

Global GigE Interface ToF Camera Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GAC3EEF657D5EN.html>

Date: August 2026

Pages: 114

Price: US\$ 4,480.00 (Single User License)

ID: GAC3EEF657D5EN

Abstracts

The global GigE Interface ToF Camera market size is expected to reach \$ 130 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, global GigE Interface ToF Camera production reached approximately 243 k units?with an average global market price of around US\$ 296 per unit, and a gross profit margin of approximately 20%-40%. GigE Interface ToF Cameras are industrial three-dimensional imaging devices that measure distance by emitting modulated infrared light and calculating the travel time or phase difference of the reflected signal. A typical product integrates a ToF image sensor, VCSEL infrared illuminator, optical system, depth processor, calibration data, industrial housing, Gigabit Ethernet controller, and software development kit. The GigE interface enables high-speed depth-data transmission, relatively long cable distances, centralized device management, and integration with industrial computers, robots, and machine-vision networks. Some models also support GigE Vision, Power over Ethernet, hardware triggering, multi-camera synchronization, IP67 protection, and onboard depth processing. The industrial chain of GigE Interface ToF Cameras includes upstream ToF sensors, CMOS wafers, VCSEL emitters, optical lenses, band-pass filters, depth-processing chips, Ethernet controllers, processors, memory devices, industrial connectors, PCBs, cables, housings, sealing components, heat-dissipation materials, and calibration equipment. The midstream includes sensor packaging, optical design, illumination-module assembly, camera integration, depth-algorithm development, phase and distance calibration, firmware development, GigE Vision protocol integration, PoE circuit design, hardware-trigger integration, multi-camera synchronization, SDK development, eye-safety testing, electromagnetic compatibility testing, environmental testing, and final assembly. Downstream applications include robotic picking, pallet handling, logistics

automation, volume measurement, industrial inspection, autonomous mobile robots, agricultural automation, security monitoring, and outdoor 3D perception.

This report studies the global GigE Interface ToF Camera production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for GigE Interface ToF Camera 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 GigE Interface ToF Camera that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global GigE Interface ToF Camera total production and demand, 2021-2032, (K Units)

Global GigE Interface ToF Camera total production value, 2021-2032, (USD Million)

Global GigE Interface ToF Camera production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global GigE Interface ToF Camera consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: GigE Interface ToF Camera domestic production, consumption, key domestic manufacturers and share

Global GigE Interface ToF Camera production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global GigE Interface ToF Camera production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global GigE Interface ToF Camera production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global GigE Interface ToF Camera market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Chronoptics, LUCID Vision Labs, Basler, ORBBEC, IDS Imaging Development Systems GmbH, SICK AG, Vzense, LIPS Corporation, 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 GigE Interface ToF Camera market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, 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 GigE Interface ToF Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global GigE Interface ToF Camera Market, Segmentation by Type:

Indirect ToF Cameras

Direct ToF Cameras

Global GigE Interface ToF Camera Market, Segmentation by Wavelength:

Wavelength: 850 nm

Wavelength: 940 nm

Others

Global GigE Interface ToF Camera Market, Segmentation by Environment:

Indoor

Outdoor

Global GigE Interface ToF Camera Market, Segmentation by Application:

Industrial Automation

Medical

Consumer Electronics

Automotive

Others

Companies Profiled:

Chronoptics

LUCID Vision Labs

Basler

ORBEC

IDS Imaging Development Systems GmbH

SICK AG

Vzense

LIPS Corporation

Key Questions Answered:

1. How big is the global GigE Interface ToF Camera market?
2. What is the demand of the global GigE Interface ToF Camera market?
3. What is the year over year growth of the global GigE Interface ToF Camera market?
4. What is the production and production value of the global GigE Interface ToF Camera market?
5. Who are the key producers in the global GigE Interface ToF Camera market?
6. What are the growth factors driving the market demand?

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