

Global Drone Detection Radar Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Drone Detection Radar Systems market size is expected to reach \$ 458 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

Drone Detection Radar System refers to an active three-dimensional sensing and mapping device installed on an unmanned aerial vehicle platform. It typically consists of a LiDAR sensor, GNSS/IMU positioning and orientation module, camera, data acquisition unit, mounting structure, and post-processing software. By emitting laser pulses and receiving reflected signals, the system captures high-precision 3D point cloud data of target surfaces. It is widely used in topographic mapping, forestry survey, power line inspection, mining measurement, construction engineering, and emergency assessment. Compared with conventional aerial survey equipment, Drone Detection Radar System offers stronger mobility, higher operational efficiency, vegetation penetration capability, and better suitability for complex terrain and low-altitude detailed surveying. The mainstream price of Drone Detection Radar System is around USD 30,000~80,000 per set, with high-end systems exceeding USD 150,000 per set, while current global annual sales are roughly several thousand units, at about 3,500~8,000 sets per year.

The upstream supply chain of Drone Detection Radar System mainly includes laser emission and receiving modules, scanning mirrors or rotating mechanisms, optical components, GNSS/IMU modules, industrial cameras, embedded computing and storage units, batteries and power management modules, UAV platforms, and structural components. It also involves software for point cloud processing, flight planning, data fusion, and 3D modeling. Midstream participants include LiDAR sensor manufacturers, UAV payload integrators, surveying equipment companies, and drone manufacturers.

Their competitiveness is mainly reflected in system integration capability, calibration accuracy, operational stability, lightweight design, and software processing capability. Downstream customers are mainly from surveying and mapping, forestry, agriculture, power and energy, mining, transportation infrastructure, construction engineering, public safety, and research institutions, with purchasing decisions driven by accuracy, efficiency, platform compatibility, data processing capability, and after-sales support.

From a market perspective, Drone Detection Radar System is evolving from a specialized surveying tool into a cross-industry digital infrastructure solution. With improvements in UAV payload capacity, LiDAR sensor miniaturization, GNSS/IMU accuracy, and point cloud processing software, the adoption threshold continues to decline, while applications are expanding from traditional topographic mapping to power inspection, forestry resource survey, mining management, infrastructure digitization, and disaster response. Future competition will no longer be driven solely by hardware specifications, but increasingly by system integration capability, data processing efficiency, industry-specific solutions, and service networks. Companies with high-precision measurement capability, stable UAV platform compatibility, and a complete software ecosystem are expected to maintain stronger competitiveness in the mid- to high-end market.

This report studies the global Drone Detection Radar Systems demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Drone Detection Radar Systems, 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 Drone Detection Radar Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Drone Detection Radar Systems total market, 2021-2032, (USD Million)

Global Drone Detection Radar Systems total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Drone Detection Radar Systems total market, key domestic companies, and share, (USD Million)

Global Drone Detection Radar Systems revenue by player, revenue and market share 2021-2026, (USD Million)

Global Drone Detection Radar Systems total market by Type, CAGR, 2021-2032, (USD Million)

Global Drone Detection Radar Systems total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Drone Detection Radar Systems market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include RIEGL, YellowScan, Phoenix LiDAR Systems, Teledyne Optech, Emesent, GeoLas Systems, Leica Geosystems, LiDARUSA, Routescene, SatLab Geosolutions, 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 Drone Detection Radar Systems market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Drone Detection Radar Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Drone Detection Radar Systems Market, Segmentation by Type:

Integrated

Modular

Lightweight

Global Drone Detection Radar Systems Market, Segmentation by Surveying Accuracy:

Survey Grade

Industrial Inspection Grade

Consumer Grade

Global Drone Detection Radar Systems Market, Segmentation by Detection Technology:

Short-Range LiDAR

Medium-Range LiDAR

Long-Range LiDAR

Global Drone Detection Radar Systems Market, Segmentation by Application:

Mapping and Land Surveying

Forestry and Agriculture

Power and Infrastructure Inspection

Mining and Construction

Others

Companies Profiled:

RIEGL

YellowScan

Phoenix LiDAR Systems

Teledyne Optech

Emesent

GeoLas Systems

Leica Geosystems

LiDARUSA

Routescene

SatLab Geosolutions

Rock Robotic

Microdrones

TOPODRONE

DJI

CHCNAV

Hi-Target

South Surveying

GreenValley

Geosun Navigation

SureStar

GeoCue

Inertial Labs

AEVEX

Balko Technologies

LidarSwiss Solutions

Aerial Precision

ASTRALiTe

Key Questions Answered

1. How big is the global Drone Detection Radar Systems market?
2. What is the demand of the global Drone Detection Radar Systems market?
3. What is the year over year growth of the global Drone Detection Radar Systems market?
4. What is the total value of the global Drone Detection Radar Systems market?
5. Who are the Major Players in the global Drone Detection Radar Systems market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

1.1 Drone Detection Radar Systems Introduction

1.2 World Drone Detection Radar Systems Market Size & Forecast (2021 & 2025 & 2032)

1.3 World Drone Detection Radar Systems Total Market by Region (by Headquarter Location)

1.3.1 World Drone Detection Radar Systems Market Size by Region (2021-2032), (by Headquarter Location)

1.3.2 United States Based Company Drone Detection Radar Systems Revenue (2021-2032)

1.3.3 China Based Company Drone Detection Radar Systems Revenue (2021-2032)

1.3.4 Europe Based Company Drone Detection Radar Systems Revenue (2021-2032)

1.3.5 Japan Based Company Drone Detection Radar Systems Revenue (2021-2032)

1.3.6 South Korea Based Company Drone Detection Radar Systems Revenue (2021-2032)

1.3.7 ASEAN Based Company Drone Detection Radar Systems Revenue (2021-2032)

1.3.8 India Based Company Drone Detection Radar Systems Revenue (2021-2032)

1.4 Market Drivers, Restraints and Trends

1.4.1 Drone Detection Radar Systems Market Drivers

1.4.2 Factors Affecting Demand

1.4.3 Major Market Trends

2 DEMAND SUMMARY

2.1 World Drone Detection Radar Systems Consumption Value (2021-2032)

2.2 World Drone Detection Radar Systems Consumption Value by Region

2.2.1 World Drone Detection Radar Systems Consumption Value by Region (2021-2026)

2.2.2 World Drone Detection Radar Systems Consumption Value Forecast by Region (2027-2032)

2.3 United States Drone Detection Radar Systems Consumption Value (2021-2032)

2.4 China Drone Detection Radar Systems Consumption Value (2021-2032)

2.5 Europe Drone Detection Radar Systems Consumption Value (2021-2032)

2.6 Japan Drone Detection Radar Systems Consumption Value (2021-2032)

2.7 South Korea Drone Detection Radar Systems Consumption Value (2021-2032)

2.8 ASEAN Drone Detection Radar Systems Consumption Value (2021-2032)

2.9 India Drone Detection Radar Systems Consumption Value (2021-2032)

3 WORLD DRONE DETECTION RADAR SYSTEMS COMPANIES COMPETITIVE ANALYSIS

3.1 World Drone Detection Radar Systems Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global Drone Detection Radar Systems Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for Drone Detection Radar Systems in 2025

3.2.3 Global Concentration Ratios (CR8) for Drone Detection Radar Systems in 2025

3.3 Drone Detection Radar Systems Company Evaluation Quadrant

3.4 Drone Detection Radar Systems Market: Overall Company Footprint Analysis

3.4.1 Drone Detection Radar Systems Market: Region Footprint

3.4.2 Drone Detection Radar Systems Market: Company Product Type Footprint

3.4.3 Drone Detection Radar Systems Market: Company Product Application Footprint

3.5 Competitive Environment

3.5.1 Historical Structure of the Industry

3.5.2 Barriers of Market Entry

3.5.3 Factors of Competition

3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Drone Detection Radar Systems Revenue Comparison (by Headquarter Location)

4.1.1 United States VS China: Drone Detection Radar Systems Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)

4.1.2 United States VS China: Drone Detection Radar Systems Revenue Market Share Comparison (2021 & 2025 & 2032)

4.2 United States Based Companies VS China Based Companies: Drone Detection Radar Systems Consumption Value Comparison

4.2.1 United States VS China: Drone Detection Radar Systems Consumption Value Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Drone Detection Radar Systems Consumption Value Market Share Comparison (2021 & 2025 & 2032)

4.3 United States Based Drone Detection Radar Systems Companies and Market Share, 2021-2026

4.3.1 United States Based Drone Detection Radar Systems Companies, Headquarters

(States, Country)

4.3.2 United States Based Companies Drone Detection Radar Systems Revenue, (2021-2026)

4.4 China Based Companies Drone Detection Radar Systems Revenue and Market Share, 2021-2026

4.4.1 China Based Drone Detection Radar Systems Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Drone Detection Radar Systems Revenue, (2021-2026)

4.5 Rest of World Based Drone Detection Radar Systems Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Drone Detection Radar Systems Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Drone Detection Radar Systems Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Drone Detection Radar Systems Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Integrated

5.2.2 Modular

5.2.3 Lightweight

5.3 Market Segment by Type

5.3.1 World Drone Detection Radar Systems Market Size by Type (2021-2026)

5.3.2 World Drone Detection Radar Systems Market Size by Type (2027-2032)

5.3.3 World Drone Detection Radar Systems Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY SURVEYING ACCURACY

6.1 World Drone Detection Radar Systems Market Size Overview by Surveying Accuracy: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Surveying Accuracy

6.2.1 Survey Grade

6.2.2 Industrial Inspection Grade

6.2.3 Consumer Grade

6.3 Market Segment by Surveying Accuracy

6.3.1 World Drone Detection Radar Systems Market Size by Surveying Accuracy (2021-2026)

6.3.2 World Drone Detection Radar Systems Market Size by Surveying Accuracy (2027-2032)

6.3.3 World Drone Detection Radar Systems Market Size Market Share by Surveying Accuracy (2027-2032)

7 MARKET ANALYSIS BY DETECTION TECHNOLOGY

7.1 World Drone Detection Radar Systems Market Size Overview by Detection Technology: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Detection Technology

7.2.1 Short-Range LiDAR

7.2.2 Medium-Range LiDAR

7.2.3 Long-Range LiDAR

7.3 Market Segment by Detection Technology

7.3.1 World Drone Detection Radar Systems Market Size by Detection Technology (2021-2026)

7.3.2 World Drone Detection Radar Systems Market Size by Detection Technology (2027-2032)

7.3.3 World Drone Detection Radar Systems Market Size Market Share by Detection Technology (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Drone Detection Radar Systems Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Mapping and Land Surveying

8.2.2 Forestry and Agriculture

8.2.3 Power and Infrastructure Inspection

8.2.4 Mining and Construction

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Drone Detection Radar Systems Market Size by Application (2021-2026)

8.3.2 World Drone Detection Radar Systems Market Size by Application (2027-2032)

8.3.3 World Drone Detection Radar Systems Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 RIEGL

9.1.1 RIEGL Details

9.1.2 RIEGL Major Business

9.1.3 RIEGL Drone Detection Radar Systems Product and Services

9.1.4 RIEGL Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 RIEGL Recent Developments/Updates

9.1.6 RIEGL Competitive Strengths & Weaknesses

9.2 YellowScan

9.2.1 YellowScan Details

9.2.2 YellowScan Major Business

9.2.3 YellowScan Drone Detection Radar Systems Product and Services

9.2.4 YellowScan Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 YellowScan Recent Developments/Updates

9.2.6 YellowScan Competitive Strengths & Weaknesses

9.3 Phoenix LiDAR Systems

9.3.1 Phoenix LiDAR Systems Details

9.3.2 Phoenix LiDAR Systems Major Business

9.3.3 Phoenix LiDAR Systems Drone Detection Radar Systems Product and Services

9.3.4 Phoenix LiDAR Systems Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Phoenix LiDAR Systems Recent Developments/Updates

9.3.6 Phoenix LiDAR Systems Competitive Strengths & Weaknesses

9.4 Teledyne Optech

9.4.1 Teledyne Optech Details

9.4.2 Teledyne Optech Major Business

9.4.3 Teledyne Optech Drone Detection Radar Systems Product and Services

9.4.4 Teledyne Optech Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 Teledyne Optech Recent Developments/Updates

9.4.6 Teledyne Optech Competitive Strengths & Weaknesses

9.5 Emesent

9.5.1 Emesent Details

9.5.2 Emesent Major Business

9.5.3 Emesent Drone Detection Radar Systems Product and Services

9.5.4 Emesent Drone Detection Radar Systems Revenue, Gross Margin and Market

Share (2021-2026)

9.5.5 Emesent Recent Developments/Updates

9.5.6 Emesent Competitive Strengths & Weaknesses

9.6 GeoLas Systems

9.6.1 GeoLas Systems Details

9.6.2 GeoLas Systems Major Business

9.6.3 GeoLas Systems Drone Detection Radar Systems Product and Services

9.6.4 GeoLas Systems Drone Detection Radar Systems Revenue, Gross Margin and

Market Share (2021-2026)

9.6.5 GeoLas Systems Recent Developments/Updates

9.6.6 GeoLas Systems Competitive Strengths & Weaknesses

9.7 Leica Geosystems

9.7.1 Leica Geosystems Details

9.7.2 Leica Geosystems Major Business

9.7.3 Leica Geosystems Drone Detection Radar Systems Product and Services

9.7.4 Leica Geosystems Drone Detection Radar Systems Revenue, Gross Margin and

Market Share (2021-2026)

9.7.5 Leica Geosystems Recent Developments/Updates

9.7.6 Leica Geosystems Competitive Strengths & Weaknesses

9.8 LiDARUSA

9.8.1 LiDARUSA Details

9.8.2 LiDARUSA Major Business

9.8.3 LiDARUSA Drone Detection Radar Systems Product and Services

9.8.4 LiDARUSA Drone Detection Radar Systems Revenue, Gross Margin and Market

Share (2021-2026)

9.8.5 LiDARUSA Recent Developments/Updates

9.8.6 LiDARUSA Competitive Strengths & Weaknesses

9.9 Routescene

9.9.1 Routescene Details

9.9.2 Routescene Major Business

9.9.3 Routescene Drone Detection Radar Systems Product and Services

9.9.4 Routescene Drone Detection Radar Systems Revenue, Gross Margin and

Market Share (2021-2026)

9.9.5 Routescene Recent Developments/Updates

9.9.6 Routescene Competitive Strengths & Weaknesses

9.10 SatLab Geosolutions

9.10.1 SatLab Geosolutions Details

9.10.2 SatLab Geosolutions Major Business

9.10.3 SatLab Geosolutions Drone Detection Radar Systems Product and Services

9.10.4 SatLab Geosolutions Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)

9.10.5 SatLab Geosolutions Recent Developments/Updates

9.10.6 SatLab Geosolutions Competitive Strengths & Weaknesses

9.11 Rock Robotic

9.11.1 Rock Robotic Details

9.11.2 Rock Robotic Major Business

9.11.3 Rock Robotic Drone Detection Radar Systems Product and Services

9.11.4 Rock Robotic Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)

9.11.5 Rock Robotic Recent Developments/Updates

9.11.6 Rock Robotic Competitive Strengths & Weaknesses

9.12 Microdrones

9.12.1 Microdrones Details

9.12.2 Microdrones Major Business

9.12.3 Microdrones Drone Detection Radar Systems Product and Services

9.12.4 Microdrones Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)

9.12.5 Microdrones Recent Developments/Updates

9.12.6 Microdrones Competitive Strengths & Weaknesses

9.13 TOPODRONE

9.13.1 TOPODRONE Details

9.13.2 TOPODRONE Major Business

9.13.3 TOPODRONE Drone Detection Radar Systems Product and Services

9.13.4 TOPODRONE Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 TOPODRONE Recent Developments/Updates

9.13.6 TOPODRONE Competitive Strengths & Weaknesses

9.14 DJI

9.14.1 DJI Details

9.14.2 DJI Major Business

9.14.3 DJI Drone Detection Radar Systems Product and Services

9.14.4 DJI Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)

9.14.5 DJI Recent Developments/Updates

9.14.6 DJI Competitive Strengths & Weaknesses

9.15 CHCNAV

9.15.1 CHCNAV Details

9.15.2 CHCNAV Major Business

- 9.15.3 CHCNAV Drone Detection Radar Systems Product and Services
- 9.15.4 CHCNAV Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
- 9.15.5 CHCNAV Recent Developments/Updates
- 9.15.6 CHCNAV Competitive Strengths & Weaknesses
- 9.16 Hi-Target
 - 9.16.1 Hi-Target Details
 - 9.16.2 Hi-Target Major Business
 - 9.16.3 Hi-Target Drone Detection Radar Systems Product and Services
 - 9.16.4 Hi-Target Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Hi-Target Recent Developments/Updates
 - 9.16.6 Hi-Target Competitive Strengths & Weaknesses
- 9.17 South Surveying
 - 9.17.1 South Surveying Details
 - 9.17.2 South Surveying Major Business
 - 9.17.3 South Surveying Drone Detection Radar Systems Product and Services
 - 9.17.4 South Surveying Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 9.17.5 South Surveying Recent Developments/Updates
 - 9.17.6 South Surveying Competitive Strengths & Weaknesses
- 9.18 GreenValley
 - 9.18.1 GreenValley Details
 - 9.18.2 GreenValley Major Business
 - 9.18.3 GreenValley Drone Detection Radar Systems Product and Services
 - 9.18.4 GreenValley Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 9.18.5 GreenValley Recent Developments/Updates
 - 9.18.6 GreenValley Competitive Strengths & Weaknesses
- 9.19 Geosun Navigation
 - 9.19.1 Geosun Navigation Details
 - 9.19.2 Geosun Navigation Major Business
 - 9.19.3 Geosun Navigation Drone Detection Radar Systems Product and Services
 - 9.19.4 Geosun Navigation Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Geosun Navigation Recent Developments/Updates
 - 9.19.6 Geosun Navigation Competitive Strengths & Weaknesses
- 9.20 SureStar
 - 9.20.1 SureStar Details

- 9.20.2 SureStar Major Business
- 9.20.3 SureStar Drone Detection Radar Systems Product and Services
- 9.20.4 SureStar Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
- 9.20.5 SureStar Recent Developments/Updates
- 9.20.6 SureStar Competitive Strengths & Weaknesses
- 9.21 GeoCue
 - 9.21.1 GeoCue Details
 - 9.21.2 GeoCue Major Business
 - 9.21.3 GeoCue Drone Detection Radar Systems Product and Services
 - 9.21.4 GeoCue Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 9.21.5 GeoCue Recent Developments/Updates
 - 9.21.6 GeoCue Competitive Strengths & Weaknesses
- 9.22 Inertial Labs
 - 9.22.1 Inertial Labs Details
 - 9.22.2 Inertial Labs Major Business
 - 9.22.3 Inertial Labs Drone Detection Radar Systems Product and Services
 - 9.22.4 Inertial Labs Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 9.22.5 Inertial Labs Recent Developments/Updates
 - 9.22.6 Inertial Labs Competitive Strengths & Weaknesses
- 9.23 AEVEX
 - 9.23.1 AEVEX Details
 - 9.23.2 AEVEX Major Business
 - 9.23.3 AEVEX Drone Detection Radar Systems Product and Services
 - 9.23.4 AEVEX Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 9.23.5 AEVEX Recent Developments/Updates
 - 9.23.6 AEVEX Competitive Strengths & Weaknesses
- 9.24 Balko Technologies
 - 9.24.1 Balko Technologies Details
 - 9.24.2 Balko Technologies Major Business
 - 9.24.3 Balko Technologies Drone Detection Radar Systems Product and Services
 - 9.24.4 Balko Technologies Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 9.24.5 Balko Technologies Recent Developments/Updates
 - 9.24.6 Balko Technologies Competitive Strengths & Weaknesses
- 9.25 LidarSwiss Solutions

- 9.25.1 LidarSwiss Solutions Details
- 9.25.2 LidarSwiss Solutions Major Business
- 9.25.3 LidarSwiss Solutions Drone Detection Radar Systems Product and Services
- 9.25.4 LidarSwiss Solutions Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
- 9.25.5 LidarSwiss Solutions Recent Developments/Updates
- 9.25.6 LidarSwiss Solutions Competitive Strengths & Weaknesses
- 9.26 Aerial Precision
 - 9.26.1 Aerial Precision Details
 - 9.26.2 Aerial Precision Major Business
 - 9.26.3 Aerial Precision Drone Detection Radar Systems Product and Services
 - 9.26.4 Aerial Precision Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 9.26.5 Aerial Precision Recent Developments/Updates
 - 9.26.6 Aerial Precision Competitive Strengths & Weaknesses
- 9.27 ASTRALiTe
 - 9.27.1 ASTRALiTe Details
 - 9.27.2 ASTRALiTe Major Business
 - 9.27.3 ASTRALiTe Drone Detection Radar Systems Product and Services
 - 9.27.4 ASTRALiTe Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026)
 - 9.27.5 ASTRALiTe Recent Developments/Updates
 - 9.27.6 ASTRALiTe Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Drone Detection Radar Systems Industry Chain
- 10.2 Drone Detection Radar Systems Upstream Analysis
- 10.3 Drone Detection Radar Systems Midstream Analysis
- 10.4 Drone Detection Radar Systems Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Drone Detection Radar Systems Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Drone Detection Radar Systems Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Drone Detection Radar Systems Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Drone Detection Radar Systems Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Drone Detection Radar Systems Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Drone Detection Radar Systems Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Drone Detection Radar Systems Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Drone Detection Radar Systems Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Drone Detection Radar Systems Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Drone Detection Radar Systems Players in 2025

Table 12. World Drone Detection Radar Systems Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Drone Detection Radar Systems Company Evaluation Quadrant

Table 14. Head Office of Key Drone Detection Radar Systems Players

Table 15. Drone Detection Radar Systems Market: Company Product Type Footprint

Table 16. Drone Detection Radar Systems Market: Company Product Application Footprint

Table 17. Drone Detection Radar Systems Mergers & Acquisitions Activity

Table 18. United States VS China Drone Detection Radar Systems Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Drone Detection Radar Systems Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Drone Detection Radar Systems Companies, Headquarters (States, Country)

Table 21. United States Based Companies Drone Detection Radar Systems Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies Drone Detection Radar Systems Revenue Market Share (2021-2026)

Table 23. China Based Drone Detection Radar Systems Companies, Headquarters (Province, Country)

Table 24. China Based Companies Drone Detection Radar Systems Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Drone Detection Radar Systems Revenue Market Share (2021-2026)

Table 26. Rest of World Based Drone Detection Radar Systems Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Drone Detection Radar Systems Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Drone Detection Radar Systems Revenue Market Share (2021-2026)

Table 29. World Drone Detection Radar Systems Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Drone Detection Radar Systems Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Drone Detection Radar Systems Market Size by Type (2027-2032) & (USD Million)

Table 32. World Drone Detection Radar Systems Market Size by Surveying Accuracy, (USD Million), 2021 & 2025 & 2032

Table 33. World Drone Detection Radar Systems Market Size Value by Surveying Accuracy (2021-2026) & (USD Million)

Table 34. World Drone Detection Radar Systems Market Size by Surveying Accuracy (2027-2032) & (USD Million)

Table 35. World Drone Detection Radar Systems Market Size by Detection Technology, (USD Million), 2021 & 2025 & 2032

Table 36. World Drone Detection Radar Systems Market Size Value by Detection Technology (2021-2026) & (USD Million)

Table 37. World Drone Detection Radar Systems Market Size by Detection Technology (2027-2032) & (USD Million)

Table 38. World Drone Detection Radar Systems Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Drone Detection Radar Systems Market Size by Application (2021-2026) & (USD Million)

Table 40. World Drone Detection Radar Systems Market Size by Application

(2027-2032) & (USD Million)

Table 41. RIEGL Basic Information, Manufacturing Base and Competitors

Table 42. RIEGL Major Business

Table 43. RIEGL Drone Detection Radar Systems Product and Services

Table 44. RIEGL Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. RIEGL Recent Developments/Updates

Table 46. RIEGL Competitive Strengths & Weaknesses

Table 47. YellowScan Basic Information, Manufacturing Base and Competitors

Table 48. YellowScan Major Business

Table 49. YellowScan Drone Detection Radar Systems Product and Services

Table 50. YellowScan Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. YellowScan Recent Developments/Updates

Table 52. YellowScan Competitive Strengths & Weaknesses

Table 53. Phoenix LiDAR Systems Basic Information, Manufacturing Base and Competitors

Table 54. Phoenix LiDAR Systems Major Business

Table 55. Phoenix LiDAR Systems Drone Detection Radar Systems Product and Services

Table 56. Phoenix LiDAR Systems Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Phoenix LiDAR Systems Recent Developments/Updates

Table 58. Phoenix LiDAR Systems Competitive Strengths & Weaknesses

Table 59. Teledyne Optech Basic Information, Manufacturing Base and Competitors

Table 60. Teledyne Optech Major Business

Table 61. Teledyne Optech Drone Detection Radar Systems Product and Services

Table 62. Teledyne Optech Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Teledyne Optech Recent Developments/Updates

Table 64. Teledyne Optech Competitive Strengths & Weaknesses

Table 65. Emesent Basic Information, Manufacturing Base and Competitors

Table 66. Emesent Major Business

Table 67. Emesent Drone Detection Radar Systems Product and Services

Table 68. Emesent Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 69. Emesent Recent Developments/Updates

Table 70. Emesent Competitive Strengths & Weaknesses

Table 71. GeoLas Systems Basic Information, Manufacturing Base and Competitors

Table 72. GeoLas Systems Major Business
Table 73. GeoLas Systems Drone Detection Radar Systems Product and Services
Table 74. GeoLas Systems Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 75. GeoLas Systems Recent Developments/Updates
Table 76. GeoLas Systems Competitive Strengths & Weaknesses
Table 77. Leica Geosystems Basic Information, Manufacturing Base and Competitors
Table 78. Leica Geosystems Major Business
Table 79. Leica Geosystems Drone Detection Radar Systems Product and Services
Table 80. Leica Geosystems Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 81. Leica Geosystems Recent Developments/Updates
Table 82. Leica Geosystems Competitive Strengths & Weaknesses
Table 83. LiDARUSA Basic Information, Manufacturing Base and Competitors
Table 84. LiDARUSA Major Business
Table 85. LiDARUSA Drone Detection Radar Systems Product and Services
Table 86. LiDARUSA Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 87. LiDARUSA Recent Developments/Updates
Table 88. LiDARUSA Competitive Strengths & Weaknesses
Table 89. Routscape Basic Information, Manufacturing Base and Competitors
Table 90. Routscape Major Business
Table 91. Routscape Drone Detection Radar Systems Product and Services
Table 92. Routscape Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 93. Routscape Recent Developments/Updates
Table 94. Routscape Competitive Strengths & Weaknesses
Table 95. SatLab Geosolutions Basic Information, Manufacturing Base and Competitors
Table 96. SatLab Geosolutions Major Business
Table 97. SatLab Geosolutions Drone Detection Radar Systems Product and Services
Table 98. SatLab Geosolutions Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 99. SatLab Geosolutions Recent Developments/Updates
Table 100. SatLab Geosolutions Competitive Strengths & Weaknesses
Table 101. Rock Robotic Basic Information, Manufacturing Base and Competitors
Table 102. Rock Robotic Major Business
Table 103. Rock Robotic Drone Detection Radar Systems Product and Services
Table 104. Rock Robotic Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 105. Rock Robotic Recent Developments/Updates
Table 106. Rock Robotic Competitive Strengths & Weaknesses
Table 107. Microdrones Basic Information, Manufacturing Base and Competitors
Table 108. Microdrones Major Business
Table 109. Microdrones Drone Detection Radar Systems Product and Services
Table 110. Microdrones Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. Microdrones Recent Developments/Updates
Table 112. Microdrones Competitive Strengths & Weaknesses
Table 113. TOPODRONE Basic Information, Manufacturing Base and Competitors
Table 114. TOPODRONE Major Business
Table 115. TOPODRONE Drone Detection Radar Systems Product and Services
Table 116. TOPODRONE Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. TOPODRONE Recent Developments/Updates
Table 118. TOPODRONE Competitive Strengths & Weaknesses
Table 119. DJI Basic Information, Manufacturing Base and Competitors
Table 120. DJI Major Business
Table 121. DJI Drone Detection Radar Systems Product and Services
Table 122. DJI Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 123. DJI Recent Developments/Updates
Table 124. DJI Competitive Strengths & Weaknesses
Table 125. CHCNAV Basic Information, Manufacturing Base and Competitors
Table 126. CHCNAV Major Business
Table 127. CHCNAV Drone Detection Radar Systems Product and Services
Table 128. CHCNAV Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 129. CHCNAV Recent Developments/Updates
Table 130. CHCNAV Competitive Strengths & Weaknesses
Table 131. Hi-Target Basic Information, Manufacturing Base and Competitors
Table 132. Hi-Target Major Business
Table 133. Hi-Target Drone Detection Radar Systems Product and Services
Table 134. Hi-Target Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 135. Hi-Target Recent Developments/Updates
Table 136. Hi-Target Competitive Strengths & Weaknesses
Table 137. South Surveying Basic Information, Manufacturing Base and Competitors
Table 138. South Surveying Major Business

Table 139. South Surveying Drone Detection Radar Systems Product and Services
Table 140. South Surveying Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 141. South Surveying Recent Developments/Updates
Table 142. South Surveying Competitive Strengths & Weaknesses
Table 143. GreenValley Basic Information, Manufacturing Base and Competitors
Table 144. GreenValley Major Business
Table 145. GreenValley Drone Detection Radar Systems Product and Services
Table 146. GreenValley Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 147. GreenValley Recent Developments/Updates
Table 148. GreenValley Competitive Strengths & Weaknesses
Table 149. Geosun Navigation Basic Information, Manufacturing Base and Competitors
Table 150. Geosun Navigation Major Business
Table 151. Geosun Navigation Drone Detection Radar Systems Product and Services
Table 152. Geosun Navigation Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 153. Geosun Navigation Recent Developments/Updates
Table 154. Geosun Navigation Competitive Strengths & Weaknesses
Table 155. SureStar Basic Information, Manufacturing Base and Competitors
Table 156. SureStar Major Business
Table 157. SureStar Drone Detection Radar Systems Product and Services
Table 158. SureStar Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 159. SureStar Recent Developments/Updates
Table 160. SureStar Competitive Strengths & Weaknesses
Table 161. GeoCue Basic Information, Manufacturing Base and Competitors
Table 162. GeoCue Major Business
Table 163. GeoCue Drone Detection Radar Systems Product and Services
Table 164. GeoCue Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 165. GeoCue Recent Developments/Updates
Table 166. GeoCue Competitive Strengths & Weaknesses
Table 167. Inertial Labs Basic Information, Manufacturing Base and Competitors
Table 168. Inertial Labs Major Business
Table 169. Inertial Labs Drone Detection Radar Systems Product and Services
Table 170. Inertial Labs Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 171. Inertial Labs Recent Developments/Updates

Table 172. Inertial Labs Competitive Strengths & Weaknesses
Table 173. AEVEX Basic Information, Manufacturing Base and Competitors
Table 174. AEVEX Major Business
Table 175. AEVEX Drone Detection Radar Systems Product and Services
Table 176. AEVEX Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 177. AEVEX Recent Developments/Updates
Table 178. AEVEX Competitive Strengths & Weaknesses
Table 179. Balko Technologies Basic Information, Manufacturing Base and Competitors
Table 180. Balko Technologies Major Business
Table 181. Balko Technologies Drone Detection Radar Systems Product and Services
Table 182. Balko Technologies Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 183. Balko Technologies Recent Developments/Updates
Table 184. Balko Technologies Competitive Strengths & Weaknesses
Table 185. LidarSwiss Solutions Basic Information, Manufacturing Base and Competitors
Table 186. LidarSwiss Solutions Major Business
Table 187. LidarSwiss Solutions Drone Detection Radar Systems Product and Services
Table 188. LidarSwiss Solutions Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 189. LidarSwiss Solutions Recent Developments/Updates
Table 190. LidarSwiss Solutions Competitive Strengths & Weaknesses
Table 191. Aerial Precision Basic Information, Manufacturing Base and Competitors
Table 192. Aerial Precision Major Business
Table 193. Aerial Precision Drone Detection Radar Systems Product and Services
Table 194. Aerial Precision Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 195. Aerial Precision Recent Developments/Updates
Table 196. Aerial Precision Competitive Strengths & Weaknesses
Table 197. ASTRALiTe Basic Information, Manufacturing Base and Competitors
Table 198. ASTRALiTe Major Business
Table 199. ASTRALiTe Drone Detection Radar Systems Product and Services
Table 200. ASTRALiTe Drone Detection Radar Systems Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 201. ASTRALiTe Recent Developments/Updates
Table 202. ASTRALiTe Competitive Strengths & Weaknesses
Table 203. Global Key Players of Drone Detection Radar Systems Upstream (Raw Materials)

Table 204. Global Drone Detection Radar Systems Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Drone Detection Radar Systems Picture

Figure 2. World Drone Detection Radar Systems Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Drone Detection Radar Systems Total Revenue (2021-2032) & (USD Million)

Figure 4. World Drone Detection Radar Systems Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Drone Detection Radar Systems Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Drone Detection Radar Systems Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Drone Detection Radar Systems Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Drone Detection Radar Systems Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Drone Detection Radar Systems Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Drone Detection Radar Systems Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Drone Detection Radar Systems Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Drone Detection Radar Systems Revenue (2021-2032) & (USD Million)

Figure 13. Drone Detection Radar Systems Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Drone Detection Radar Systems Consumption Value (2021-2032) & (USD Million)

Figure 16. World Drone Detection Radar Systems Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Drone Detection Radar Systems Consumption Value (2021-2032) & (USD Million)

Figure 18. China Drone Detection Radar Systems Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Drone Detection Radar Systems Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Drone Detection Radar Systems Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Drone Detection Radar Systems Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Drone Detection Radar Systems Consumption Value (2021-2032) & (USD Million)

Figure 23. India Drone Detection Radar Systems Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Drone Detection Radar Systems by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Drone Detection Radar Systems Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Drone Detection Radar Systems Markets in 2025

Figure 27. United States VS China: Drone Detection Radar Systems Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Drone Detection Radar Systems Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Drone Detection Radar Systems Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Drone Detection Radar Systems Market Size Market Share by Type in 2025

Figure 31. Integrated

Figure 32. Modular

Figure 33. Lightweight

Figure 34. World Drone Detection Radar Systems Market Size Market Share by Type (2021-2032)

Figure 35. World Drone Detection Radar Systems Market Size by Surveying Accuracy, (USD Million), 2021 & 2025 & 2032

Figure 36. World Drone Detection Radar Systems Market Size Market Share by Surveying Accuracy in 2025

Figure 37. Survey Grade

Figure 38. Industrial Inspection Grade

Figure 39. Consumer Grade

Figure 40. World Drone Detection Radar Systems Market Size Market Share by Surveying Accuracy (2021-2032)

Figure 41. World Drone Detection Radar Systems Market Size by Detection Technology, (USD Million), 2021 & 2025 & 2032

Figure 42. World Drone Detection Radar Systems Market Size Market Share by

Detection Technology in 2025

Figure 43. Short-Range LiDAR

Figure 44. Medium-Range LiDAR

Figure 45. Long-Range LiDAR

Figure 46. World Drone Detection Radar Systems Market Size Market Share by Detection Technology (2021-2032)

Figure 47. World Drone Detection Radar Systems Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 48. World Drone Detection Radar Systems Market Size Market Share by Application in 2025

Figure 49. Mapping and Land Surveying

Figure 50. Forestry and Agriculture

Figure 51. Power and Infrastructure Inspection

Figure 52. Mining and Construction

Figure 53. Others

Figure 54. World Drone Detection Radar Systems Market Size Market Share by Application (2021-2032)

Figure 55. Drone Detection Radar Systems Industrial Chain

Figure 56. Methodology

Figure 57. Research Process and Data Source

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