

AN/TPX-56 IFF Interrogator Set



AN/TPX-56 IFF Interrogator Set is the world's most compact Identification Friend or Foe interrogator for ground and sea superiority.

Benefits

- AIMS Certified
- Active decoding of SIF (Modes 1, 2, 3A/C)
- Mode 4 friend evaluation with KIV-16 applique
- Design IAW STANAG-4193, U.S. DoD 97-1000 certified
- Flexible digital bus interface to host platform:
 - Serial RS 422
 - Serial RS 232
 - NRE or FMO Formats
- Digital target reports
- ISLS and RSLS circuitry provides beam sharpening and side-lobe suppression
- Extensive use of field programmable gate arrays for design flexibility
- Complete Built-In-Test
 - 90 percent isolation to 2 SRUs
- Ease of code loading
 - Loads 4 days of Modes 1, 2, 3/A via RS 232
 - Load Mode 4 via front panel fill connector in the KIV-16 appliqué crypto computer
- Demonstrated Mode S interrogation growth capability

Do you really know who your friends are? Raytheon does.

In today's military environment, rapid identification and classification of potentially hostile targets is critical to support engagement decisions. The AN/TPX-56 has been selected by the U.S. Army as its standard air defense Identification Friend or Foe system. The AN/TPX-56 IFF Interrogator set initiates the question and provides the advanced processing to determine if a target is friend or foe.

The TPX-56 IFF system was developed for the U.S. Army as a state-of-the-art interrogator with active decoders for Modes 1, 2, 3, C, and Mode 4. This unit provides the platform with target identification, reply code, range, azimuth, and

jamming indications. This system's capability enables the operator to maintain control of the airspace and correctly identify friendly aircraft to reduce the potential of fratricide.

Raytheon's AN/TPX-56 IFF Interrogator is the lightest, smallest, high-performance interrogator available in the world. Its flexible interfaces and programmable performance parameters allow it to serve multiple air defense platforms while maintaining logistics commonality and reducing the Army's total ownership costs.

It has been selected by the U.S. Army for its Sentinel Radar and Air Traffic Navigation and Control Systems (ATNAVICS), as well as by the U.S. Marine Corps for the improved HAWK missile system.

The AN/TPX-56 Interrogator has demonstrated its enhanced field capability and has been recognized by the U.S. Army with a "new record for correct ID" at Task Force XXI and "flawless performance" at All Services Combat ID Exercise and Training exhibition in 1997.

AN/TPX-56 IFF Interrogator Set

General Description	
Solid State:	200 watt and 500 watt peak transmitter power variants
Receiver Sensitivity:	-79 dBm
Input Power:	37 watts AC; 50, 60, or 400 Hz
Transmit Frequency:	1030 ± 0.1 MHz
Receiver Frequency:	1090 ± 0.2 MHz
Bandwidth (3 dB):	8 - 10 MHz
Transmit Duty Cycle:	1.25% maximum
Reliability:	4,200 hours MTBF
Weight:	12 pounds (5.4 kilograms)
Dimensions (H × W × D)	7.10 × 5.74 × 10.20 (18.03 cm × 14.60 cm × 29.90 cm)

GENERAL SPECIFICATIONS: **U.S. DOD-AIMS 97-900D AND MIL-E-5400**

**Specifications subject to change*



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