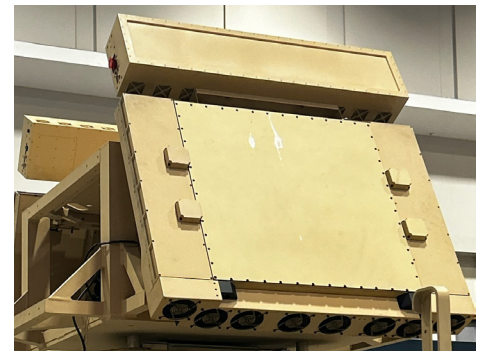


IFF AESA

ARA's ARA-eIFF-200K is an Identification of Friend or Foe (IFF) Radar system with advanced electronic scanning (E-Scan) capability. This product uses a unique IFF Active ESA Radar that has been developed from the ground up to meet the needs for low SWAP mobile applications such as SHORAD, Mobile-SHORAD or portable Air Traffic Control (ATC) applications. Despite the compact antenna size of 120 cm this system has a proven range of >108 NMI or 200Km. This makes it ideal for most short and medium range air defense or ATC applications. With E-Scan capability these radars can perform dynamic out of sector selective interrogation and can also dynamically compensate for platform heading changes.

ARA's IFF radar is completely solid-state with no moving parts resulting in very low maintenance and high reliability. Depending on customer performance needs, a typical 360 deg sure application employees 4 antenna each coving 90 deg sector. Since the antenna is fixed mounted to the side of a platform, this frees top side space typically taken up by a rotating antenna. This allows for installation of other antennas or EO tracking sensors.

To support existing interrogators that are part of sovereign solutions, ARA's AESA antenna is designed to ease integration with them by providing a single common interface similar to existing rotating antenna. Since the ARA IFF antenna is an AESA with integrated RF power amplifier a simple low power interrogator is sufficient. The AESA antenna supports all IFF Modes in use by civilian and military A/C &S, 1,2,3,5 (L1, L2), ADS-B and compliant to applicable ICAO, DoD AIMS and STANAG standards.



- **E-Scan Capable**
- **Long Range in Compact size**
- **Supports Modes 1,2,3, A/C, S & 5 (L1,L2)**

Features

- **Active Electronic Steering (AESA):** no moving parts, dynamic steering allows for dynamic selective cueing request using Mode S/5, also can handle platform heading changes for mobile platforms.
- **Compact size:** 120x25x20 cm ideal for mobility and transportable solutions
- **Long Range:** >200 Km or >108 Nmi
- **Accuracy:** <0.9 deg
- **Supported IFF Modes:** 1,2,3,5 (L1, L2), A/C /S (depending on interrogator)
- **Flexible Mounting:** AESA side can be side mountable
- **Exportable:** Antenna is Non-ITAR
- **Electrical:** 28VDC MIL-STD-1275, optional (110-240VAC)
- **Host Control and Data:** Ethernet
- **Rugged Military Ready:** Environmental Tested to MIL-STD-810G, EMI/EMC: Tested MIL-STD-461 Army Ground
- **Interrogator:** Simplified interface to support legacy Interrogators

