



‘Delivering Effective Capability’



Meteor – Dual Band Jamming System

‘Using MD1 Technology’

Meteor - Dual Band Jamming System

Modular, High Powered, Software Defined, Vehicle-Borne and Portable Jamming System

Meteor is a high-power jamming system designed to prevent the detonation of Remote-Controlled Improvised Explosive Devices (RCIEDs), counter Uncrewed Air Systems (UAS) / drones and tear down communication links. The system is a highly flexible, software defined Electronic Warfare (EW) jamming tool. Meteor units can be used as a single unit or stacked to form a bigger, more powerful system.

The Meteor Jamming System is not only highly effective but also a highly efficient vehicle-borne and portable jamming system designed to protect high value assets. Hyperion Defence Solutions has integrated MD1's Jamming Engine Technology allowing specialised jamming waveforms to be generated in real time.

Protection Capability

- Protection against RCIED
- Protection against UAS/drones

Support

Easy vehicle installation.
Extensive online health monitoring is provided to give absolute confidence in the performance of the system.

Modular

Multiple units can be stacked and operated in synchronisation to suit customer needs.
Class leading size, weight and power.



Features and Benefits

Environmentally Sealed

Designed for the most demanding users

MD1 Jamming Engine Technology

Custom RF waveforms for optimal inhibition

Dual Ultra High Power RF Outputs

Synchronisation

Multiple units can be stacked and operated in synchronisation to suit customer needs

Simple User Interface

Low training burden

Class

Class leading size, weight and power

Forced Air Cooling

Reliable operation in extreme environments

High Speed Networking

Easy integration with other systems



Technical Specifications



Input Voltage	18 - 33 V (24V nominal)
Input Power	800 W maximum
Input Transient Voltage Protection	± 250 V for 50 100 V for 50 ms at 0.5 mΩ 14 VAC pk-pk
Reverse Voltage Protection	Continuous
Output Frequency Range	Variant A: Dual Output - [20 - 520 MHz] + [500 - 3000 MHz] Variant B: Dual Output - [500 - 3000 MHz] + [500 - 3000 MHz] Variant C: Dual Output - [500 - 2700 MHz] + [2500 - 6000 MHz]
RF Output Power	Variant A: Dual Output - [Low Band = 100W] + [Mid Band = 100W] Variant B: Dual Output - [Mid Band = 100W] + [Mid Band = 100W] Variant C: Dual Output - [Mid Band = 100W] + [High Band = 50W] All outputs calibrated to ± 2dB
Maximum Load VSWR	∞ : 1
VSWR Fault Detection	Auto detection of VSWR condition worse than 4:1
Signal Generation	MD1 Technology Jamming Engine Technology with ultra-high-speed Direct Digital Synthesis: Jamming modes, CW, Spot, Barrage, Modulated Frequency Sweeps. Consult MD1 for more details.

Operating Temperature Range	-20 °C to +60 °C
Storage Temperature Range	-40 °C to +85 °C
Cooling	Integrated Forced Air Cooling

Chassis Material	CNC Machined 6082 Aluminium With Clear Chemical Film Chromate Conversion To MIL-DTL-5541F Type II Class 3 Protective Finish
Chassis Finish	Polyester Powder Coat, Fine Texture, TGIC Free, Gloss Level 1 - 10%. Colour Code RAL 7016
Chassis Dimension	W 340mm x D 320mm x H 95mm

Interfaces	2 x N-type RF Connector (50 Ω) Circular Data Connector
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Electromagnetic Compatibility & Immunity	MIL-STD-461F test levels RE102, RS103, CS114, CS115, CS116. MIL-STD-1275-E
Environmental	MIL-STD 810G

Warranty

Every Meteor Jamming System comes with a full one year warranty against defective materials and workmanship, which can be extended if the unit receives regular maintenance

Training

Hyperion Defence Solutions offers full training in using all our products as a well as complete Counter Improvised Explosive Device training solutions.

For more information or a demonstration please contact us on the following:

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