

Global SMA Camera Actuator Market Growth 2026-2032

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Abstracts

The global SMA Camera Actuator market size is predicted to grow from US\$ 50.21 million in 2025 to US\$ 68.05 million in 2032; it is expected to grow at a CAGR of 4.5% from 2026 to 2032.

In 2024, global SMA Camera Actuator reached approximately 2,012 k units, with an average global market price of around US\$ 22.5 per unit. Gross margin is about 38%. The cost is 13.95 usd. Production Capacity is about 2,200-2,400 k units. SMA Camera Actuators are innovative components used in smartphone cameras for AF and OIS, leveraging the unique properties of shape memory alloys that contract and expand in response to temperature changes. This actuation mechanism allows for precise, smooth, and silent movements of the camera lens, enhancing the focus speed and image stability without the bulk of traditional motors. SMA camera actuators are particularly favored in smartphone, camera and ev. The upstream includes suppliers of SMA alloy wire/sheet, micro springs, connectors and precision machined parts; the midstream includes SMA actuator manufacturers and module integrators; and the downstream includes manufacturers of smartphones, tablets, wearable devices and micro camera modules, which are used for micro-drive functions such as autofocus (AF), optical image stabilization (OIS) and variable aperture.

1. Miniaturization, High Response Speed, and High Precision Development

Future SMA actuators for cameras will evolve towards smaller size, higher drive response speed, and higher displacement control precision to meet the demands of smartphones, tablets, and wearable devices for thinner designs and faster autofocus. Optimizing the SMA material alloy composition, refining wire diameter, and enhancing microstructure design will achieve rapid thermal actuation and high repeatability while

maintaining stable output force and reliability.

2. Improved Energy Efficiency, Durability, and Environmental Adaptability

Energy consumption and durability will become key performance indicators for SMA actuators. Future development will focus on low-voltage actuation, rapid thermal management, high and low temperature resistance, and humid heat resistance to improve stability and lifespan in complex environments. Material development will focus on SMA alloys with high cycle counts, low fatigue, and corrosion resistance to reduce equipment failure rates and extend module lifespan.

3. Modularization, Intelligence, and Application Expansion

SMA actuators will be deeply integrated with camera modules to form standardized, modular micro-drive components, supporting functions such as autofocus (AF), optical image stabilization (OIS), variable aperture, and lens adjustment. Simultaneously, intelligent control algorithms will combine temperature and displacement sensors to achieve closed-loop feedback control and precise adjustment. Downstream applications will expand from smartphones to wearable devices, drone miniature cameras, and industrial miniature imaging systems, driving further market growth.

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

This Insight Report provides a comprehensive analysis of the global SMA Camera Actuator 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 SMA Camera Actuator portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global SMA Camera Actuator market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for SMA Camera Actuator 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 SMA Camera Actuator.

This report presents a comprehensive overview, market shares, and growth opportunities of SMA Camera Actuator market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

4-wire Actuator

8-wire Actuator

Segmentation by Shape:

Linear

Flat

Other

Segmentation by Technology:

Thermally driven SMA actuator

Current pulse control type

Segmentation by Application:

Smartphone

Camera

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.

TDK

Alps Alpine

Mitsumi

Jahwa Electronics

Haesung Optics

LG Innotek

SEMCO

New Shicoh Motor

MCNEX

Im

Hozel

ZET

Shanghai B.L Electronics

Sanmeda Optical Technology

JIANGXIN MICRO MOTOR

ROE

TOK

ActRO

Key Questions Addressed in this Report

What is the 10-year outlook for the global SMA Camera Actuator market?

What factors are driving SMA Camera Actuator market growth, globally and by region?

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

How do SMA Camera Actuator market opportunities vary by end market size?

How does SMA Camera Actuator break out by Type, by Application?

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