AN/AAR-44B INFRARED WARNING RECEIVER

AN/AAR-44B

System

Technology	Scanning infrared
Warning Provisions	Three indicators: crew visual, audio and external countermeasures command
Performance	Classified

Size

Control and Display	102 mm x 142 mm x 150 mm (4.1" x 5.7" x 6.0")
Processor	200 mm x 212 mm x 252 mm (8.0" x 8.5" x 10.1")
Sensor	400 mm x 369 mm dia (16" x 14.75" dia)

Weight

Overall System	31.30 kg (69.0 lb)
Control and Display	1.36 kg (3.0 lb)
Processor	9.07 kg (20.0 lb)
Sensor	20.87 kg (46.0 lb)

Power

115 VAC 400 Hz	
Operate mode typical	3-phase 155 W
+28 VDC	75 W
Compatibility	MIL-STD-1553B

Design Specification

MIL-STD-781, MIL-Q-9858, MIL-E-5400, MIL-STD-454, MIL-STD-704, MIL-STD-810, MIL-STD-461, MIL-STD-462	

Environmental

Storage Temperature	-54 °C (-65 °F) to +90 °C (+194 °F)
Operating Temperature	-54 °C (-65 °F) to +71 °C (+159 °F)
Storage Altitude	0 to 15.24 km (0 to 50,000 ft)
Operating Altitude	0 to 15.24 km (0 to 50,000 ft)

Long-range, multi-threat capabilities provide continuous tracking, while search and verification of surface-to-air and air-to-air missile launches provide for unsurpassed survivability.

The AN/AAR-44B is currently deployed on active-mission aircraft. The sensor unit electronics are upgraded to provide increased detection range, with field-proven reliability and performance with pinpoint threat resolution. Covert threat warning is fully compatible with EMCON operations. There is a high probability of detection and low false-alarm rate with long-range detection for maximum time to counter missiles. The system is operational over the entire flight envelope with variable sensor configurations for hemispheric or spherical field of view.

FEATURES

The AN/AAR-44B features simultaneous multi-threat capability with multispectral discriminators to reject backgrounds and countermeasures. Full-system operation with or without data bus integration is included along with a directional infrared countermeasures interface. The system includes robust Infrared scanning technology and is flight-line reprogrammable.

The system is integrated with Meggitt Avionics threat warning indicator display.

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1025 W. NASA Boulevard
Melbourne, FL 32919
t 800 852-5105 f 513 573-6290
InfraredSales.cin@L3Harris.com