

Global Deep Sensing Technology in the Defense Sector Market: Focus on Application, Platform, Technology Type, and Region - Analysis and Forecast, 2024-2034

<https://marketpublishers.com/r/G32BD27B72A9EN.html>

Date: May 2024

Pages: 0

Price: US\$ 4,850.00 (Single User License)

ID: G32BD27B72A9EN

Abstracts

Hard copy option is available on any of the options above at an additional charge of \$500. Please email us at order@marketpublishers.com with your request.

This report will be delivered in 7-10 working days.

Deep sensing technology in the defense sector market is experiencing significant growth, propelled by enhanced situational awareness, intelligence gathering through the collection of data on enemy movements, troop deployments, and other critical information and Advances in sensor technology, data analytics, and artificial intelligence. Considering the optimistic scenario the market is valued at \$17.34 billion in 2024 and is expected to grow at a CAGR of 6.35% to reach \$32.07 Billion by 2034.

Despite these positive drivers, the market faces hurdles such as require substantial investment in research, development, and procurement, and complex hardware, software, and networking components. However, integration into unmanned systems, such as drones, unmanned ground vehicles (UGVs), and unmanned underwater vehicles (UUVs) present lucrative opportunities for the expansion of deep sensing technology in the defense sector demand, suggesting a vibrant future for this market as it navigates through challenges towards cybersecurity threats, including hacking, data breaches, and sabotage.

Ongoing advancements in sensor technology, including radar, electro-optical/infrared (EO/IR), hyperspectral imaging, and synthetic aperture radar (SAR), are enhancing the capabilities of deep sensing systems. These sensors offer improved resolution,

sensitivity, and coverage, enabling defense organizations to gather high-quality data for intelligence and situational awareness. Military modernization programs in North America prioritize investments in advanced ISR capabilities to maintain strategic superiority and operational effectiveness. Deep sensing technology plays a critical role in modernizing defense systems and platforms, including unmanned aerial vehicles (UAVs), satellites, maritime surveillance systems, and ground-based sensors.

The global market for deep sensing technology in defense is experiencing robust growth, driven by increasing investments in defense modernization, technological advancements in artificial intelligence (AI) and machine learning, and growing security threats worldwide. Major defense contractors, technology companies, and startups are developing and deploying deep sensing solutions to meet the evolving needs of defense customers. In August 2023, Northrop Grumman Corporation achieved a successful demonstration of its Deep-Sensing and Targeting (DSaT) platform during the Experimental Demonstration Gateway Event (EDGE) '23, which was hosted by the U.S. Army.

Market Segmentation:

Segmentation 1: by Application

Intelligence, Surveillance, and Reconnaissance (ISR)

Target Detection and Tracking

Electronic Warfare (EW)

Signals Intelligence (SIGINT)

Others

Segmentation 2: by Platform

Airborne (Military Aircraft, Military Helicopters, and Unmanned Aerial Vehicles (UAVs))

Naval (Military Vessels, Submarines, and Unmanned Surface Vessels (USVs))

Land (Military Vehicles, and Unmanned Ground Vehicles (UGVs))

Space (Satellites)

Segmentation 3: by Technology Type

Radar

LiDAR

Advanced EO/IR Sensors

Quantum Sensors

Others

Segmentation 4: by Region

North America

Europe

Asia-Pacific

Rest-of-the-World

Contents

Executive Summary
Scope and Definition
Market/Product Definition
Key Questions Answered
Analysis and Forecast Note

1. MARKETS: INDUSTRY OUTLOOK

- 1.1 Trends: Current and Future Impact Assessment
 - 1.1.1 Adoption of Edge Computing in the Military Sector
 - 1.1.2 Manned-Unmanned Teaming
- 1.2 Role of Artificial Intelligence (AI) in Multi-Domain Battlefield
- 1.3 R&D Review
 - 1.3.1 Patent Analysis
- 1.4 Supply Chain Analysis
- 1.5 Ongoing Programs
- 1.6 Market Dynamics Overview
 - 1.6.1 Market Drivers
 - 1.6.2 Market Restraints
 - 1.6.3 Market Opportunities

2. GLOBAL DEEP SENSING TECHNOLOGY IN THE DEFENSE SECTOR MARKET BY APPLICATION

- 2.1 Application Summary
- 2.2 Global Deep Sensing Technology in the Defense Sector Market by Application
 - 2.2.1 Intelligence, Surveillance, and Reconnaissance (ISR)
 - 2.2.2 Target Detection and Tracking
 - 2.2.3 Electronic Warfare (EW)
 - 2.2.4 Signals Intelligence (SIGINT)
 - 2.2.5 Others
- 2.3 Global Deep Sensing Technology in the Defense Sector Market by Platform
 - 2.3.1 Airborne
 - 2.3.1.1 Military Aircraft
 - 2.3.1.2 Military Helicopters
 - 2.3.1.3 Unmanned Aerial Vehicles (UAVs)
 - 2.3.2 Naval

- 2.3.2.1 Military Vessels
- 2.3.2.2 Submarines
- 2.3.2.3 Unmanned Surface Vessels (USVs)
- 2.3.3 Land
 - 2.3.3.1 Military Vehicles
 - 2.3.3.2 Unmanned Ground Vehicles (UGVs)
- 2.3.4 Space
 - 2.3.4.1 Satellites

3. GLOBAL DEEP SENSING TECHNOLOGY IN THE DEFENSE SECTOR MARKET BY PRODUCT

- 3.1 Product Summary
- 3.2 Global Deep Sensing Technology in the Defense Sector Market by Technology Type
 - 3.2.1 Radar
 - 3.2.2 LiDAR
 - 3.2.3 Advanced EO/IR Sensors
 - 3.2.4 Quantum Sensors
 - 3.2.5 Others

4. GLOBAL DEEP SENSING TECHNOLOGY IN THE DEFENSE SECTOR MARKET BY REGION

- 4.1 Regional Summary
- 4.2 Global Deep Sensing Technology in the Defense Sector Market - by Region
- 4.3 North America
 - 4.3.1 Markets
 - 4.3.1.1 Key Market Participants in North America
 - 4.3.2 Application
 - 4.3.3 Product
 - 4.3.4 North America by Country
 - 4.3.4.1 U.S.
 - 4.3.4.1.1 Market by Application
 - 4.3.4.1.2 Market by Product
 - 4.3.4.2 Canada
- 4.4 Europe
 - 4.4.1 Markets
 - 4.4.1.1 Key Market Participants in Europe

- 4.4.2 Application
- 4.4.3 Product
- 4.4.4 Europe By Country
 - 4.4.4.1 Germany
 - 4.4.4.1.1 Market by Application
 - 4.4.4.1.2 Market by Product
 - 4.4.4.2 France
 - 4.4.4.3 U.K.
 - 4.4.4.4 Others
- 4.5 Asia-Pacific
 - 4.5.1 Markets
 - 4.5.1.1 Key Market Participants in Asia-Pacific
 - 4.5.2 Application
 - 4.5.3 Product
 - 4.5.4 Asia-Pacific by Country
 - 4.5.4.1 China
 - 4.5.4.1.1 Market by Application
 - 4.5.4.1.2 Market by Product
 - 4.5.4.2 Japan
 - 4.5.4.3 India
 - 4.5.4.4 Others
- 4.6 Rest-of-the-World
 - 4.6.1 Markets
 - 4.6.1.1 Key Market Participants in Rest-of-the-World
 - 4.6.2 Application
 - 4.6.3 Product
 - 4.6.4 Rest-of-the-World by Region
 - 4.6.4.1 Middle East and Africa
 - 4.6.4.2 Latin America

5. COMPANIES PROFILED

- 5.1 Anduril Industries
- 5.2 BAE Systems
- 5.3 Bombardier
- 5.4 HawkEye
- 5.5 Northrop Grumman
- 5.6 Palantir Technologies Inc.
- 5.7 Q-CTRL

5.8 Shield AI

5.9 Other Key Players

6. RESEARCH METHODOLOGY

I would like to order

Product name: Global Deep Sensing Technology in the Defense Sector Market: Focus on Application, Platform, Technology Type, and Region - Analysis and Forecast, 2024-2034

Product link: <https://marketpublishers.com/r/G32BD27B72A9EN.html>

Price: US\$ 4,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G32BD27B72A9EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

