

Global dToF LiDAR Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G8D225235245EN.html>

Date: February 2026

Pages: 88

Price: US\$ 3,480.00 (Single User License)

ID: G8D225235245EN

Abstracts

According to our (Global Info Research) latest study, the global dToF LiDAR market size was valued at US\$ 362 million in 2025 and is forecast to a readjusted size of US\$ 5134 million by 2032 with a CAGR of 45.5% during review period.

dToF LiDAR (Direct Time-of-Flight LiDAR) is typically pulsed ToF: it emits short laser pulses, detects the return, and directly measures the round-trip time t , converting distance by $c \cdot t/2$. Unlike iToF (phase-based) or FMCW LiDAR, dToF relies on direct timing, often combined with highly sensitive receivers and precise timing electronics to achieve long-range and wide dynamic-range ranging.

The upstream stack includes emitter + receiver + timing/processing + opto-mechanics: 905 nm or 1550/1535 nm sources with collimation/beam shaping; receiver technologies such as APD, SPAD arrays, or SiPM with analog front-ends; and timing paths using TDCs plus histogram/waveform processing, which strongly influence range, precision, and measurement rate. Mechanical/packaging elements include scanning/beam steering (rotary, MEMS, solid-state), thermal design, and automotive/industrial reliability requirements.

Downstream demand centers on 3D perception and point clouds: automotive ADAS/autonomy for long-range obstacle detection and scene reconstruction; robotics/industrial safety for avoidance, zone protection, and SLAM; and mapping/UAV/infrastructure inspection for accurate 3D capture. Pulsed dToF is often favored for its straightforward ranging principle and potential robustness, but system performance is constrained by eye-safety power limits and return SNR under challenging conditions.

In 2025, global sales of dToF LiDAR reached approximately 842 K units, with an average global market price of around US\$ 418/unit. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 10% to 40%.

Direct time-of-flight (dToF) LiDAR in automotive is moving from “premium add-on” to broader mainstream adoption, driven by higher-level ADAS needs for redundant perception. In challenging conditions—night driving, glare, low-texture objects, and long-range obstacle detection—dToF provides accurate depth and 3D geometry that helps reduce missed detections and false positives. At the same time, OEM architectures are shifting toward sensor fusion with domain/central computing: cameras and radar contribute robustness and semantics, while dToF contributes precise geometry and absolute ranging, making the overall system more production-ready.

The market, however, is under intense engineering and cost pressure. OEMs push for tighter bill-of-material targets, better styling integration, higher reliability, and supply assurance. This accelerates the transition from mechanical to (semi-)solid-state designs and from higher power to more efficient, chip-centric implementations. As ASPs decline, suppliers must defend margins via silicon integration, advanced packaging, manufacturing automation, and scale—competition increasingly centers on deliverability, quality consistency, and total lifecycle cost rather than headline specs alone.

Opportunities concentrate in two areas: (1) broader factory-fit deployment as LiDAR becomes a platform feature across multiple vehicle lines, and (2) value migration from hardware toward software and operational capabilities—calibration, health monitoring/diagnostics, contamination handling, degradation management, and functional-safety co-design with perception stacks—where differentiation and pricing power are more sustainable.

This report is a detailed and comprehensive analysis for global dToF LiDAR market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global dToF LiDAR market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global dToF LiDAR market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global dToF LiDAR market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global dToF LiDAR market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for dToF LiDAR

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global dToF LiDAR market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Innoviz Technologies, SICK, Seyond, Valeo, HOKUYO, Shanghai Slamtec, SMIT, Shenzhen LDROBOT, Hesai, China Science Photon Chip, etc.

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

Market Segmentation

dToF LiDAR market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Mechanical Rotating

MEMS Mirror Scanning

Other

Market segment by Emission Wavelength

905 nm

940 nm

1550/1535 nm

Market segment by Grade

Automotive Grade

Industrial Grade

Other

Market segment by Application

Automotive

Robotics

Drones

Other

Major players covered

Innoviz Technologies

SICK

Seyond

Valeo

HOKUYO

Shanghai Slamtec

SMIT

Shenzhen LDROBOT

Hesai

China Science Photon Chip

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe dToF LiDAR product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of dToF LiDAR, with price, sales quantity, revenue, and global market share of dToF LiDAR from 2021 to 2026.

Chapter 3, the dToF LiDAR competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the dToF LiDAR breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and dToF LiDAR market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of dToF LiDAR.

Chapter 14 and 15, to describe dToF LiDAR sales channel, distributors, customers, research findings and conclusion.

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