

# Global Voice Coil Motor (VCM) Driver IC Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Voice Coil Motor (VCM) Driver IC market size is expected to reach \$ 174 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

A Voice Coil Motor, VCM Driver IC is a key control device for camera module actuators, designed for autofocus and optical image stabilization use cases. It delivers programmable, high precision drive current to the VCM coil and enables fast, stable lens displacement under tight power and ultra compact packaging constraints. Typical devices accept target current or control parameters through an I2C serial interface and integrate an internal DAC and current regulation loop. They support either linear mode or PWM mode current generation, incorporate ringing compensation to shorten settling time after lens movement, and provide protection features such as open load, short circuit, undervoltage lockout, and thermal shutdown to improve module reliability. As mobile imaging performance advances, solutions have evolved from standalone AF drivers to integrated OIS plus AF controller and driver architectures. Some devices embed a DSP or MCU and work with position sensing such as Hall sensors to implement closed loop position control and adaptive gain tuning, improving focus accuracy and stabilization performance, while on chip EEPROM parameter storage helps reduce calibration effort and mass production tuning cost. Downstream customers are primarily smartphone and tablet camera modules, with expansion into laptops and emerging imaging terminals. Products are commonly delivered as single chip solutions in compact packages such as WLCSP, or as controller plus driver integrated LSIs, and competition centers on current resolution and linearity, closed loop control capability, response speed and vibration suppression, power and thermal efficiency, and compatibility with module manufacturing and calibration flows.

Voice Coil Motor, VCM Driver ICs sit at the core of the imaging module actuation layer and directly determine whether autofocus and stabilization systems can complete displacement quickly and settle into a stable imaging state. Mainstream devices use an I2C interface for digital configuration of parameters and target current, generate coil drive current via an internal DAC and regulation loop, and apply ringing compensation to shorten settling time after motion. Reliability functions such as open load and short circuit detection, undervoltage lockout, and thermal protection have become standard, enabling mass production and consistent quality for camera modules. As mobile imaging competition intensifies, the market is shifting from simple AF driver comparisons toward end to end user experience optimization, and chip vendors and module makers increasingly co optimize response, vibration suppression, power, and thermal performance, often delivering platform style solutions that can be deployed rapidly across multiple models.

In premium imaging stacks, integrated OIS plus AF controller and driver solutions are becoming the higher growth trajectory. Such devices often embed a DSP or MCU and work with position sensing such as Hall sensors. Through closed loop position control and gain tuning, they deliver higher precision lens or sensor displacement compensation, materially improving stability and focus success in low light, motion, and telephoto scenarios. To reduce mass production adoption effort, some products integrate EEPROM storage and richer register configurability so module manufacturers can calibrate and differentiate performance through parameterization while reusing the same control logic across different lens groups and mechanical designs. Looking ahead, competition will increasingly be defined by accumulated control algorithms and calibration workflows, as well as continuous iteration toward multi axis compensation and higher dynamic response.

On the supply side, VCM driver R and D and manufacturing form a multi pole landscape across the United States, Japan, Korea, and China. US and Japanese players retain early advantages in high end control and ecosystem maturity, Korean vendors have deep roots and scale in smartphone AF drivers, while companies in Mainland China and Greater China are expanding from foundational AF drivers into OIS closed loop solutions and broader product portfolios, indicating a move of domestic substitution into higher end segments. Demand is still anchored in smartphones and tablets, yet imaging capability is spilling over into laptops and emerging AI terminals, and wearables and additional device forms are expected to add incremental volume for OIS and high end AF. Overall, imaging upgrades and device form factor expansion are jointly pushing VCM drivers toward higher integration, stronger closed loop capability, and easier mass production adoption.

This report studies the global Voice Coil Motor (VCM) Driver IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Voice Coil Motor (VCM) Driver IC 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 Voice Coil Motor (VCM) Driver IC that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Voice Coil Motor (VCM) Driver IC total production and demand, 2021-2032, (K Units)

Global Voice Coil Motor (VCM) Driver IC total production value, 2021-2032, (USD Million)

Global Voice Coil Motor (VCM) Driver IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Voice Coil Motor (VCM) Driver IC consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Voice Coil Motor (VCM) Driver IC domestic production, consumption, key domestic manufacturers and share

Global Voice Coil Motor (VCM) Driver IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Voice Coil Motor (VCM) Driver IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Voice Coil Motor (VCM) Driver IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Voice Coil Motor (VCM) Driver IC 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 Texas Instruments, ROHM Semiconductor, ON Semiconductor, Renesas Electronics, STMicroelectronics, Dongwoon Anatech, SNA, Zinitix, Puya Semiconductor, Halo Microelectronics, 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 Voice Coil Motor (VCM) Driver IC 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 Voice Coil Motor (VCM) Driver IC Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Voice Coil Motor (VCM) Driver IC Market, Segmentation by Type:

Open Loop VCM Driver IC

Close Loop VCM Driver IC

OIS VCM Driver IC

Others

Global Voice Coil Motor (VCM) Driver IC Market, Segmentation by Drive Channel Coun:

Single-Channel

Multi-Channel

Global Voice Coil Motor (VCM) Driver IC Market, Segmentation by Integration Type:

Standalone Driver

Controller-Driver Integrated

Global Voice Coil Motor (VCM) Driver IC Market, Segmentation by Application:

Intelligent Mobile Phone

Tablet PC

Others

Companies Profiled:

Texas Instruments

ROHM Semiconductor

ON Semiconductor

Renesas Electronics

STMicroelectronics

Dongwoon Anatech

SNA

Zinitix

Puya Semiconductor

Halo Microelectronics

Southchip Semiconductor

Giantec Semiconductor

Chipsemicorp

**Key Questions Answered:**

1. How big is the global Voice Coil Motor (VCM) Driver IC market?
2. What is the demand of the global Voice Coil Motor (VCM) Driver IC market?
3. What is the year over year growth of the global Voice Coil Motor (VCM) Driver IC market?
4. What is the production and production value of the global Voice Coil Motor (VCM) Driver IC market?
5. Who are the key producers in the global Voice Coil Motor (VCM) Driver IC market?
6. What are the growth factors driving the market demand?

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