

Global VCM Driver 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 VCM Driver market size was valued at US\$ 140 million in 2025 and is forecast to a readjusted size of US\$ 174 million by 2032 with a CAGR of 3.2% during review period.

A VCM Driver, or Voice Coil Motor Driver IC, is a dedicated analog or mixed signal device positioned between the camera controller and the lens actuator. Its core role is to provide current drive, displacement control, ringing suppression, and position adjustment for voice coil motors or other micro actuators under low voltage, compact size, and high precision constraints, thereby enabling autofocus and, in more advanced solutions, closed loop correction and optical image stabilization control. Based on the validated official product pages of relevant suppliers, this category has evolved from early open loop autofocus drivers into more complex control platforms featuring bidirectional drive, DAC integration, current control, programmable I2C interfaces, EEPROM parameter storage, Hall feedback closed loop control, temperature compensation, and even MCU, DSP, PID algorithm, and OIS integration on a single chip. The objective is to improve focus speed, stability, power efficiency, anti shake performance, and module consistency under the industry trend toward multi camera systems, smaller form factors, and higher image quality. Typical applications now cover smartphones, tablets, digital still cameras, camcorders, web cameras, action cameras, IP cameras, and other imaging devices, while the main customers include camera module makers, end device brands, solution providers, and visual equipment manufacturers. Common delivery formats include standard AF VCM Driver ICs, micro actuator drivers compatible with VCM, piezo, and SMA actuators, as well as higher end single chip controllers that integrate both AF and OIS. Commercially, the market is primarily driven by chip sales, reference design support, and coordinated design in programs with camera modules.

The value of VCM Driver ICs is evolving from that of a traditional lens current driver into that of a precision motion control hub inside the imaging module. Earlier products were primarily focused on open loop AF applications, using DACs, current output, and I2C interfaces to deliver basic autofocus control. However, as shown on the official product pages of Renesas and ZINITIX, higher end solutions now integrate Hall signal processing, closed loop position correction, temperature compensation, PID algorithms, OIS control, and even MCU and DSP functions on a single chip. This means that a VCM Driver is no longer just a simple peripheral driver, but an important control device responsible for image stabilization, focus accuracy, and module consistency under the trends of multi camera systems, smaller form factors, and higher image quality. At the same time, product pages from Awinic, TI, and Fitipower all highlight low voltage operation, low quiescent current, ultra small packages, and fast programmable control as core selling points. This shows that competition in the category now spans four layers at once, namely control precision, power constraints, package size, and module manufacturability. For camera module makers and device brands, the importance of these chips is not merely to move the lens, but to make autofocus faster, more stable, and more power efficient in tighter spaces, while also supporting multi camera coexistence, coordination across different focal length modules, and increasingly complex imaging algorithms.

From the perspective of industry competition, the market has already formed a dual structure in which platform oriented analog suppliers and camera specific driver suppliers coexist. On one side, companies such as TI, ADI, Renesas, and ROHM have long accumulated strengths in product definition, interface standardization, package capability, and standardized device portfolios, allowing them to provide solutions ranging from basic AF drivers and historically mature part numbers to integrated AF and OIS control products. On the other side, suppliers such as Dongwoon Anatech, ZINITIX, Awinic, Halo, and Giantec are more tightly aligned with smartphone camera and imaging module scenarios, and continue to deepen their presence in AF Driver ICs, OIS Controller ICs, VCM Drivers, and Camera Lens Management. The repeated appearance of terms such as smartphone, tablet, camera module, video devices, imaging equipment, IP CAM, and security camera on official pages also indicates that although this category originated in smartphone imaging, it is now extending into a broader range of visual end devices. It is especially important to note that the market is not following a single technology route. Open loop solutions, bidirectional drive solutions, closed loop AF solutions, integrated AF plus OIS solutions, and general micro actuator driver solutions all coexist. This multi route situation means that customers choose differently based on cost, performance, size, tuning flexibility, and lifecycle

status. As a result, competition in this industry is layered rather than winner takes all.

Looking ahead, the most promising growth driver for the VCM Driver market remains the rise in control complexity brought by higher quality visual requirements, rather than simple dependence on terminal shipment growth. In its official annual report, onsemi explicitly links the importance of autofocus, image stabilization, and high quality visual imagery to broader demand from AI driven applications, automotive systems, and factory automation. This suggests that the value potential of driver ICs may expand from being a single component in consumer electronics into a broader role within the visual sensing chain. At the same time, the capabilities highlighted on official product pages, including bidirectional drive, closed loop control, temperature compensation, I2C Auto Switching, multi axis drive, and compatibility with VCM and piezo actuators, indicate that future growth will increasingly come from per chip capability upgrades, higher value per device, and expansion into new application scenarios, rather than only from incremental demand for traditional single camera AF. In addition, since the market still contains products in Active, Production, Obsolete, and Last Time Buy stages at the same time, the industry is effectively in a transitional phase where legacy part numbers continue while new platforms replace them. For suppliers that can simultaneously master low power small package design, algorithm integration, module adaptation, and multi scenario customer expansion, the outlook remains relatively optimistic, especially as multi camera, AI imaging, stable capture, and visual terminal upgrades continue to advance.

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

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

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

Global VCM Driver market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 VCM Driver

- 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 VCM Driver 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 Shanghai Awinic Technology Co., Ltd., Giantec Semiconductor Corporation, Halo Microelectronics Co., Ltd., Fitipower Integrated Technology Inc., Texas Instruments Incorporated, Analog Devices, Inc., ON Semiconductor Corporation, ROHM Co., Ltd., Renesas Electronics Corporation, Dongwoon Anatech Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

VCM Driver 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

Open Loop VCM Driver IC

Close Loop VCM Driver IC

OIS VCM Driver IC

Market segment by Control Architecture

AF Driver

Integrated AF And OIS Driver

General Micro-Actuator Driver

Market segment by Motion Directionality

Uni-Directional Drive

Bi-Directional Drive

Multi-Axis Or Multi-Channel Integrated

Market segment by Application

IOS System

Android System

Other System

Major players covered

Shanghai Awinic Technology Co., Ltd.

Giantec Semiconductor Corporation

Halo Microelectronics Co., Ltd.

Fitipower Integrated Technology Inc.

Texas Instruments Incorporated

Analog Devices, Inc.

ON Semiconductor Corporation

ROHM Co., Ltd.

Renesas Electronics Corporation

Dongwoon Anatech Co., Ltd.

ZINITIX Co., Ltd.

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 VCM Driver product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the VCM Driver 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 VCM Driver 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 VCM Driver.

Chapter 14 and 15, to describe VCM Driver sales channel, distributors, customers, research findings and conclusion.

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