



01 / CAPABILITY OVERVIEW

VPJ-1

VPJ-1 vehicle protection jammer



FIG 01 PRODUCT CONFIGURATION

**BH1 800-1500 MHz, BH2
1500-2170 MHz, BH3
2170-2500 MHz**

FREQUENCY RANGES

**5-10 m depending on
signal strength at site**

EFFECTIVE JAMMING RADIUS

**27 dBm for all bands
independently**

OUTPUT POWER

12 Vdc / 24 Vdc

POWER SUPPLY

01.1 / OVERVIEW

A vehicle-mounted jamming unit for protection against radio-controlled improvised explosive devices and unauthorised use of cellular communication devices, blocking up to three frequency bands simultaneously and independently within 5 to 10 metres of the vehicle.

TYPE

Jammer

PROCUREMENT AND COMPLIANCE

Supply is exclusively for government and institutional end-users. Availability is subject to destination screening, a state-issued export licence and a verified End-User Certificate.



02 / TECHNICAL SPECIFICATION

TECHNICAL DATA

VPJ-1 / TECHNICAL EQUIPMENT

PERFORMANCE

Frequency ranges	BH1 800-1500 MHz, BH2 1500-2170 MHz, BH3 2170-2500 MHz
Antenna frequency ranges	ANTENNA1 800-1500 MHz, ANTENNA2 1500-2170 MHz, ANTENNA3 2170-2500 MHz
Operating temperature range	-20 °C to +60 °C

INTERFACES AND OPERATION

Output power	27 dBm for all bands independently
Max. power	0.5 W (CW) per band at 50 °C
Connector	SMA-female
Power supply	12 Vdc / 24 Vdc

PHYSICAL DATA

Radiation (H-plane), beamwidth at -3 dB	70° at 920 MHz; 60° at 1920 MHz
Radiation (E-plane), beamwidth at -3 dB	70° at 920 MHz; 60° at 1920 MHz
S.W.R. in bandwidth	≤ 2.0:1 from 800 to 1500 MHz; ≤ 1.8:1 from 1500 to 2500 MHz
Dimensions ANTENNA1	148.3 x 127 x 45 mm
Dimensions ANTENNA2	148.3 x 127 x 30 mm
Dimensions ANTENNA3	120.5 x 75.5 x 20 mm
Dimensions jammer unit	300 x 265 x 80 mm



TECHNICAL DATA

VPJ-1 / TECHNICAL EQUIPMENT

ADDITIONAL TECHNICAL DATA

Synthesizer type	digital
Jamming signal type	fast CW sweep signal, chirp (sweep time as low as 20 µsec)
Antenna system	three PCB antennas
Impedance	50 Ω unbalanced
Polarization	linear vertical
Gain	5 dBi
Consumption	40 VA
Effective jamming radius	5-10 m depending on signal strength at site
Remote control	optional