

Global Surveillance Radar System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Surveillance Radar System market size is expected to reach \$ 2727 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

In 2025, global surveillance radar system production capacity is approximately 7,000 units, with actual production reaching around 6,000 units. The average global market price is about US\$300,000 per unit. The market gross profit margin mainly ranges from 30% to 40%. A surveillance radar system is an electronic sensing system designed to detect, track, and monitor objects such as aircraft, ships, vehicles, or other moving targets within a defined area. It operates by transmitting radio frequency signals and analyzing the reflected signals from targets to determine their position, distance, speed, and direction. Surveillance radar systems are widely used in military defense, air traffic control, maritime monitoring, border security, and critical infrastructure protection. Depending on the application, these systems can operate in ground-based, airborne, shipborne, or space-based configurations. Modern surveillance radar systems often incorporate advanced signal processing technologies, phased-array antennas, and digital control systems to improve detection accuracy, range, and target discrimination capabilities. With the growing need for situational awareness and security monitoring, surveillance radar systems are increasingly integrated with command-and-control networks and multi-sensor surveillance platforms.

The upstream of the surveillance radar system industry chain mainly includes electronic components and materials such as radio frequency (RF) devices, microwave components, antennas, semiconductors, signal processors, power modules, and structural materials. Key suppliers provide high-performance RF chips, phased-array antenna modules, transmitters, receivers, and radar signal processing units. The

midstream focuses on radar system design, integration, and manufacturing, including antenna systems, transmit-receive modules, signal processing units, and command-and-control interfaces. System integrators play a critical role in combining hardware and software to deliver complete radar solutions. The downstream applications span military defense, civil aviation, maritime surveillance, border monitoring, and weather observation. Governments, defense organizations, and air navigation service providers represent the primary end-users, while system maintenance, upgrades, and lifecycle support services form an important part of the overall market ecosystem.

The surveillance radar system market is driven by increasing global demand for security, defense modernization, and advanced monitoring capabilities. Governments around the world are investing heavily in upgrading military surveillance systems and early warning networks to enhance situational awareness and national security. Radar systems play a critical role in detecting aerial, maritime, and ground threats, making them essential components of modern defense infrastructure. Civil aviation and maritime safety also contribute significantly to market growth. Air traffic control systems rely on surveillance radar to ensure safe aircraft separation and efficient airspace management. Similarly, maritime radar systems support vessel tracking, port security, and coastal monitoring. Technological innovation is further shaping the industry. Advances in phased-array radar, digital beamforming, and artificial intelligence–based signal processing are improving target detection accuracy and operational efficiency. In addition, the integration of radar with satellite communication, unmanned systems, and multi-sensor surveillance networks is expanding the functional capabilities of modern surveillance radar platforms.

This report studies the global Surveillance Radar System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Surveillance Radar System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Surveillance Radar System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Surveillance Radar System total production and demand, 2021-2032, (Units)

Global Surveillance Radar System total production value, 2021-2032, (USD Million)

Global Surveillance Radar System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Surveillance Radar System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Surveillance Radar System domestic production, consumption, key domestic manufacturers and share

Global Surveillance Radar System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Surveillance Radar System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Surveillance Radar System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Surveillance Radar System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include L3HARRIS Technologies, Leonardo, Northrop Grumman, BAE Systems, Therma, Thales, Raytheon, Saab, L&T Defence, Lockheed Martin, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Surveillance Radar System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the

forecast year.

Global Surveillance Radar System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Surveillance Radar System Market, Segmentation by Type:

L-band Radar

S-band Radar

C-band Radar

X-band Radar

Global Surveillance Radar System Market, Segmentation by Platform:

Ground-based Radar

Naval Radar

Airborne Radar

Space-based Radar

Global Surveillance Radar System Market, Segmentation by Radar Technology:

Mechanical Scanning Radar

Phased Array Radar

Active Electronically Scanned Array (AESA) Radar

Global Surveillance Radar System Market, Segmentation by Application:

Military

Commercial

Other

Companies Profiled:

L3HARRIS Technologies

Leonardo

Northrop Grumman

BAE Systems

Therma

Thales

Raytheon

Saab

L&T Defence

Lockheed Martin

HENSOLDT

Elbit Systems

FLIR Systems

Israel Aerospace Industries

Key Questions Answered:

1. How big is the global Surveillance Radar System market?
2. What is the demand of the global Surveillance Radar System market?
3. What is the year over year growth of the global Surveillance Radar System market?
4. What is the production and production value of the global Surveillance Radar System market?
5. Who are the key producers in the global Surveillance Radar System market?
6. What are the growth factors driving the market demand?

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