

## AESA Air Defense Search & Track Radar

- > ENA-2026BF is a highly accurate 3D Tactical Air Defense Radar that detects and tracks airborne targets, including: low RCS drones and UAVs, helicopters and fighter aircraft. The radar operates in X-Band and employs solid-state Active Electronically Scanning Array (AESA) technology. The radar is dual mode providing air surveillance and tracking with precise range, azimuth and elevation angles for anti-aircraft guns fire control. The radar has multi-beam elevation coverage through Digital Beam Forming (DBF) and 360° azimuth coverage by antenna rotation.

The radar can be mounted on the ground or on a fixed platform or moving vehicle where it is installed on a customized pedestal. Integrating the radar with E/O sensors provides enhanced classification of targets. Real-time data and status information can be transmitted directly to a command and control unit.



### MISSIONS



Air Defense



CUAS

# Applications

- Tactical Air Situation Picture
- Cueing of short range missiles
- Detection of drones and UAV
- Fire Control of anti-aircraft guns

# Features

- Automatic detection of airborne targets
- Advanced Digital Phased Array
- High reliability – full solid-state design
- Advanced EOCM capabilities

# Specifications

Parameters	Values
Instrumentation range	24.9 mi (40 km)
Detection range for Micro Drone	3.2 mi (5.2 km)
Detection range for Fighter Aircraft (ie F16 & MIG 21BIS)	12.4 mi (20 km)
TWS number of simultaneous targets	>100
Surveillance Mode (TWS) Az El Accuracy	0.5deg
Tracking Mode (STT) Az El Accuracy	2mrad
Elevation coverage (electronic)	0 - 30°
Elevation coverage (TWS, electronic, designated target)	60°
Elevation tracking (STT mode)	Pedestal elevation limit
Minimal detection velocity	8.2 ft/sec (2.5 m/sec)
Azimuth coverage (Mechanical)	360°
Weight of antenna	143.3 (65 kg)
Power consumption of antenna	750 W
Supply Voltage	18V to 32V DC
Environmental Condition	MIL-STD-810F
EMC/EMI	MIL-STD-461E
Operation Temperature	-40° C - +55° C



**ENA-2026BF Ground Mounted**

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