

# ADIS

## Radar Countermeasures Systems

AMS Defence Integrated Systems

## ADIS RADAR COUNTERMEASURES SYSTEMS

AMS has developed several radar denial systems covering the L, S, C, X and J bands. These versatile systems have a fully programmable low power unit which can be programmed for almost any jamming waveform needed and then through microwave frequency converters the denial system can be configured to operate in any frequency band from the above mentioned. In the following table some of the main specifications of ADIS Systems are depicted.

Specification	Comments
Frequency bands of operation <ul style="list-style-type: none"> <li>▪ L-band (1-2GHz)</li> <li>▪ S-band (2-4 GHz)</li> <li>▪ C-band (4-8 GHz)</li> <li>▪ X-band (8-12 GHz)</li> <li>▪ J-band (12-18 GHz)</li> </ul>	For higher frequency ranges please consult AMS Ltd. Multiband designs are available, combining
Output Power levels	Power levels range from 10 Watts to 4 KW with respect to the frequency range of operation
Transmitting Antennas	A variety of antennas can be used. Omni-directional, sectoral or high gain antennas (dishes or horns) are possible depending on the customer needs.
Antenna Mounting	Depending on application special antenna mounts are available. For ship installation additional pitch & roll stabilizer is provided. Also available AMS patented rotational reflector for continuous azimuth coverage without the need of rotary contacts.
Power supply	Power supply can be either DC or AC and it is fully configurable by customer needs.
Software, MMI	Ruggedized Computer, fully featured MMI for system control, integrated digital maps with GPS and Electronic Compass support, automatic antenna configuration, rotation control. The system supports integration with AMS "AIOLOS" ELINT system for target radar recognition, sorting and automatic ADIS reaction.
Remote Control	Wireless Remote control through WLAN 802.11b/g/a, or other wireless standard. VSAT interface available. Wired Remote control through TCP/IP.
Environmental-Mechanical	All units are ruggedized and conform to the best industrial standards. Military standards are possible upon request.

The denial units can be deployed either on vehicle or battleship depending on their output power capabilities and the operational planning.

Since such systems are fully configurable according to customer needs typical delivery times range from 6 to 12 months according to the complexity and functionality set by the customer.

In figure 1 the system block diagram of the operation of the radar denial system is shown. The modular design of this product permits the usage of it as a multiband denial or as a single band one.

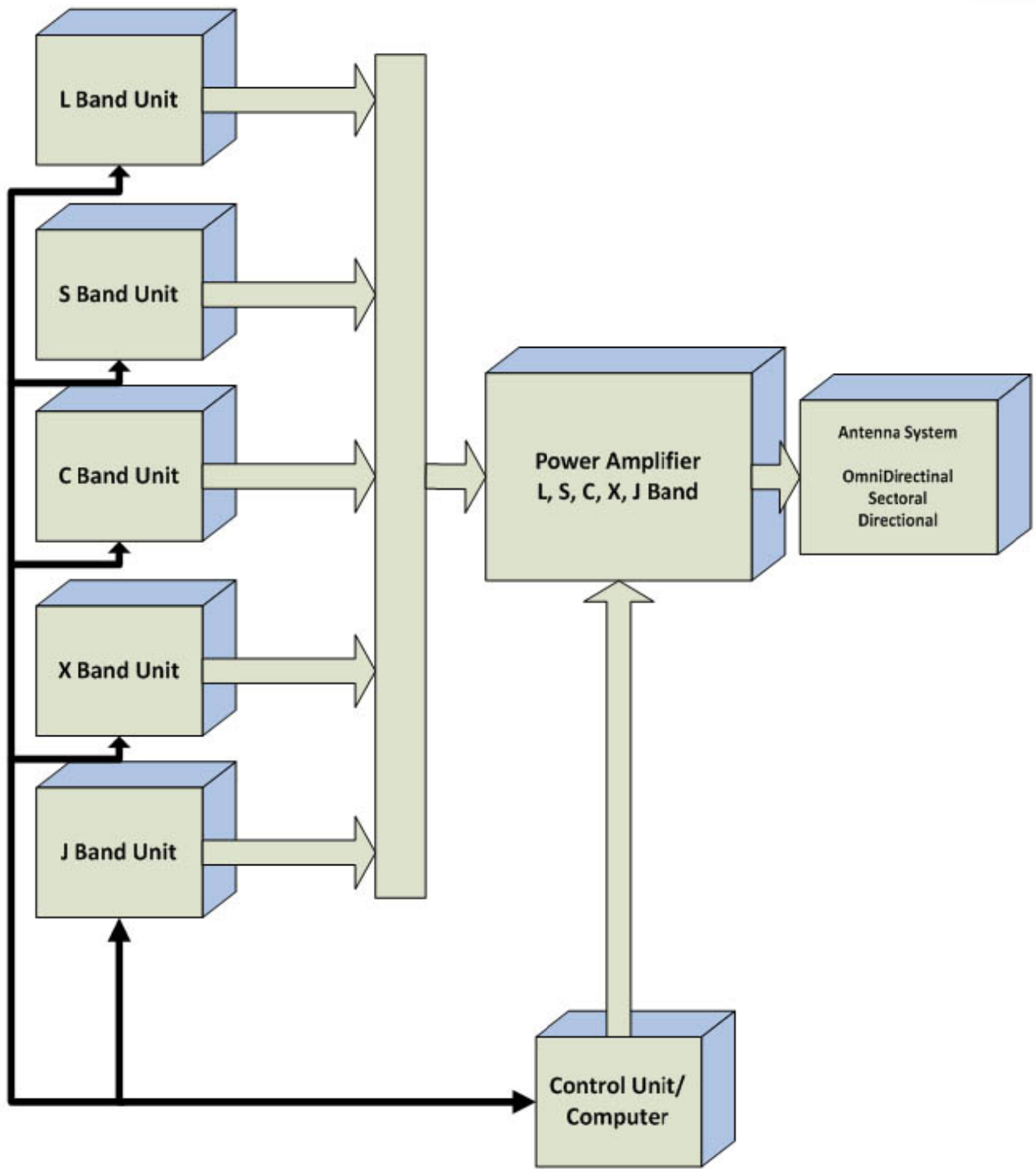
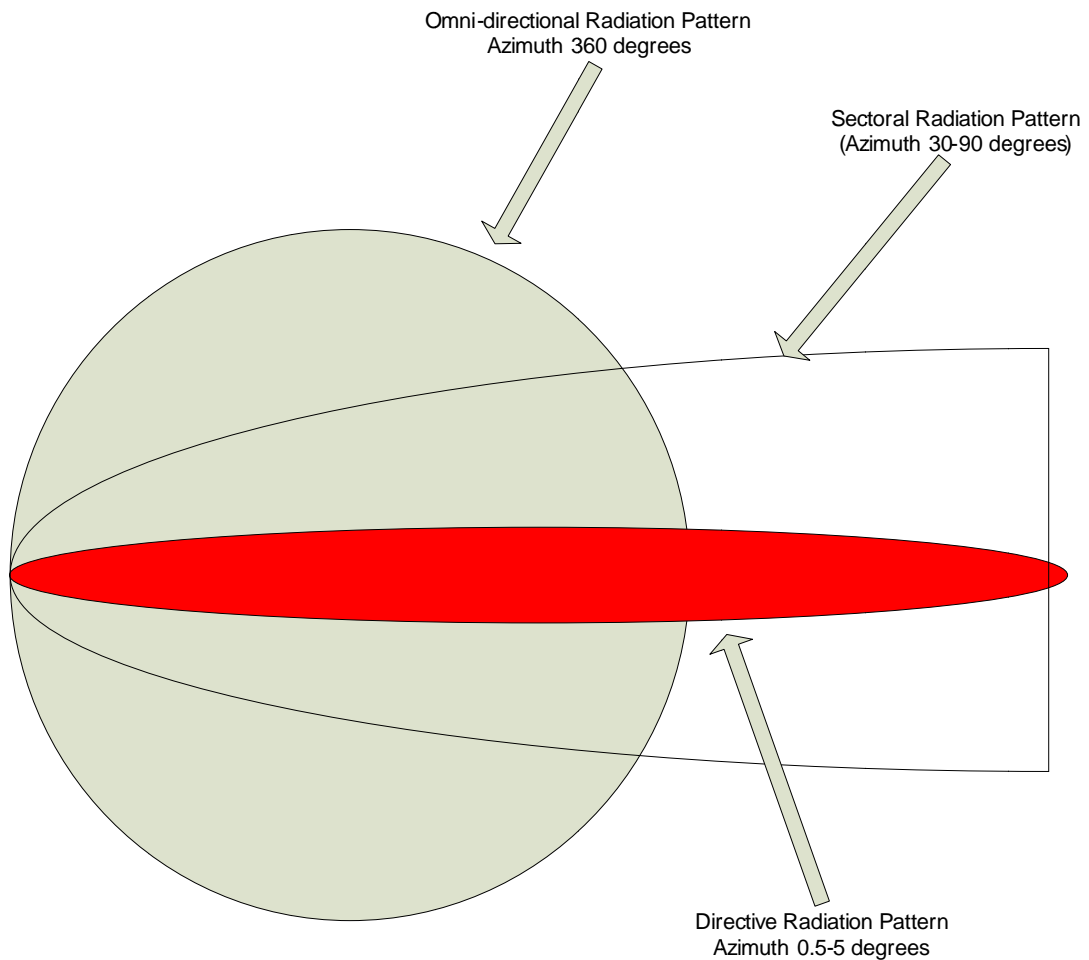


Figure 1. Operational configuration



**Figure 2. Artistic view of the radar denial system radiation patterns.**

In figure 2 the radiation patterns and the azimuth beam-widths in degrees are just indicative. In fact, any pattern that the customer requests is possible.

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