

Global Industrial 3D TOF Cameras Market Growth 2026-2032

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Abstracts

The global Industrial 3D TOF Cameras market size is predicted to grow from US\$ 919 million in 2025 to US\$ 1498 million in 2032; it is expected to grow at a CAGR of 7.3% from 2026 to 2032.

An Industrial 3D ToF (Time-of-Flight) Camera is an active imaging device that measures the distance between the sensor and an object by emitting modulated light (usually infrared) and calculating the time delay of the reflected signal. Unlike consumer-grade depth sensors, industrial ToF cameras are engineered with higher durability, precision, and synchronization capabilities. They provide real-time, high-resolution depth maps and point cloud data, making them essential for high-speed automated applications such as robotic bin-picking, volume measurement, and AGV/AMR (Automated Guided Vehicle) navigation in harsh manufacturing environments.

In 2025, global Industrial 3D ToF (Time-of-Flight) Camera production reached approximately 1.01 million units, and average price was 930 USD/unit, with gross margin 44%.

United States market for Industrial 3D TOF Cameras is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Industrial 3D TOF Cameras is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Industrial 3D TOF Cameras is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Industrial 3D TOF Cameras players cover Basler, LUCID Vision Labs, ifm electronic, Chronoptics, Terabee, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the “Industrial 3D TOF Cameras Industry Forecast” looks at past sales and reviews total world Industrial 3D TOF Cameras sales in 2025, providing a comprehensive analysis by region and market sector of projected Industrial 3D TOF Cameras sales for 2026 through 2032. With Industrial 3D TOF Cameras sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Industrial 3D TOF Cameras industry.

This Insight Report provides a comprehensive analysis of the global Industrial 3D TOF Cameras landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Industrial 3D TOF Cameras portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Industrial 3D TOF Cameras market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Industrial 3D TOF Cameras and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Industrial 3D TOF Cameras.

This report presents a comprehensive overview, market shares, and growth opportunities of Industrial 3D TOF Cameras market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

dToF

iToF

Segmentation by Light Source Spectrum:

850nm (Near-Infrared)

940nm (Invisible Infrared)

Others

Segmentation by Sales Channels:

Online Channel

Offline Channel

Segmentation by Application:

Industrial Automation

Consumer Electronics

Automotive

Semiconductor

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Basler

LUCID Vision Labs

ifm electronic

Chronoptics

Terabee

Schmersal

TOPPAN

Vsemi

Leopard

Becom Systems

Vzense

LIPS Corporation

DOMI sensor

LuminWave

E-con Systems

Sipeed

ORBEC

SICK

Key Questions Addressed in this Report

What is the 10-year outlook for the global Industrial 3D TOF Cameras market?

What factors are driving Industrial 3D TOF Cameras market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Industrial 3D TOF Cameras market opportunities vary by end market size?

How does Industrial 3D TOF Cameras break out by Type, by Application?

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