

Global Biometric Imaging Module Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G6A3426D89FFEN.html>

Date: May 2026

Pages: 125

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

ID: G6A3426D89FFEN

Abstracts

The global Biometric Imaging Module market size is expected to reach \$ 1072 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

A biometric imaging module is a specialized electro-optical assembly designed to capture, process, and verify unique biological traits such as fingerprints, iris patterns, facial structures, or palm veins to enable secure user authentication. These modules integrate high-resolution image sensors (typically CMOS or ultrasonic), precision optics, and onboard processing units that run sophisticated matching algorithms. In 2026, the technology has pivoted toward multimodal and contactless systems, moving beyond simple touch-based fingerprinting to 3D facial recognition and under-display ultrasonic sensing. Modern modules are engineered for 'liveness detection' or anti-spoofing, utilizing infrared illumination or sound waves to distinguish between a live human and a high-resolution reproduction. From securing mobile payments and national ID programs to enabling 'start-on-touch' vehicle personalization, biometric imaging modules serve as the critical hardware gateway for identity management in an increasingly password-less digital economy, prioritizing both high-speed throughput and extreme cryptographic security.

In 2025, global biometric imaging module production reached approximately 206.55 million units, with an average global market price of around US\$ 3.36 per unit. And global biometric imaging module production capacity reached approximately 270 million units. The average gross margin in this industry reached 19.89%.

The upstream supply chain for biometric imaging modules is characterized by highly specialized semiconductor fabrication and optical engineering. The production of these modules requires high-sensitivity CMOS image sensors, specialized lens arrays with

minimal distortion, and advanced microcontrollers for on-device data encryption. In 2026, the sourcing of Gallium Nitride (GaN) for infrared emitters and piezoelectric materials for ultrasonic sensors has become a strategic priority. Key upstream suppliers include Sony Semiconductor (the global leader in high-end CMOS image sensors), Qualcomm (supplying market-leading ultrasonic 3D sensing platforms), and Schott AG (providing specialized optical glass and chemically strengthened covers for sensor protection). These suppliers provide the foundational components that determine the module's resolution, signal-to-noise ratio, and durability against environmental stressors like scratches or electrostatic discharge.

The downstream segment involves the mass-market integration of these modules into consumer electronics, automotive interiors, and critical security infrastructure. At this stage, value is added through software integration, where the module's output is synchronized with secure enclaves in mobile processors or government identity databases. Significant downstream customers and high-volume institutional users include Samsung Electronics (integrating advanced in-display modules across its flagship smartphone and tablet lines), LG Innotek (acting as a primary module integrator for global smartphone and automotive OEMs), and IDEMIA (utilizing these modules for large-scale government projects, including border control and national voting registries). The downstream market is currently being reshaped by the 'biometric-of-everything' trend, where customers in the banking and healthcare sectors are replacing traditional PINs and physical keys with integrated imaging modules to enhance both hygiene and transaction security.

This report studies the global Biometric Imaging Module production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biometric Imaging Module 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 Biometric Imaging Module that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biometric Imaging Module total production and demand, 2021-2032, (Million Units)

Global Biometric Imaging Module total production value, 2021-2032, (USD Million)

Global Biometric Imaging Module production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Biometric Imaging Module consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Biometric Imaging Module domestic production, consumption, key domestic manufacturers and share

Global Biometric Imaging Module production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Biometric Imaging Module production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Biometric Imaging Module production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Biometric Imaging Module 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 HID Global, Rakinda Technology, ZKTeco, BioAffix, trinamiX, CAMA Biometrics, OMNIVISION, Cloudwalk, Suprema, GRG Intelligent Technology Solution, 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 Biometric Imaging Module market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Biometric Imaging Module Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biometric Imaging Module Market, Segmentation by Type:

Fingerprint

Facial Recognition

Others

Global Biometric Imaging Module Market, Segmentation by Sensor Type:

CMOS Sensor

CCD Sensor

Infrared Sensor

Others

Global Biometric Imaging Module Market, Segmentation by Integration Method:

Embedded Module

USB Module

Others

Global Biometric Imaging Module Market, Segmentation by Application:

Consumer Electronics

Access Control Device

Automotive

Others

Companies Profiled:

HID Global

Rakinda Technology

ZKTeco

BioAffix

trinamiX

CAMA Biometrics

OMNIVISION

Cloudwalk

Suprema

GRG Intelligent Technology Solution

Aratek

Key Questions Answered:

Global Biometric Imaging Module Supply, Demand and Key Producers, 2026-2032

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

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