders in high-threat regions even when conducting routine response activities. Dynamo can provide a cost effective everyday solution to protect those at risk.

CONCEPTUAL TECHNICAL SPECIFICATION

Dynamo – personal counter-RCIED system

Dynamo is currently in development. Specifications shown here are planned only. The final product may vary slightly from these specifications. L3Harris reserves the right to amend specifications in the light of continuing development.

TECHNICAL SPECIFICATIONS	
Dimensions	130mm x 75mm x 50mm (excluding antenna)
Weight	~1 kg with battery pack
TECHNICAL SPECIFICATIONS	
Bands	<p>A single Dynamo system can be configured by L3Harris to operate across:</p> <ul style="list-style-type: none">• GSM• UMTS• LTE• IMT• ISM Bands 1 and 2• VHF and UHF bands
Power	<p>Max 2 x 10W power output; Actual power output optimised for SWaP-C vs maximised threat inhibition</p> <p>Battery; Removable and rechargeable battery packs for quick changeover Compatible with a range of battery options including the L3Harris 12041 battery Standard battery pack: 2+ hours Extended battery pack: 4+ hours</p>
Configurations	Please contact L3Harris for currently available variants.



TECHNOLOGY LEADERS

AUSTRALIAN INNOVATION TO PREVENT THE EVENT

Dynamo is expertly engineered by L3Harris Micro, an Australian-based subsidiary of L3Harris Technologies, Inc., the agile global aerospace and defence technology innovator. Micro is the Australian partner of choice for sovereign design and manufacture of high-reliability electronic warfare subsystems using wideband RF technology to detect, guide and protect, achieving spectrum dominance in extreme operating environments.

As a trusted design and production partner to the Australian Department of Defence and exporter to global defence primes, we provide faster times to market and lower costs through utilising revolutionary technology.

We have highly skilled personnel operating in fully equipped and security cleared production facilities set up to produce high-volume, rugged electronics hardware.



GET IN TOUCH

To find out more about Dynamo and discuss your requirements, please contact your local L3Harris representative or visit [L3Harris.com/Dynamo](https://www.l3harris.com/dynamo)

OPERATIONAL FACILITIES

- > Fully equipped production facility in Brisbane, Australia
- > Class 8 clean room facilities (1300 square metres)
- > Supply chain expertise and facilities for high volume manufacturing
- > Security cleared facilities and staff

QUALITY STANDARDS

- > AS9100D accredited
- > ISO9001:2015 accredited
- > IPC-A-610 Class 3
- > IPC-J-STD-001 Class 3
- > MIL-STD-883

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across space, air, land, sea, and cyber domains.



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