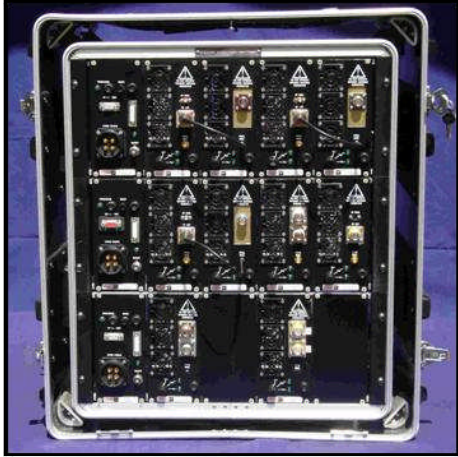


Black Shadow 25MHz - 18GHz



The need for wide band jammers has increased as the terrorist becomes more and more sophisticated. Blackshadow can be used to prevent the explosion of radio controlled bombs (RCIEDs), black-out mobile telephones and WiFi links, jam selected TVRO channels and block radars.

It is an aid which confuses the terrorist and in doing so may protect vulnerable staff, vehicles and buildings against their actions. This is done by creating a local radio blackout around police or military or dignitaries or property.

Black Shadow is a compact unit which can be fitted in a vehicle for mobile convoy protection or placed in an area of threat or in a building. It can radiate multiple programmable jamming carriers that can instantaneously jam selected frequency bands in the range 25MHz to 18GHz. The modular design enables the system to be fitted to jam the required threat frequencies while being easily maintained by personnel in the field.

Each frequency band offers the option of blanket jamming or targeted jamming through programmable windows. Clear channels can be left for communications. On disconnection of the power the software settings are stored in a central processor so the unit automatically powers up on the same settings. Black Shadow can be effective in saving lives or curtailing terrorists.

Features

- Protects vulnerable staff against RCIEDs
- Programmable targeted frequency bands
- Compact and portable with battery or mains power supply.
- Easily programmable for maximum affect over a wide protection radius.
- Modular design for easy operation and maintenance
- Remote Control



Because of the technology being used the British MOD/Export Control have classified the jammer and sales are restricted to the Security Forces, Military, Police, Embassies, Dignitaries and Politicians etc and are subject to an export license.

Specification for Broadband Jammers

Frequency Band

Band 1	25Mhz — 125Mhz
Band 2	125Mhz — 250Mhz
Band 3	250Mhz — 500Mhz
Band 4	500Mhz — 1000Mhz
Band 5	1000Mhz—2000Mhz
Band 6	2000Mhz ---2500Mhz
Band 7	2500MHz—3000MHz
Band 8-18	3000MHz—18000MHz in 1GHz or 2GHz bandwidth.



The number of bands fitted is limited to four per shelf and are specified at time of order. Mechanically each chain is identical and will fit into any slot of the shelves. All bands may operate together provide there is sufficient current.

Either the whole of each band or selected windows in each band may be used to jam with the full transmitted power. The jamming program is stored in the central processors—one per shelf.

Output Radiated Power EIRP

	Single Jammer	Phase combined Jammer
Band 1	80—100 Watt.	105--200 Watt.
Band 2	80—100 Watt.	100—150 Watt.
Band 3	50—100 Watt.	80—120 Watt.
Band 4	50 — 60 Watt.	60—100 Watt.
Band 5	10 — 20 Watts.	N/A
Band 6	5 — 20 Watts	N/A
Bands 7-18	5 — 20 Watts	N/A

Antennas	Monopole, biconical, omni, collinear, sector, horn
Dimension	560mm wide x 560mm deep x 240mm high
Weight	Module 4Kg, Case 8Kg
Power	24VDC @ 2-8 amp per band, max 50 Amps per shelf
Temperature	-20°C to 50°C within few minutes of switch on

Note

Minishadow is available for those only wanting narrow band jammers to block mobile telephones .

Digital RF maintains a policy of improvement and reserves the right to modify the specification without prior notice.