

PROVISIONAL



Thestral

The Thestral has been designed to be installed within a building complex to provide an effective counter to the threats posed by the use of mobile phones. These threats may include an information security breach within a sensitive area, unwanted protest coordination or, the use of the mobile phone system to initiate a Radio Controlled Improvised Explosive Device (RCIED) attack.

The Thestral uses sophisticated Direct Digital Synthesis (DDS) technology to provide a highly power efficient and effective jamming source. This technology surpasses the performance of analogue jamming technology.

The wall-mounted unit is tamper resistant and fully contained including an integral flat plate antenna. Jamming outputs may be controlled via Ethernet, RS232 or RS485 protocol from a central control user interface allowing complete control of use of the mobile phone network within a building complex.

The flexibility of the unit and ability to network makes the Thestral suitable for a range of deployments. A Thestral system comprising of a number of centrally-controlled units is suitable for use within a prison facility, airport, sensitive government building or a military installation. A single Thestral unit is

suitable to control the use of mobile phones within a specific area within a building or, for use at a military checkpoint.

The Thestral is available in four versions dependant on the operational requirement. Outputs include low band GSM, high band GSM and the 3G mobile band as standard; Ethernet control is as standard. A 2.4 - 2.5 GHz band output is provided as an optional extra to counter threats in this band including Wireless Local Area Networks and Personal Area Network (WLAN/PAN).

Enterprise Control Systems Ltd (ECS) has over 20 years experience of providing Radio Frequency inhibitors and is able to offer a bespoke Integrated Logistic Support package to support the deployment of Thestral. This can include a site requirements survey, customer requirements analysis, equipment installation and user training.

Thestral

specification

Inhibitor specification

Equipment Versions:	<u>Thestral One</u> : Low and high band GSM, 3G. <u>Thestral Two</u> : Low and high band GSM, 3G and 2.4 GHz Band.
Power Supply:	External mains. 93 - 132 (115 nom) VAC and 187 - 264 (230 nom) VAC at 47 - 63 Hz. 60 VA max
Operational Temperature:	-10 ° C to +55 ° C. Integral and automatically-controlled cooling fans
Operational Environment:	Indoor use only. Ingress Protection rating: IP40
RF Outputs:	<u>Low band GSM</u> - 850 - 960 MHz. 2 W nom <u>High band GSM</u> - 1805 - 1990 MHz. 2 W nom <u>3G band</u> - 2110 - 2170 MHz. 2 W <u>ISM 2.4 GHz band</u> - 2400 - 2500 MHz. 2 W nom
Antenna:	Flat plate antenna integral to the unit. >4 dBi
Control Protocols:	Ethernet, RS232, RS485 (RS control optional)
Control Functions:	On/off and RF power output in 1 dB steps with 2 W nom as the maximum power setting. Each band may be controlled independently
Size:	450 x 250 x 100 mm approx
Weight:	<10 kg.

Support:

ECS is able to provide in-country commissioning and training.

Export Licence:

Purchase of Thestral equipment may be subject to export licence approval (pending).

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Enterprise Control Systems Ltd. has a policy of continuous development. Data contained on this sheet should be used for guidance only

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