

CENK

LONG RANGE AESA AIR & SURVEILLANCE RADAR





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The Solution for Naval Platform's Future

ASELSAN's new 3D multi-beam AESA naval radar, CENK, is optimized for medium-to-long-range high-altitude air and surface surveillance and target designation. This state-of-the-art radar is an excellent performer in complex littoral environments with their mix of sea, land, rain and thunderstorms and the system is able to detect and track low altitude supersonic or subsonic G/M's, high diving G/M's, assaulting aircrafts, hovering helicopters, various types of sea vehicles ranging from small boats to very large vessels.

Thanks to the element level AESA radar functionality, CENK provides fast track initiation, high track up-date rate and high tracking performance by electronic beam orientation. The electronic beam orientation beyond and behind the radar line of sight in the rotating mode leads to reduced track initiation time as well as better tracking accuracy. High priority targets are updated more often by electronic beam orientation and tracked precisely using waveforms optimized for the corresponding targets.



Technical Features

- Dual axis multi-beam AESA
- Software defined architecture
- Graceful degradation by multi-module redundancy
- Target classification
- 3 Fire Control Windows
- Cued tracking for multiple targets
- Jammer detection and tracking
- Frequency Band: S
- Instrumented Range: 400 km
- Fighter Detection Range > 160 km
- Elevation Coverage: 70° (80° while tracking)
- Azimuth Coverage: 360° mechanical; 100° electrical
- Antenna Rotation Rate: 30 RPM
- Track Load (Air & Surface) > 500
- Above Deck Weight < 1.800 kg
- STANAG 4193 compatible 3 channel IFF Antenna