



# ***JAM – 1100 E***

**Vehicle Mounted Jammer**

***Mercedes S500***

**Products information**

**ALMENTA HK**

200 W. Washington Square Suite 1308 Philadelphia, Pa 19106

[sales@almentagroup.com](mailto:sales@almentagroup.com)



## General

The **JAM-1100E** provides the ultimate solution for saving lives which are threatened by roadside bombs which are Improvised Explosive Devices (IEDs). The latest technology in jamming, installed in Mercedes S500, provides our customers with compete turn-key solution.

The **JAM-1100E** is a very high power design that jams communication within 15 different frequency bands. It covers continuously and simultaneously the most commonly used RF communication frequencies from **25 MHz to 3800 MHz** which terrorists are using to detonate road-side bombs (RCIEDs).

Using the latest jamming and antenna technology, the new generation of the **JAM-1100E** now has an ultra high RF transmitting power of **1100 watts** ( more than **4000 watts** of EIRP) resulting in more coverage distance.

This state-of-the-art RF jamming system is installed in the trunk of the Mercedes S500 vehicle and is supported by a fully integrated smart active cooling system, powered by a dedicated specially customized independent high power DC generator, high gain omni directional antennas are mounted on the roof of the vehicle.

Full system management (activation, control and operation) is carried out via a remote control unit, which is installed near the driver.

***There is simply no better way to defend your VIP from the threat of radio-activated bombs.***

## Features

- A highly efficient special high power jammer kit especially designed for mobile/vehicle use.
- The jammer is constructed to jam simultaneously most of the existing cellular/satellite/walky-talky standards (frequency bands) used around the world
- Total RF power of up to 1100 Watts ( more than 4000 Watts of EIRP)
- More power on the CDMA,GSM and UMTS bands
- Remote control unit.
- New antenna design with increased gain – more coverage distance.
- Up to 7 reduce antenna height antennas solution for 15 band coverage.
- "Smart Active" cooling system enables unlimited continues operation.

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## Typical Applications

- Special Police (S.W.A.T)
- Bomb disposal squads
- Military security forces
- Riot and crowd control
- VIP protection
- Military convoys

## Advantages

- Extremely wide frequency range from 25 to 3800 MHz
- Increased total RF power up to 1100 Watt (4061 Watt E.I.R.P)
- 15 frequency bands
- Upgraded jamming signal source to provide utmost efficiency.
- Fully independent, high reliability very high power (7kW) compact silent DC generator
- with internal build-in over-voltage, over-current and over-temperature protection as well as requiring minimum maintenance.
- New design of modular ALL-IN system construction with totally upgraded RF power amplifier modules with VSWR plus over-burning, over-current and over-voltage build-in protection.
- Additional high efficiency dual active “smart” cooling systems; one dedicated to the high power generator and the other to the jamming system unit.
- New antenna design and configuration; with increased gain to enhance coverage distance.
- **Optional B6 armoring**
- Optional - full vehicle RF Shielding and EMI protection.



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## Specification

Frequency band Mhz	Application	RF Output Power Watts
25-50	CD Radio, Car Alarms, Radio Controlled Toys	40
68-88	Walky-talky(LB)	30
135-175	Walky-talky(VHF)	75
350-400	Walky-talky(UHF(350)	100
400-470	Cellular NMT, Walky-talky (UHF400), Car Alarm	150
470-530	Cellular CDMA450, Walky-talky(UHF450)	100
800-850	Walky-talky (UHF700/800), TETRA	75
850-895	Cellular CDMA/TDMA, Walky-talky (UHF800)	75
925-960	Cellular GSM900	100
1520-1670	GPS & Satellite: Thuraya, Iridium, Odyssey, Global Star, Inmarsat	50
1805-1880	Cellular HGSM1800	100
1930-1990	Cellular GSM 1900/PCS {+PHS}	75
2110-2170	Cellular UMTS/WCDMA (3G) Extended	100
2400-3000	WLAN & Bluetooth & Wifi	15
3400-3800	MMDS & WLAN & WiMAX 3.4, 3.5, 3.6	15
<b>TOTAL RF POWER</b>		<b>1100</b>

Frequency Range	25-3800Mhz
Number of Channels	15
Total RF Output Power	1100W ( 4061 watts E.I.R.P)
Power Consumption	Max 6500VA
Vehicle Platform	<b>Mercedes S500 or S550</b>
Main system components	Jamming system modules DC Generator Battery backup Control units Cooling system with air filters Duplexers/combiners Antennas Remote control unit
Remote Control	Wired, full system operation control
Housing	Jamming Modules that fit in the vehicle truck.
Size	55x50x50 cm
Total System weight	approx. 250kg
Humidity	Up to 90%
Operation	-20° ... +55° C
Antenna type	High gain Omni directional
Number of Antennas	Max 7
Operational Time Limit	24/7 ( no Limitation)

\*\*Specifications are subject to change with customer request or by manufacturer without prior notice



## System components

JAMMING SYSTEM UNIT



SPECIAL HIGH POWER DC GENERATOR

HIGH GAIN WIDEBAND EXTERNAL OMNIDIRECTIONAL ANTENNAS



## Factory Installation







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