



KESTREL

Lightweight, Software Configurable, Jamming System

SPECIALIST DESIGN THROUGH INNOVATION AND TECHNOLOGY

Radio Controlled Improvised Explosive Devices (RCIED) account for the largest proportion of military and civilian casualties in today's modern asymmetric warfare environments. Combining accurate threat analysis with sophisticated technical solutions provides a genuine counter to the enemy's RCIED threat.

KESTREL is a flexible-role lightweight jamming system designed for easy deployment. The system can be rapidly deployed and programmed for use in the Force Protection man-pack patrol role. It can also be utilised by Explosive Ordnance Disposal (EOD) operators in the manual carry forward Improvised Explosive Devices Disposal (IEDD) role or in the remote carry forward role utilising a Remote Controlled Vehicle (RCV).

The KESTREL design utilises sophisticated Direct Digital Synthesis (DDS) technology to provide a flexible programmable power efficient solution. The KESTREL architecture allows for rapid mission programming in demanding flexible threat environments.

The Kestrel jamming system is fully integrated and includes a battery docking interface compatible with LIPS5 Lithium Ion battery (with an option for LIPS9 battery) to provide fully autonomous operation in excess of 4 hours.

The 'Kestrel' is equipped with an integral GPS antenna that can be removed for vehicle mounting applications.

The integral fan provides active and effective cooling for sustained operations in high temperature operational theatres.



Other features that are included in the Kestrel:

- Wide band output: 20 to 520MHz
- Weighs less than 3 kg (not including battery & antennas)
- Integral diplexer
- Graphical Hand Held controller for system interrogation
- Membrane control panel

**DESIGNERS AND MANUFACTURERS OF RF
& MICROWAVE COMMUNICATION SYSTEMS**





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OUTLINE SPECIFICATION

Frequency Coverage:

Kestrel Alpha - Single channel 20 MHz to 520 MHz (DDS)

Kestrel Bravo - 500 MHz to 950 MHz

Kestrel Charlie, 3G and WLAN variants.

Kestrel Delta—GSM 900 & 1800 (Dual Band)

Power Supply:

LIPS5 Lithium Ion Battery providing 4 hours operation (Kestrel Alpha & Bravo).
LIPS9 option available

Temperature Range:

- 10°C to + 55°C

Humidity:

5% TO 95% Relative Humidity

RF Output Power:

Kestrel Alpha: 10 Watts nominal into antennas, integral diplexer filters output to two antenna ports, antenna #1 20-100MHz, antenna #2 100-520MHz.

Kestrel Bravo: 10 Watts nominal into a single antenna.

Dimensions:

225mm x 215mm x 75mm not including connectors or batteries
353mm x 215mm x 75mm including LIPS5 battery

Weight:

Less than 3kg excluding battery and antennas
Less than 6.5kg including LIPS5 battery

COMPONENTS

- Rugged forced air cooled unit
- DDS, Module Pre Amplifier and Controller (Kestrel Alpha, Bravo & Delta versions only)
- LIPS5 compatible (LIPS 9 optional)
- Diplexed output for antenna efficiency and improved coverage (Alpha Model)
- Integral GPS antenna with external GPS connector for vehicle fit
- Carbon Fibre Graphical hand Held Controller (GHHC)
- DDS "fill" gun and software kit

Installation, commissioning and training available 'in country'/'in theatre'.

Please Note: Purchase of equipment subject to Export Licence approval



Bravo Variant of Kestrel

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