

# Global Biometric Imaging Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Biometric Imaging Module market size was valued at US\$ 714 million in 2025 and is forecast to a readjusted size of US\$ 1072 million by 2032 with a CAGR of 6.0% during review period.

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 is a detailed and comprehensive analysis for global Biometric Imaging Module 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 Biometric Imaging Module market size and forecasts, in consumption value (\$ Million), sales quantity (Million Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global Biometric Imaging Module market shares of main players, shipments in revenue (\$ Million), sales quantity (Million 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 Biometric Imaging Module
- 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 Biometric Imaging Module 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 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.

### **Market Segmentation**

Biometric Imaging Module 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

Fingerprint

Facial Recognition

Others

## Market segment by Sensor Type

CMOS Sensor

CCD Sensor

Infrared Sensor

Others

## Market segment by Integration Method

Embedded Module

USB Module

Others

## Market segment by Application

Consumer Electronics

Access Control Device

Automotive

Others

## Major players covered

HID Global

Rakinda Technology

ZKTeco

BioAffix

trinamiX

CAMA Biometrics

OMNIVISION

Cloudwalk

Suprema

GRG Intelligent Technology Solution

Aratek

## 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 Biometric Imaging Module product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Biometric Imaging Module 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 Biometric Imaging Module 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 Biometric Imaging Module.

Chapter 14 and 15, to describe Biometric Imaging Module sales channel, distributors, customers, research findings and conclusion.

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