

# **LiDAR Drone Market by LiDAR Type (Topographic, Bathymetric), By Component (LiDAR Lasers, UAV Cameras), Drone Type (Rotary-wing, Fixed-wing), Range (Short-range, Medium-range, Long-range), Application, Region - Global Forecast to 2027**

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## **Abstracts**

The LiDAR Drone market is projected to grow from USD 147 million in 2022 to USD 508 million in 2027; it is expected to grow at a CAGR of 28.1% during the forecasted period. LiDAR drone's adoption in mining application is driving the growth as mine operators are leveraging LiDAR drone technology to improve data quality, increase safety, and reduce operational expenses; while growing adoption of new and advanced technologies has led to an increased demand for LiDAR drones for precision farming applications.

"Market for medium-range LiDAR drone is expected to grow at highest CAGR during the forecasted period."

Medium-range LiDAR drones offer high accuracy and operate in a 200–500m range. These LiDAR drones are heavy and are suitable for medium-scale corridor mapping, forestry, coastline management, and agriculture applications. In many countries, commercial drones can fly at an altitude of 200–500m without requiring additional permission from regulatory bodies.

"Market for corridor mapping application is to grow at highest CAGR during forecast period. "

LiDAR drones are used to create 3D maps of terrains using short-range, medium-range, or long-range lasers. They are used for corridor mapping by surveying and creating a

3D point cloud of roads, railways, power lines, and mines. LiDAR drones flying at low altitudes are preferable for corridor mapping applications, as they collect data accurately. They are used to carry out corridor mapping for the transportation sector to support the planning and management of roads or railway tracks, which require high spatial resolution and accurate mapping. Thus, such various applications of LiDAR drone in corridor mapping is expected to create significant demand in coming years.

“APAC to offer significant growth opportunities for LiDAR drone market between 2022 and 2027.”

In Asia Pacific, LiDAR drones are majorly used in environmental, corridor mapping, and precision agriculture applications. The market growth in the region can be attributed to the increased adoption of LiDAR drones for surveying and mapping operations owing to ongoing infrastructural development projects, growing awareness in Asia Pacific countries about forest management, and increasing mining activities in the region. Precision agriculture is also expected to drive the market in the region.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key industry experts in the LiDAR Drone marketplace. The break-up of primary participants for the report has been shown below:

By Company Type: Tier 1 – 55%, Tier 2 – 30%, and Tier 3 – 15%

By Designation: C-level Executives – 45%, Directors – 35%, and Others – 20%

By Region: North America – 34%, APAC – 31%, Europe – 24%, and RoW – 12%

The report profiles key players in the LiDAR drone market with their respective market ranking analysis. Prominent players profiled in this report are Velodyne Lidar, Inc.(US), RIEGL Laser Measurement Systems GmbH(Austria), Teledyne Optech Inc.(Canada), Phoenix LiDAR Systems(US), Microdrones (Germany), YellowScan(France), UMS Skeldar(Switzerland), LIDARUSA(US), SICK AG (Germany), and GeoCue Group (US).

Research Coverage:

This research report categorizes the LiDAR drone market on the basis LiDAR type,

component, drone type, range, application, and region. The report describes the major drivers, restraints, challenges, and opportunities pertaining to the LiDAR Drone market and forecasts the same till 2027. Apart from these, the report also consists of leadership mapping and analysis of all the companies included in the LiDAR Drone ecosystem.

### Key Benefits of Buying the Report

The report will help market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall LiDAR Drone market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION AND SCOPE

##### 1.2.1 INCLUSIONS AND EXCLUSIONS

#### 1.3 STUDY SCOPE

##### 1.3.1 MARKETS COVERED

#### FIGURE 1 LIDAR DRONE MARKET: GEOGRAPHIC SEGMENTATION

##### 1.3.2 GEOGRAPHIC SCOPE

##### 1.3.3 YEARS CONSIDERED

#### 1.4 CURRENCY CONSIDERED

#### 1.5 LIMITATIONS

#### 1.6 STAKEHOLDERS

#### 1.7 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 2 LIDAR DRONE MARKET: RESEARCH DESIGN

##### 2.1.1 SECONDARY AND PRIMARY RESEARCH

##### 2.1.2 SECONDARY DATA

###### 2.1.2.1 List of key secondary sources

###### 2.1.2.2 Secondary sources

##### 2.1.3 PRIMARY DATA

###### 2.1.3.1 Primary interviews with experts

###### 2.1.3.2 List of key primary interview participants

###### 2.1.3.3 Breakdown of primaries

###### 2.1.3.4 Key data from primary sources

###### 2.1.3.5 Key industry insights

#### 2.2 MARKET SIZE ESTIMATION

##### 2.2.1 BOTTOM-UP APPROACH

###### 2.2.1.1 Approach for arriving at market share by bottom-up analysis (demand side)

#### FIGURE 3 LIDAR DRONE MARKET: BOTTOM-UP APPROACH

##### 2.2.2 TOP-DOWN APPROACH

###### 2.2.2.1 Approach for capturing market share by top-down analysis (supply side)

#### FIGURE 4 LIDAR DRONE MARKET: TOP-DOWN APPROACH

#### FIGURE 5 LIDAR DRONE MARKET: SUPPLY-SIDE ANALYSIS

## 2.3 MARKET BREAKDOWN AND DATA TRIANGULATION

### FIGURE 6 DATA TRIANGULATION

## 2.4 RESEARCH ASSUMPTIONS

## 3 EXECUTIVE SUMMARY

FIGURE 7 LIDAR DRONE MARKET, 2018–2027 (USD MILLION)

FIGURE 8 TOPOGRAPHIC LIDAR TO HOLD LARGEST MARKET SHARE  
THROUGHOUT FORECAST PERIOD

FIGURE 9 LIDAR LASERS TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

FIGURE 10 ROTARY-WING LIDAR DRONES TO GROW AT HIGHEST CAGR FROM

### 2022 TO 2027

FIGURE 11 CORRIDOR MAPPING TO HOLD LARGEST SHARE OF LIDAR DRONE  
MARKET IN 2027

FIGURE 12 NORTH AMERICA EXPECTED TO HOLD LARGEST MARKET SHARE  
DURING FORECAST PERIOD

## 4 PREMIUM INSIGHTS

### 4.1 ATTRACTIVE GROWTH OPPORTUNITIES FOR MARKET PLAYERS

FIGURE 13 ADOPTION OF LIDAR DRONES IN MINING APPLICATIONS TO BOOST  
MARKET GROWTH

### 4.2 LIDAR DRONE MARKET, BY LIDAR TYPE

FIGURE 14 TOPOGRAPHIC LIDAR TO HOLD LARGER MARKET SIZE IN 2027

### 4.3 LIDAR DRONE MARKET, BY COMPONENT

FIGURE 15 LIDAR LASERS TO DOMINATE LIDAR DRONE MARKET IN 2027

### 4.4 LIDAR DRONE MARKET, BY DRONE TYPE

FIGURE 16 ROTARY-WING LIDAR DRONES TO GROW AT HIGHER CAGR DURING  
FORECAST PERIOD

### 4.5 LIDAR DRONE MARKET IN NORTH AMERICA, BY COUNTRY AND APPLICATION

FIGURE 17 US AND CORRIDOR MAPPING TO ACCOUNT FOR LARGEST MARKET  
SHARES IN NORTH AMERICA IN 2027

### 4.6 LIDAR DRONE MARKET, BY COUNTRY

FIGURE 18 US TO HOLD LARGEST SHARE OF LIDAR DRONE MARKET IN 2027

## 5 MARKET OVERVIEW

## 5.1 INTRODUCTION

## 5.2 MARKET DYNAMICS

### FIGURE 19 LIDAR DRONE MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

#### 5.2.1 DRIVERS

5.2.1.1 Adoption of LiDAR drones in mining applications

5.2.1.2 Easing of regulations related to use of commercial drones

5.2.1.3 Growing demand for LiDAR drones for corridor mapping and precision agriculture applications

### FIGURE 20 LIDAR DRONE MARKET: IMPACT ANALYSIS OF DRIVERS

#### 5.2.2 RESTRAINTS

5.2.2.1 Easy availability of low-cost and lightweight photogrammetry systems

5.2.2.2 Stringent regulations and restrictions related to use of drones in various countries

### FIGURE 21 LIDAR DRONE MARKET: IMPACT ANALYSIS OF RESTRAINTS

#### 5.2.3 OPPORTUNITIES

5.2.3.1 Government initiatives encourage use of LiDAR drones for large-scale surveys

5.2.3.2 Emergence of 4D LiDAR sensors

### FIGURE 22 LIDAR DRONE MARKET: IMPACT ANALYSIS OF OPPORTUNITIES

#### 5.2.4 CHALLENGES

5.2.4.1 High purchasing and operational costs of LiDAR drones

5.2.4.2 Issues related to drone safety and security

### FIGURE 23 LIDAR DRONE MARKET: IMPACT ANALYSIS OF CHALLENGES

## 5.3 VALUE CHAIN ANALYSIS

### FIGURE 24 LIDAR DRONE MARKET: MAJOR VALUE ADDITION BY MANUFACTURERS OF LIDAR DRONE COMPONENTS AND THEIR INTEGRATORS AND DISTRIBUTORS

## 5.4 LIDAR DRONE MARKET: ECOSYSTEM

### FIGURE 25 LIDAR DRONE MARKET: ECOSYSTEM

### TABLE 1 LIDAR DRONE MARKET: ECOSYSTEM

## 5.5 PRICING ANALYSIS

### TABLE 2 AVERAGE SELLING PRICES OF LIDAR DRONE COMPONENTS OFFERED BY TOP COMPANIES, 2021

### TABLE 3 INDICATIVE PRICES OF LIDAR DRONES

#### 5.5.1 AVERAGE SELLING PRICES OF KEY PLAYERS

### FIGURE 26 AVERAGE SELLING PRICES OF KEY PLAYERS, BY COMPONENT

### TABLE 4 AVERAGE SELLING PRICES OF KEY PLAYERS, BY COMPONENT (USD)

## 5.6 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS

## 5.7 TECHNOLOGY ANALYSIS

### 5.7.1 ARTIFICIAL INTELLIGENCE (AI)-POWERED LIDAR

### 5.7.2 LIDAR DRONE TECHNOLOGIES

#### 5.7.2.1 2D LiDAR Drones

#### 5.7.2.2 3D LiDAR Drones

#### 5.7.2.3 4D LiDAR Drones

## 5.8 PORTER'S FIVE FORCES ANALYSIS

TABLE 5 IMPACT OF PORTER'S FIVE FORCES ON LIDAR DRONE MARKET, 2021

## 5.9 KEY STAKEHOLDERS AND BUYING CRITERIA

### 5.9.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 27 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR TOP 3 APPLICATIONS

TABLE 6 INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR TOP 3 APPLICATIONS (%)

### 5.9.2 BUYING CRITERIA

FIGURE 28 KEY BUYING CRITERIA FOR TOP 3 APPLICATIONS

TABLE 7 KEY BUYING CRITERIA FOR TOP 3 APPLICATIONS

## 5.10 CASE STUDIES

5.10.1 VENTUS-TECH USED YELLOWSCAN'S SURVEYOR SYSTEM TO GENERATE PRECISE MAPPING DATA

5.10.2 GEODETICS USES VELODYNE COST-EFFICIENT LIDAR SENSORS

5.10.3 GEOTERRA AND FLYTHRU PARTNERED WITH NEATH PORT TALBOT COUNCIL AND EARTH SCIENCE TO SOLVE YSTALYFERA MOUNTAINSIDE ISSUE

5.10.4 SENSEFLY FIXED-WING DRONES HELPED PUBLIC POWER CORPORATION S.A. (PPC) CALCULATE LIGNITE VOLUMES

5.10.5 WITH HONEYWELL, IMU LIDAR USA ACHIEVED GREATER LOCATION ACCURACY ON GROUND AND IN AIR

## 5.11 TRADE ANALYSIS

FIGURE 29 IMPORT DATA, BY COUNTRY, 2017–2021 (USD MILLION)

FIGURE 30 EXPORT DATA, BY COUNTRY, 2017–2021 (USD MILLION)

## 5.12 PATENT ANALYSIS, 2012–2022

FIGURE 31 NUMBER OF PATENTS GRANTED PER YEAR FROM 2012 TO 2021

FIGURE 32 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS IN LAST 10 YEARS

TABLE 8 TOP 20 PATENT OWNERS IN LAST 10 YEARS

TABLE 9 LIST OF FEW PATENTS IN LIDAR DRONE MARKET, 2020–2021

## 5.13 KEY CONFERENCES AND EVENTS, 2022–2023

TABLE 10 LIDAR DRONE MARKET: DETAILED LIST OF CONFERENCES AND



## EVENTS

### 5.14 REGULATIONS AND STANDARDS

#### TABLE 11 REGULATIONS AND STANDARDS FOR LIDAR DRONES

##### 5.14.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

#### TABLE 12 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

#### TABLE 13 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

#### TABLE 14 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

## 6 LIDAR DRONE MARKET, BY LIDAR TYPE

### 6.1 INTRODUCTION

#### FIGURE 33 TOPOGRAPHIC LIDAR TO ACCOUNT FOR LARGEST MARKET SHARE IN 2027

#### TABLE 15 LIDAR DRONE MARKET, BY LIDAR TYPE, 2018–2021 (USD MILLION)

#### TABLE 16 LIDAR DRONE MARKET, BY LIDAR TYPE, 2022–2027 (USD MILLION)

### 6.2 TOPOGRAPHIC LIDAR

#### 6.2.1 HIGHLY ADOPTED IN MAPPING AND SURVEYING APPLICATIONS

### 6.3 BATHYMETRIC LIDAR

#### 6.3.1 PRODUCE HIGH-QUALITY UNDERWATER DATA

## 7 LIDAR DRONE MARKET, BY COMPONENT

### 7.1 INTRODUCTION

#### FIGURE 34 LIDAR LASERS SEGMENT PROJECTED TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

#### TABLE 17 LIDAR DRONE MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

#### TABLE 18 LIDAR DRONE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

### 7.2 LIDAR LASERS

#### 7.2.1 KEY COMPONENTS IN MEASURING LARGE DISTANCES

#### TABLE 19 LIDAR LASERS: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

#### TABLE 20 LIDAR LASERS: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

### 7.3 NAVIGATION AND POSITIONING SYSTEMS

#### 7.3.1 OBTAIN ACCURATE GEOGRAPHICAL INFORMATION IN LIDAR DRONES



TABLE 21 NAVIGATION AND POSITIONING SYSTEMS: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 22 NAVIGATION AND POSITIONING SYSTEMS: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

#### 7.4 UAV CAMERAS

7.4.1 COMBINE LIDAR DATA AND CAMERA IMAGES FOR ACCURATE, COLORED IMAGES

TABLE 23 UAV CAMERAS: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 24 UAV CAMERAS: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

#### 7.5 OTHERS

TABLE 25 OTHERS: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 26 OTHERS: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

### 8 LIDAR DRONE MARKET, BY DRONE TYPE

#### 8.1 INTRODUCTION

FIGURE 35 ROTARY-WING LIDAR DRONES TO GROW AT HIGHER CAGR FROM 2022 TO 2027

TABLE 27 LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 28 LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

#### 8.2 ROTARY-WING LIDAR DRONES

8.2.1 ROTARY-WING LIDAR DRONES ARE LOW-COST AND HIGHLY FLEXIBLE

TABLE 29 ROTARY-WING LIDAR DRONES: LIDAR DRONE MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 30 ROTARY-WING LIDAR DRONES: LIDAR DRONE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 31 ROTARY-WING LIDAR DRONES: LIDAR DRONE MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 32 ROTARY-WING LIDAR DRONES: LIDAR DRONE MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 33 ROTARY-WING LIDAR DRONES: LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 34 ROTARY-WING LIDAR DRONES: LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD MILLION)

#### 8.3 FIXED-WING LIDAR DRONES

### 8.3.1 FIXED-WING LIDAR DRONES HAVE SIGNIFICANT RANGE AND HIGH STABILITY

TABLE 35 FIXED-WING LIDAR DRONES: LIDAR DRONE MARKET, BY COMPONENT, 2018–2021 (USD MILLION)

TABLE 36 FIXED-WING LIDAR DRONES: LIDAR DRONE MARKET, BY COMPONENT, 2022–2027 (USD MILLION)

TABLE 37 FIXED-WING LIDAR DRONES: LIDAR DRONE MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 38 FIXED-WING LIDAR DRONES: LIDAR DRONE MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 39 FIXED-WING LIDAR DRONES: LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 40 FIXED-WING LIDAR DRONES: LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD MILLION)

## 9 LIDAR DRONE MARKET, BY RANGE

### 9.1 INTRODUCTION

FIGURE 36 MEDIUM-RANGE LIDAR DRONES PROJECTED TO GROW AT HIGHEST CAGR FROM 2022 TO 2027

TABLE 41 LIDAR DRONE MARKET, BY RANGE, 2018–2021 (USD MILLION)

TABLE 42 LIDAR DRONE MARKET, BY RANGE, 2022–2027 (USD MILLION)

### 9.2 SHORT-RANGE LIDAR DRONES

#### 9.2.1 USED TO CONDUCT SMALL-SCALE SURVEYS

### 9.3 MEDIUM-RANGE LIDAR DRONES

#### 9.3.1 SUITABLE FOR MEDIUM-SCALE MAPPING APPLICATIONS

### 9.4 LONG-RANGE LIDAR DRONES

#### 9.4.1 RISING DEPLOYMENT TO SCAN LARGE AREAS

## 10 LIDAR DRONE MARKET, BY APPLICATION

### 10.1 INTRODUCTION

FIGURE 37 CORRIDOR MAPPING TO ACCOUNT FOR LARGEST MARKET SHARE THROUGHOUT FORECAST PERIOD

TABLE 43 LIDAR DRONE MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 44 LIDAR DRONE MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 45 RECENT PROJECTS INVOLVING USE OF LIDAR DRONES

### 10.2 CORRIDOR MAPPING

#### 10.2.1 INCREASED ADOPTION OF LIDAR DRONES TO SURVEY DIFFICULT

## TERRAINS

TABLE 46 CORRIDOR MAPPING: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 47 CORRIDOR MAPPING: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

TABLE 48 CORRIDOR MAPPING: LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 49 CORRIDOR MAPPING: LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD MILLION)

### 10.3 ARCHAEOLOGY

10.3.1 LIDAR DRONES HELP IN SITE DOCUMENTATION AND 3D MODELING OF ARCHAEOLOGICAL SITES

TABLE 50 ARCHAEOLOGY: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 51 ARCHAEOLOGY: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

TABLE 52 ARCHAEOLOGY: LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 53 ARCHAEOLOGY: LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD MILLION)

### 10.4 CONSTRUCTION

10.4.1 LIDAR DRONES EMPLOYED TO SURVEY ROAD AND RAILWAY LINES

TABLE 54 CONSTRUCTION: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 55 CONSTRUCTION: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

TABLE 56 CONSTRUCTION: LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 57 CONSTRUCTION: LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD MILLION)

### 10.5 ENVIRONMENT

10.5.1 RISING USE OF LIDAR DRONES FOR ENVIRONMENTAL ASSESSMENT

TABLE 58 ENVIRONMENT: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 59 ENVIRONMENT: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

TABLE 60 ENVIRONMENT: LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 61 ENVIRONMENT: LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD

MILLION)

## 10.6 ENTERTAINMENT

### 10.6.1 VIDEO GAMES INDUSTRY EXPECTED TO DRIVE GROWTH OF UAV LIDAR TECHNOLOGY

TABLE 62 ENTERTAINMENT: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 63 ENTERTAINMENT: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

TABLE 64 ENTERTAINMENT: LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 65 ENTERTAINMENT: LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD MILLION)

## 10.7 PRECISION AGRICULTURE

### 10.7.1 USE OF LIDAR DRONES FOR CROP MONITORING AND CATEGORIZATION

TABLE 66 PRECISION AGRICULTURE: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 67 PRECISION AGRICULTURE: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

TABLE 68 PRECISION AGRICULTURE: LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 69 PRECISION AGRICULTURE: LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD MILLION)

## 10.8 OTHERS

### 10.8.1 ADOPTION OF LIDAR FOR OPERATIONAL INSPECTION AND MONITORING INDUSTRIES

TABLE 70 OTHERS: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 71 OTHERS: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

TABLE 72 OTHERS: LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 73 OTHERS: LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD MILLION)

# 11 LIDAR DRONE MARKET, BY REGION

## 11.1 INTRODUCTION

FIGURE 38 LIDAR DRONE MARKET IN ASIA PACIFIC TO GROW AT HIGHEST

CAGR FROM 2022 TO 2027

TABLE 74 LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 75 LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD MILLION)

## 11.2 NORTH AMERICA

FIGURE 39 NORTH AMERICA: LIDAR DRONE MARKET SNAPSHOT

TABLE 76 NORTH AMERICA: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 77 NORTH AMERICA: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

TABLE 78 NORTH AMERICA: LIDAR DRONE MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 79 NORTH AMERICA: LIDAR DRONE MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 80 NORTH AMERICA: LIDAR DRONE MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 81 NORTH AMERICA: LIDAR DRONE MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

### 11.2.1 US

11.2.1.1 US to continue dominating LiDAR drone market during forecast period

FIGURE 40 CONSTRUCTION SPENDING IN US (2017–2021), USD BILLION

### 11.2.2 CANADA

11.2.2.1 Adoption of LiDAR drones in government projects to drive market growth

### 11.2.3 MEXICO

11.2.3.1 Archaeology and forestry offer market opportunities

## 11.3 EUROPE

FIGURE 41 EUROPE: LIDAR DRONE MARKET SNAPSHOT

TABLE 82 EUROPE: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD MILLION)

TABLE 83 EUROPE: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD MILLION)

TABLE 84 EUROPE: LIDAR DRONE MARKET, BY APPLICATION, 2018–2021 (USD MILLION)

TABLE 85 EUROPE: LIDAR DRONE MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 86 EUROPE: LIDAR DRONE MARKET, BY COUNTRY, 2018–2021 (USD MILLION)

TABLE 87 EUROPE: LIDAR DRONE MARKET, BY COUNTRY, 2022–2027 (USD MILLION)

### 11.3.1 UK

11.3.1.1 Deployment of LiDAR drones for mapping and surveying applications

#### 11.3.2 GERMANY

11.3.2.1 LiDAR drones to enhance military aerial vehicle capabilities

#### 11.3.3 FRANCE

11.3.3.1 Prominent LiDAR drone providers offer improved survey solutions

#### 11.3.4 ITALY

11.3.4.1 Infrastructure planning and inspection to offer opportunities

#### 11.3.5 REST OF EUROPE

### 11.4 ASIA PACIFIC

#### FIGURE 42 ASIA PACIFIC: LIDAR DRONE MARKET SNAPSHOT

TABLE 88 ASIA PACIFIC: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021  
(USD MILLION)

TABLE 89 ASIA PACIFIC: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027  
(USD MILLION)

TABLE 90 ASIA PACIFIC: LIDAR DRONE MARKET, BY APPLICATION, 2018–2021  
(USD MILLION)

TABLE 91 ASIA PACIFIC: LIDAR DRONE MARKET, BY APPLICATION, 2022–2027  
(USD MILLION)

TABLE 92 ASIA PACIFIC: LIDAR DRONE MARKET, BY COUNTRY, 2018–2021 (USD  
MILLION)

TABLE 93 ASIA PACIFIC: LIDAR DRONE MARKET, BY COUNTRY, 2022–2027 (USD  
MILLION)

#### 11.4.1 CHINA

11.4.1.1 Manufacturing capabilities in the country to drive market growth

#### 11.4.2 JAPAN

11.4.2.1 Expansion of Japan-based LiDAR drone players to drive market growth

#### 11.4.3 SOUTH KOREA

11.4.3.1 Smart city initiatives expected to create growth opportunities

#### 11.4.4 INDIA

11.4.4.1 Growing adoption of advanced technologies in agriculture

#### 11.4.5 AUSTRALIA

11.4.5.1 Increased adoption of LiDAR drones for mining operations

#### 11.4.6 REST OF ASIA PACIFIC

### 11.5 ROW

TABLE 94 ROW: LIDAR DRONE MARKET, BY DRONE TYPE, 2018–2021 (USD  
MILLION)

TABLE 95 ROW: LIDAR DRONE MARKET, BY DRONE TYPE, 2022–2027 (USD  
MILLION)

TABLE 96 ROW: LIDAR DRONE MARKET, BY APPLICATION, 2018–2021 (USD

MILLION)

TABLE 97 ROW: LIDAR DRONE MARKET, BY APPLICATION, 2022–2027 (USD MILLION)

TABLE 98 ROW: LIDAR DRONE MARKET, BY REGION, 2018–2021 (USD MILLION)

TABLE 99 ROW: LIDAR DRONE MARKET, BY REGION, 2022–2027 (USD MILLION)

#### 11.5.1 MIDDLE EAST & AFRICA

11.5.1.1 Oil & gas industry to drive adoption of LiDAR drones

#### 11.5.2 SOUTH AMERICA

11.5.2.1 Surge in adoption of LiDAR drones for archaeological surveys

## 12 COMPETITIVE LANDSCAPE

### 12.1 OVERVIEW

### 12.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

TABLE 100 OVERVIEW OF STRATEGIES ADOPTED BY VENDORS OF LIDAR DRONE MARKET

### 12.3 MARKET SHARE ANALYSIS, 2021

FIGURE 43 LIDAR DRONE MARKET: MARKET SHARE ANALYSIS, 2021

### 12.4 KEY COMPANY EVALUATION QUADRANT, 2021

#### 12.4.1 STARS

#### 12.4.2 EMERGING LEADERS

#### 12.4.3 PERVASIVE PLAYERS

#### 12.4.4 PARTICIPANTS

FIGURE 44 LIDAR DRONE MARKET: KEY COMPANY EVALUATION QUADRANT, 2021

### 12.5 LIDAR DRONE MARKET: COMPANY FOOTPRINT

TABLE 101 COMPANY FOOTPRINT

TABLE 102 COMPONENT FOOTPRINT OF COMPANIES

TABLE 103 APPLICATION FOOTPRINT OF COMPANIES

TABLE 104 REGIONAL FOOTPRINT OF COMPANIES

### 12.6 SMALL AND MEDIUM ENTERPRISES (SME) EVALUATION MATRIX, 2021

#### 12.6.1 PROGRESSIVE COMPANIES

#### 12.6.2 RESPONSIVE COMPANIES

#### 12.6.3 DYNAMIC COMPANIES

#### 12.6.4 STARTING BLOCKS

FIGURE 45 LIDAR DRONE MARKET: SME EVALUATION QUADRANT, 2021

#### 12.6.5 START-UP EVALUATION MATRIX

TABLE 105 LIDAR DRONE MARKET: DETAILED LIST OF KEY START-UPS/SMES

TABLE 106 LIDAR DRONE MARKET: COMPETITIVE BENCHMARKING OF KEY



## START-UPS/SMES

### 12.7 COMPETITIVE SCENARIOS AND TRENDS

#### 12.7.1 LIDAR DRONE MARKET: PRODUCT LAUNCHES, 2019–2022

#### 12.7.2 LIDAR DRONE MARKET: DEALS, 2019–2022

## 13 COMPANY PROFILES

(Business Overview, Products/Services/Solutions Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))\*

### 13.1 KEY PLAYERS

#### 13.1.1 PHOENIX LIDAR SYSTEMS

TABLE 107 PHOENIX LIDAR SYSTEMS: BUSINESS OVERVIEW

TABLE 108 PHOENIX LIDAR SYSTEMS: PRODUCTS/SERVICES/SOLUTIONS OFFERED

#### 13.1.2 RIEGL LASER MEASUREMENT SYSTEMS GMBH

TABLE 109 RIEGL LASER MEASUREMENT SYSTEMS GMBH: BUSINESS OVERVIEW

TABLE 110 RIEGL LASER MEASUREMENT SYSTEMS GMBH: PRODUCTS/SERVICES/SOLUTIONS OFFERED

#### 13.1.3 VELODYNE LIDAR, INC.

TABLE 111 VELODYNE LIDAR, INC.: BUSINESS OVERVIEW

FIGURE 46 VELODYNE LIDAR, INC.: COMPANY SNAPSHOT

TABLE 112 VELODYNE LIDAR, INC.: PRODUCTS/SERVICES/SOLUTIONS OFFERED

#### 13.1.4 TELEDYNE OPTTECH

TABLE 113 TELEDYNE OPTTECH: BUSINESS OVERVIEW

TABLE 114 TELEDYNE OPTTECH: PRODUCTS/SERVICES/SOLUTIONS OFFERED

#### 13.1.5 UMS SKELDAR

TABLE 115 UMS SKELDAR: BUSINESS OVERVIEW

TABLE 116 UMS SKELDAR: PRODUCTS/SERVICES/SOLUTIONS OFFERED

#### 13.1.6 LIDARUSA

TABLE 117 LIDARUSA: BUSINESS OVERVIEW

TABLE 118 LIDARUSA: PRODUCTS/SERVICES/SOLUTIONS OFFERED

#### 13.1.7 YELLOWSCAN

TABLE 119 YELLOWSCAN: BUSINESS OVERVIEW

TABLE 120 YELLOWSCAN: PRODUCTS/SERVICES/SOLUTIONS OFFERED

#### 13.1.8 GEODETICS, INC.

TABLE 121 GEODETICS: BUSINESS OVERVIEW

TABLE 122 GEODETICS: PRODUCTS/SERVICES/SOLUTIONS OFFERED

13.1.9 ONYXSCAN

TABLE 123 ONYXSCAN: BUSINESS OVERVIEW

TABLE 124 ONYXSCAN: PRODUCTS/SERVICES/SOLUTIONS OFFERED

13.1.10 SICK AG

TABLE 125 SICK AG: BUSINESS OVERVIEW

FIGURE 47 SICK AG: COMPANY SNAPSHOT

TABLE 126 SICK AG: PRODUCTS/SERVICES/SOLUTIONS OFFERED

13.1.11 DELAIR

TABLE 127 DELAIR: BUSINESS OVERVIEW

TABLE 128 DELAIR: PRODUCTS/SERVICES/SOLUTIONS OFFERED

13.1.12 MICRODRONES

TABLE 129 MICRODRONES: BUSINESS OVERVIEW

TABLE 130 MICRODRONES: PRODUCTS/SERVICES/SOLUTIONS OFFERED

13.2 OTHER PLAYERS

13.2.1 LIVOX

TABLE 131 LIVOX: BUSINESS OVERVIEW

13.2.2 ROUTESCENE

TABLE 132 ROUTESCENE: BUSINESS OVERVIEW

13.2.3 NEXTCORE

TABLE 133 NEXTCORE: BUSINESS OVERVIEW

13.2.4 GREENVALLEY INTERNATIONAL (GVI)

TABLE 134 GREENVALLEY INTERNATIONAL (GVI): BUSINESS OVERVIEW

13.2.5 SURESTAR

TABLE 135 SURESTAR: BUSINESS OVERVIEW

13.2.6 BENEWAKE (BEIJING) CO., LTD.

TABLE 136 BENEWAKE (BEIJING) CO., LTD.: BUSINESS OVERVIEW

13.2.7 SABRE ADVANCED 3D SURVEYING SYSTEMS

TABLE 137 SABRE ADVANCED 3D SURVEYING SYSTEMS: BUSINESS OVERVIEW

13.2.8 CEPTON, INC.

TABLE 138 CEPTON, INC.: BUSINESS OVERVIEW

13.2.9 DRAGANFLY INC.

TABLE 139 DRAGANFLY INC.: BUSINESS OVERVIEW

13.2.10 GEOCUE GROUP INC.

TABLE 140 GEOCUE GROUP INC.: BUSINESS OVERVIEW

13.2.11 VOLATUS AEROSPACE CORP.

TABLE 141 VOLATUS AEROSPACE CORP.: BUSINESS OVERVIEW

13.2.12 MODUS

TABLE 142 MODUS: BUSINESS OVERVIEW

### 13.2.13 PRECISIONHAWK

#### TABLE 143 PRECISIONHAWK: BUSINESS OVERVIEW

\*Details on Business Overview, Products/Services/Solutions Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

## 14 ADJACENT & RELATED MARKET

### 14.1 INTRODUCTION

### 14.2 ADJACENT MARKET: LIMITATIONS

### 14.3 TOF SENSOR MARKET, BY APPLICATION

TABLE 144 TIME-OF-FLIGHT SENSOR MARKET, BY APPLICATION, 2017–2025  
(USD MILLION)

### 14.4 AR AND VR

14.4.1 INCREASING USE OF AR AND VR TECHNOLOGY-BASED SYSTEMS IN EDUCATION, HEALTHCARE, AND ENTERTAINMENT APPLICATIONS DRIVES DEMAND FOR TOF SENSORS

### 14.5 LIDAR

14.5.1 INCREASING ADOPTION OF LIDAR TECHNOLOGY IN AUTOMOBILES, RETAIL STORES, AND MANUFACTURING PLANTS TO SURGE DEMAND FOR TOF SENSORS

## 15 APPENDIX

### 15.1 DISCUSSION GUIDE

### 15.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

### 15.3 CUSTOMIZATION OPTIONS

### 15.4 RELATED REPORTS

### 15.5 AUTHOR DETAILS

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