

## IFF MARK XIIA System Devices

### ISZ-50 Medium Range Interrogator

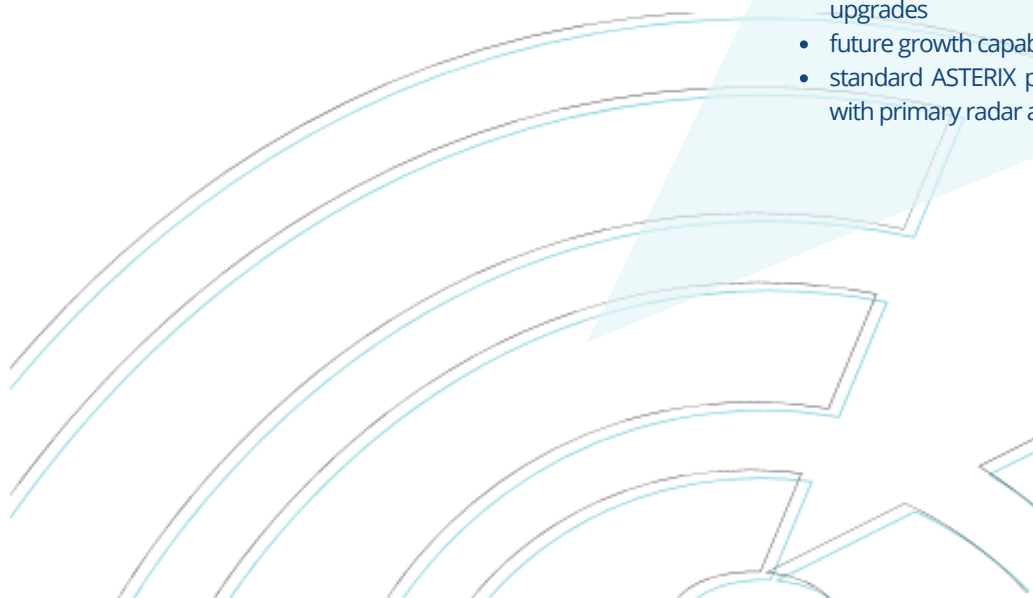
The ISZ-50 is a medium range IFF Mark XIIA interrogator intended for use with medium and short range radar systems. The ISZ-50's digital circuitry and advanced processing algorithms provide identification confidence, performance and noise immunity.

The ISZ-50 supports identification in Modes 1, 2, 3/A, C and S as well as Mode 5 (with an appropriate crypto computer installed). Sophisticated built-in test (BIT) procedures and modular design ensure efficient fault detection and repair, and software updates provide future growth capability. The ISZ-50 is packaged in a compact enclosure suitable for installation in a broad range of stationary and mobile platforms.



### Features

- supports IFF Modes 1, 2, 3/A, C, S (up to Level 2) and Mode 5 (up to Level 2)
- compliant with STANAG 4193 Edition 3
- compliant with ICAO Annex 10
- state-of-the-art digital circuitry and advanced processing algorithms for identification confidence, performance and noise immunity
- monopulse processing for accurate position evaluation
- supports KIV-77/SIT2010 and compatible crypto computers for Mode 5 security
- extensive fault detection capability through advanced built-in test (BIT) procedures
- modular design for quick repairs and easy hardware upgrades
- future growth capability through firm-ware updates
- standard ASTERIX protocol for broad interoperability with primary radar and C4ISR systems



## Specification

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## General

Type	Medium-range IFF Mark XIIA interrogator
Identification capability	Mode 1, 2, 3/A, C, S (up to Level 2) and 5 (up to Level 2) per STANAG 4193 Edition 3

## Performance

Output power	> 56.5 dBm
Minimum Decoding Level	< -76 dBm
Instrumented range	240 km
Capacity	1000 objects/scan; 100 in-beam targets

## Connectivity

Interfaces	Ethernet, RS-422, Option B crypto (DoD AIMS 04-900A)
Control protocol	EUROCONTROL ASTERIX-compatible

## Environmental

Operating temperature	From -40 to +55°C
Humidity	<98% RH
Shock resistance	Up to 15 g
EMC compatibility	Complies with MIL-STD-461F

## Reliability

MTBF	≥ 7300 h
MTTR	< 30 min

## Physical characteristics

Power supply	27 V DC (21÷30 V DC), max 100 W
Dimensions	379×225×133 mm (W×H×D)
Weight	13 kg
Cooling	Natural, convection

