

AERIS-10N

ADVANCED RADAR SYSTEM

COMMERCIAL DOCUMENTATION



ABAC INDUSTRY
ADVANCED SENSING TECHNOLOGIES



Advanced Radar System

Product Overview

The AERIS-10N is a next-generation radar system designed to provide reliable target detection, tracking, and situational awareness for a wide range of applications.

Developed by ABAC Industry, the AERIS-10N combines advanced radar technology, modern signal processing, and a compact architecture to deliver professional-grade performance at an accessible price point.

Key Benefits

Long-Range Detection

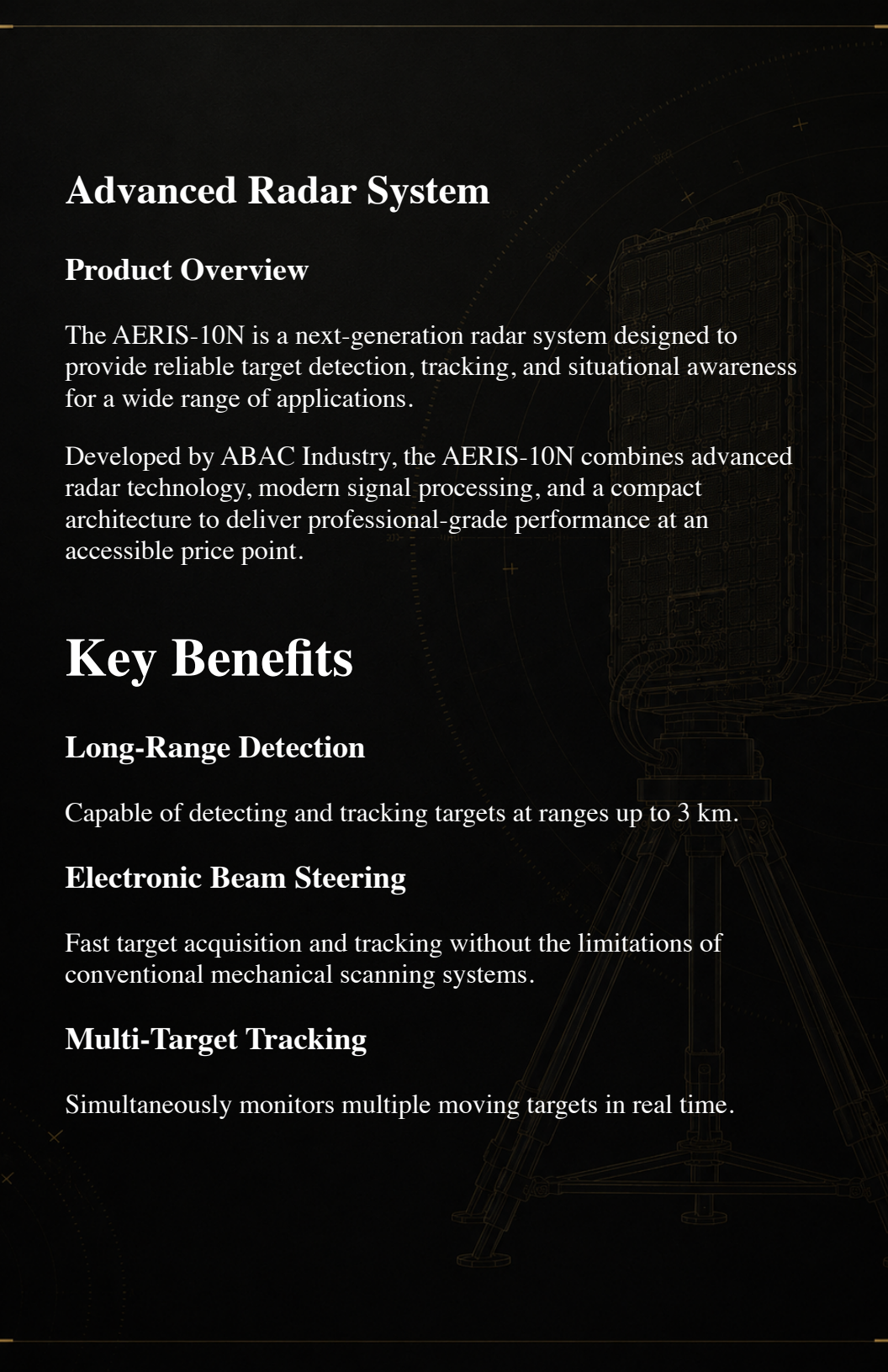
Capable of detecting and tracking targets at ranges up to 3 km.

Electronic Beam Steering

Fast target acquisition and tracking without the limitations of conventional mechanical scanning systems.

Multi-Target Tracking

Simultaneously monitors multiple moving targets in real time.



Open Architecture

Designed for easy integration into existing platforms and customer-specific applications.

Compact Deployment

Portable and suitable for fixed, mobile, and rapid deployment installations.

Cost-Effective Solution

Professional radar performance at a fraction of the cost of traditional systems.

Typical Applications

UAV Detection

Detection and tracking of drones operating in protected areas.

Perimeter Security

Monitoring sensitive facilities and critical infrastructure.

Research & Education

Radar experimentation, signal processing research, and university projects.



Maritime Monitoring

Short-range coastal and harbor surveillance.

Infrastructure Protection

Monitoring industrial sites, energy facilities, and strategic assets.

Smart Sensing Applications

Integration into advanced sensing and monitoring systems.

Technical Highlights

- Phased Array Radar Technology
- Electronic Beam Steering
- Doppler Processing
- Moving Target Indication (MTI)
- CFAR Detection
- Multi-Target Tracking
- GPS Integration
- IMU Integration
- Real-Time Processing
- Advanced Visualization Interface



System Architecture

The AERIS-10N consists of:

- Radar Sensor Unit
- Signal Processing Module
- Control Electronics
- Positioning Sensors
- User Interface Software
- Communication Interfaces

The modular architecture allows adaptation to customer-specific requirements.

Advantages Over Traditional Solutions

Feature	AERIS-10N
Electronic Beam Steering	Yes
Multi-Target Tracking	Yes
Open Architecture	Yes
Compact Form Factor	Yes
Research Friendly	Yes
Rapid Deployment	Yes
Cost Optimized	Yes

Industries Served

- Defense & Security
- UAV Manufacturers
- Universities
- Research Laboratories
- Critical Infrastructure
- Maritime Operators
- Technology Integrators
- Government Agencies

Why AERIS-10N

The AERIS-10N was developed to bridge the gap between expensive legacy radar systems and modern sensing requirements.

It provides organizations with access to advanced radar capabilities while maintaining flexibility, scalability, and affordability.

The result is a professional sensing solution suitable for operational deployment, research environments, and technology integration projects.



ABAC Industry

ABAC Industry develops advanced sensing technologies focused on radar, signal intelligence, target classification, and next-generation situational awareness systems.

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