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Global Time-of-Flight Auto-Focus Driver IC 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 Time-of-Flight Auto-Focus Driver IC market size was valued at US$ 89.21 million in 2025 and is forecast to a readjusted size of US$ 227 million by 2032 with a CAGR of 13.8% during review period.

Time-of-Flight Auto-Focus Driver IC refers to a high-speed analog or mixed-signal semiconductor device that controls the optical transmitter in active Time-of-Flight ranging, laser-assisted autofocus and three-dimensional depth-sensing systems. The device converts timing, modulation and control signals from a ToF sensor, image processor or system controller into precisely regulated current waveforms for VCSELs, edge-emitting laser diodes or other infrared emitters. Products are supplied as standalone laser or VCSEL driver ICs, custom driver ASICs, or driver functions integrated into ToF analog front ends and sensor packages. Depending on the measurement architecture, the driver may generate continuous high-frequency modulation for indirect ToF or nanosecond and sub-nanosecond high-current pulses for direct ToF. Key performance parameters include peak output current, pulse width, rise and fall time, modulation frequency, output-current accuracy, package parasitics, power efficiency and operating temperature. Advanced devices may integrate automatic power or current control, laser-bias calibration, digital configuration interfaces, thermal monitoring, overcurrent protection, diffuser-fault detection and eye-safety-related diagnostics. The market scope focuses on driver-function value used in mobile laser-detect autofocus, consumer 3D sensing, projection autofocus, smart access, robotics, industrial ranging, automotive in-cabin sensing and short-range ToF perception.

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Key Findings

2025 global driver-equivalent shipments are estimated at approximately 129 million units

Standalone driver ICs represent more than 90% of modeled driver-function value

Mobile LDAF and consumer camera uses contribute over half of modeled unit demand

Asia hosts more than half of the 12 verified core manufacturers

Market Trends

Time-of-Flight Auto-Focus Driver IC development is moving simultaneously toward higher integration and higher transmitter performance. In compact consumer systems, driver circuitry is increasingly combined with the ToF receiver, timing processor, VCSEL and optical elements to reduce module footprint, power consumption and assembly complexity. In performance-sensitive industrial and automotive systems, however, standalone drivers remain important because they allow greater flexibility in emitter selection, peak-current capability, pulse shaping and thermal design. Product upgrades are increasingly focused on fast-switching multi-junction VCSEL support, higher peak current, tighter pulse-to-pulse consistency, lower package inductance, closed-loop illumination control and more comprehensive fault diagnostics. High-speed integrated current-output architectures and GaN-based power stages are reducing reliance on discrete switching components, while automotive-grade products are adding wider temperature support, pulse-width limiting and safety-monitoring functions. The market is consequently separating into highly integrated, cost-sensitive devices for compact sensing modules and higher-value standalone devices for configurable, high-power and reliability-critical ToF systems.

Market Dynamics

Drivers

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Demand is supported by the broader use of active depth information in camera autofocus, robotic navigation, object detection, machine vision, smart access, projection calibration and automotive cabin monitoring. These applications require direct and repeatable distance information under conditions in which conventional image contrast or passive optical methods may be less reliable. The increasing use of multi-zone depth sensing, higher optical power and longer detection ranges also raises the technical value of the transmitter driver. In industrial and automotive applications, longer product lifecycles, wider operating-temperature requirements and more extensive diagnostic functions support higher semiconductor content per sensing channel. Continued adoption of VCSEL emitters and the expansion of ToF sensing beyond mobile devices provide a diversified demand base for both standalone and integrated driver architectures.

Restraints

The principal restraint is functional integration. When the VCSEL, receiver, timing circuitry, processor and driver are combined in a complete sensor or module, the addressable demand for a separately sold driver IC declines even as overall ToF adoption increases. Smartphone autofocus demand is also exposed to competition from phase-detection autofocus, dual-pixel image sensors and other passive or image-sensor-based focusing technologies. Cost pressure is significant in high-volume consumer electronics, where driver ASPs must absorb wafer, wafer-level packaging, testing and safety-related functions within a limited component budget. High-power products face additional thermal, electromagnetic-interference and optical-safety constraints, while relatively fragmented application specifications limit the ability to standardize one driver platform across all customers.

Opportunities

The most attractive opportunities are emerging in applications that require greater optical power, faster pulses, wider operating temperatures and configurable illumination control. Automotive in-cabin sensing, industrial three-dimensional inspection, autonomous mobile robots, warehouse automation, security systems and short-range LiDAR can support higher driver value than basic consumer autofocus. Multi-junction VCSELs, multi-channel illumination, sub-nanosecond pulse generation and integrated automatic power control create opportunities for product differentiation. Suppliers able to co-design the driver with the ToF image sensor, VCSEL array, optical diffuser and module thermal structure can improve ranging accuracy and reduce customer

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development time. China also presents opportunities for domestic substitution in consumer-grade devices, while automotive and industrial qualification creates a pathway for established consumer suppliers to move into higher-value segments.

Challenges

Commercial success depends on more than achieving a high nominal output current. Pulse integrity can deteriorate because of package inductance, PCB layout, emitter characteristics, temperature variation and optical feedback conditions. Suppliers must validate the driver as part of a complete transmitter subsystem and satisfy customer-specific requirements for eye safety, functional protection, electromagnetic compatibility and long-term reliability. Automotive qualification and industrial customer approval can require extended design cycles, while project-based demand creates uncertainty over the timing of volume production. The market also remains difficult to measure because many products are sold through confidential design wins, integrated sensor solutions or custom ASIC programs, limiting pricing transparency and making capacity planning more complex for smaller suppliers.

Industry Chain Analysis

The upstream chain includes analog, mixed-signal and power semiconductor process technologies, silicon or GaN power devices, foundry capacity, EDA and interface IP, VCSEL and edge-emitting laser sources, photodiodes, optical diffusers, substrates and wafer-level or leadless packaging services. Driver design requires close interaction between high-speed analog control, power switching, optical feedback, thermal management and package engineering. Fabless suppliers generally rely on external wafer foundries and outsourced semiconductor assembly and test providers, whereas diversified IDM suppliers can coordinate process development, wafer manufacturing, packaging and reliability qualification internally.

The midstream value-creation process covers driver architecture, current-pulse generation, power-stage integration, calibration algorithms, safety diagnostics, wafer fabrication, packaging, final testing and reference-design support. Downstream integration occurs through ToF sensor vendors, camera and depth-sensing module manufacturers, optical subsystem suppliers and equipment OEMs. In consumer products, wafer cost, compact packaging and high-volume testing represent a large share of delivered cost. In industrial and automotive products, engineering validation,

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qualification, traceability, thermal design and long-term supply support account for a greater proportion of value. The highest value is generally captured by products that combine differentiated pulse performance with sensor compatibility, optical-safety functions and proven application-level reliability.

Segment Insights

By product integration form, standalone Time-of-Flight Auto-Focus Driver ICs account for more than 90% of the modeled driver-function value, reflecting the report's narrow market scope and the higher identifiable value of separately sold devices. Integrated ToF analog front ends and sensors represent a smaller driver-equivalent share but exert substantial competitive pressure because they can eliminate a discrete component, reduce module area and simplify system qualification. Standalone products retain their strongest position in systems requiring selectable emitters, higher optical power, customized pulse profiles or automotive and industrial reliability.

By measurement principle, iToF drivers maintain a broad consumer and compact 3D-sensing shipment base, while dToF and ultra-short-pulse products offer stronger value-growth potential in robotics, industrial measurement, automotive sensing and short-range LiDAR. Products in the mid-current range remain central to mobile and consumer sensing, whereas higher-current and sub-nanosecond devices form a smaller but technically differentiated segment. Mobile LDAF and consumer camera applications contribute more than half of modeled unit demand, but industrial, robotic and automotive applications account for a disproportionately larger share of value because of higher ASPs, lower-volume customization and stricter reliability requirements.

Downstream Market Opportunities

The largest shipment opportunity remains compact optical sensing in mobile devices and consumer electronics, where customers prioritize small wafer-level packages, low power, automatic illumination control and low system cost. Future value creation is shifting toward applications where depth data directly supports autonomous operation or safety-related functions. Mobile robots require reliable obstacle detection and mapping across varying surfaces; industrial systems require repeatable distance measurement and three-dimensional inspection; automotive cabin systems require stable operation across temperature and lighting conditions; and projectors, smart locks and building devices require low-power ranging in compact form factors. Suppliers that can reuse a scalable driver platform across these applications while adjusting output current, pulse

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width, interfaces and protection functions are better positioned to capture diversified design wins without relying on a single end market.

Regional Insights

Asia accounts for more than half of the verified core supplier base. Mainland China has the densest cluster of independent consumer-oriented ToF laser and VCSEL driver developers, supported by proximity to smartphone, camera-module and smart-device manufacturing. Chinese suppliers are strongest in compact packaging, cost-sensitive current ranges, fast customer response and localized supply-chain support. Japan combines large diversified semiconductor groups with image-sensor and automotive ToF expertise, while South Korea contributes specialist camera and optical-driver design capabilities.

Europe has a comparatively strong position in automotive, industrial and high-reliability ToF devices, including fast-switching VCSEL drivers and precision short-pulse products. North American suppliers are more visible in integrated high-speed current drivers, GaN power stages and high-current laser-firing architectures. Regional demand is more geographically distributed than the supplier base: Asia remains important for consumer production, while Europe, Japan and North America provide a larger proportion of automotive and industrial design activity. Future regional competition is expected to reflect both China-based supply-chain localization and continued technology leadership in high-performance automotive and industrial products.

Competitive Landscape Analysis

The competitive landscape consists of 12 verified core manufacturers and is more concentrated than the broader ToF sensor ecosystem. Large diversified semiconductor groups—including Sony Group Corporation, Texas Instruments Incorporated, Infineon Technologies AG and Asahi Kasei Corporation—benefit from established process technology, automotive or industrial qualification resources, global customer support and adjacent image-sensing or analog product portfolios. China-based fabless suppliers such as Shenzhen Goodix Technology, Shanghai Awinic Technology, Wuxi ETEK Micro-Electronics and Photonic Tech compete through compact integration, cost control, rapid customization and proximity to consumer-electronics supply chains. iC-Haus, Efficient Power Conversion and Silanna Semiconductor differentiate through ultra-short pulses, high-current switching, GaN integration or specialized laser-firing architectures, while

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DONGWOON ANATECH brings camera-driver and Asian mobile-market experience. Competitive advantage is increasingly determined by pulse quality, VCSEL compatibility, closed-loop optical-power control, safety diagnostics, packaging parasitics and system-level reference support rather than output-current specifications alone. At the same time, integrated ToF solutions from major sensor suppliers create continuing substitution pressure on standalone devices. The market is therefore likely to remain segmented between high-volume cost-sensitive drivers, specialized high-performance products and sensor-integrated architectures, with limited evidence supporting a single supplier’s dominance across all product and application categories.

Report Scope

This report is a detailed and comprehensive analysis for global Time-of-Flight Auto-Focus Driver IC 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 Time-of-Flight Auto-Focus Driver IC market size and forecasts, in consumption value ($ Million), sales quantity (Million Units), and average selling prices (US$/Unit), 2021-2032

Global Time-of-Flight Auto-Focus Driver IC 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 Time-of-Flight Auto-Focus Driver IC 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 Time-of-Flight Auto-Focus Driver IC market shares of main players, shipments in revenue ($ Million), sales quantity (Million Units), and ASP (US$/Unit), 2021-2026

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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 Time-of-Flight Auto-Focus Driver IC

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 Time-of-Flight Auto-Focus Driver IC 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 Sony Group Corporation, Texas Instruments Incorporated, Infineon Technologies AG, Asahi Kasei Corporation, Shenzhen Goodix Technology Co., Ltd., Shanghai Awinic Technology Co., Ltd., Wuxi ETEK Micro-Electronics Co., Ltd., iC-Haus GmbH, DONGWOON ANATECH Co., Ltd., Photonic Tech (Shanghai) Co., Ltd., etc.

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

Time-of-Flight Auto-Focus Driver IC 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 Segmentation

Market segment by Type

Standalone ToF Driver IC

ToF AFE with Integrated Driver

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Other

Market segment by ToF Measurement Principle

Indirect Time-of-Flight Driver

Direct Time-of-Flight Driver

Multi-Mode ToF Driver

Other

Market segment by Peak Output Current

Up to 1 A

Above 1 A to 4 A

Above 4 A to 10 A

Above 10 A

Market segment by Drive Waveform

Continuous-Wave Modulation Driver

Nanosecond Pulse Driver

Sub-Nanosecond Pulse Driver

Other

Market segment by Application

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Consumer 3D Sensing

Projection Auto Focus and Optical Alignment

Smart Access and Presence Sensing

Robotics and Industrial Ranging

Automotive In-Cabin and Short-Range Sensing

Short-Range LiDAR

Other

Major players covered

Sony Group Corporation

Texas Instruments Incorporated

Infineon Technologies AG

Asahi Kasei Corporation

Shenzhen Goodix Technology Co., Ltd.

Shanghai Awinic Technology Co., Ltd.

Wuxi ETEK Micro-Electronics Co., Ltd.

iC-Haus GmbH

DONGWOON ANATECH Co., Ltd.

Photonic Tech (Shanghai) Co., Ltd.

Efficient Power Conversion Corporation

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Silanna Semiconductor

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)

Chapter Outline

Chapter 1, to describe Time-of-Flight Auto-Focus Driver IC product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Time-of-Flight Auto-Focus Driver IC, with price, sales quantity, revenue, and global market share of Time-of-Flight Auto-Focus Driver IC from 2021 to 2026.

Chapter 3, the Time-of-Flight Auto-Focus Driver IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Time-of-Flight Auto-Focus Driver IC 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

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quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Time-of-Flight Auto-Focus Driver IC 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 Time-of-Flight Auto-Focus Driver IC.

Chapter 14 and 15, to describe Time-of-Flight Auto-Focus Driver IC sales channel, distributors, customers, research findings and conclusion.

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Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope
1.2 Market Estimation Caveats and Base Year
1.3 Market Analysis by Type
  1.3.1 Overview: Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Type: 2021 Versus 2025 Versus 2032
  1.3.2 Standalone ToF Driver IC
  1.3.3 ToF AFE with Integrated Driver
  1.3.4 Other
1.4 Market Analysis by ToF Measurement Principle
  1.4.1 Overview: Global Time-of-Flight Auto-Focus Driver IC Consumption Value by ToF Measurement Principle: 2021 Versus 2025 Versus 2032
  1.4.2 Indirect Time-of-Flight Driver
  1.4.3 Direct Time-of-Flight Driver
  1.4.4 Multi-Mode ToF Driver
  1.4.5 Other
1.5 Market Analysis by Peak Output Current
  1.5.1 Overview: Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Peak Output Current: 2021 Versus 2025 Versus 2032
  1.5.2 Up to 1 A
  1.5.3 Above 1 A to 4 A
  1.5.4 Above 4 A to 10 A
  1.5.5 Above 10 A
1.6 Market Analysis by Drive Waveform
  1.6.1 Overview: Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Drive Waveform: 2021 Versus 2025 Versus 2032
  1.6.2 Continuous-Wave Modulation Driver
  1.6.3 Nanosecond Pulse Driver
  1.6.4 Sub-Nanosecond Pulse Driver
  1.6.5 Other
1.7 Market Analysis by Application
  1.7.1 Overview: Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Application: 2021 Versus 2025 Versus 2032
  1.7.2 Consumer 3D Sensing
  1.7.3 Projection Auto Focus and Optical Alignment
  1.7.4 Smart Access and Presence Sensing

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1.7.5 Robotics and Industrial Ranging
1.7.6 Automotive In-Cabin and Short-Range Sensing
1.7.7 Short-Range LiDAR
1.7.8 Other
1.8 Global Time-of-Flight Auto-Focus Driver IC Market Size & Forecast
1.8.1 Global Time-of-Flight Auto-Focus Driver IC Consumption Value (2021 & 2025 & 2032)
1.8.2 Global Time-of-Flight Auto-Focus Driver IC Sales Quantity (2021-2032)
1.8.3 Global Time-of-Flight Auto-Focus Driver IC Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Sony Group Corporation
2.1.1 Sony Group Corporation Details
2.1.2 Sony Group Corporation Major Business
2.1.3 Sony Group Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
2.1.4 Sony Group Corporation Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.1.5 Sony Group Corporation Recent Developments/Updates
2.2 Texas Instruments Incorporated
2.2.1 Texas Instruments Incorporated Details
2.2.2 Texas Instruments Incorporated Major Business
2.2.3 Texas Instruments Incorporated Time-of-Flight Auto-Focus Driver IC Product and Services
2.2.4 Texas Instruments Incorporated Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.2.5 Texas Instruments Incorporated Recent Developments/Updates
2.3 Infineon Technologies AG
2.3.1 Infineon Technologies AG Details
2.3.2 Infineon Technologies AG Major Business
2.3.3 Infineon Technologies AG Time-of-Flight Auto-Focus Driver IC Product and Services
2.3.4 Infineon Technologies AG Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.3.5 Infineon Technologies AG Recent Developments/Updates
2.4 Asahi Kasei Corporation
2.4.1 Asahi Kasei Corporation Details
2.4.2 Asahi Kasei Corporation Major Business

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2.4.3 Asahi Kasei Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
2.4.4 Asahi Kasei Corporation Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.4.5 Asahi Kasei Corporation Recent Developments/Updates
2.5 Shenzhen Goodix Technology Co., Ltd.
2.5.1 Shenzhen Goodix Technology Co., Ltd. Details
2.5.2 Shenzhen Goodix Technology Co., Ltd. Major Business
2.5.3 Shenzhen Goodix Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
2.5.4 Shenzhen Goodix Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.5.5 Shenzhen Goodix Technology Co., Ltd. Recent Developments/Updates
2.6 Shanghai Awinic Technology Co., Ltd.
2.6.1 Shanghai Awinic Technology Co., Ltd. Details
2.6.2 Shanghai Awinic Technology Co., Ltd. Major Business
2.6.3 Shanghai Awinic Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
2.6.4 Shanghai Awinic Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.6.5 Shanghai Awinic Technology Co., Ltd. Recent Developments/Updates
2.7 Wuxi ETEK Micro-Electronics Co., Ltd.
2.7.1 Wuxi ETEK Micro-Electronics Co., Ltd. Details
2.7.2 Wuxi ETEK Micro-Electronics Co., Ltd. Major Business
2.7.3 Wuxi ETEK Micro-Electronics Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
2.7.4 Wuxi ETEK Micro-Electronics Co., Ltd. Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.7.5 Wuxi ETEK Micro-Electronics Co., Ltd. Recent Developments/Updates
2.8 iC-Haus GmbH
2.8.1 iC-Haus GmbH Details
2.8.2 iC-Haus GmbH Major Business
2.8.3 iC-Haus GmbH Time-of-Flight Auto-Focus Driver IC Product and Services
2.8.4 iC-Haus GmbH Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.8.5 iC-Haus GmbH Recent Developments/Updates
2.9 DONGWOON ANATECH Co., Ltd.
2.9.1 DONGWOON ANATECH Co., Ltd. Details
2.9.2 DONGWOON ANATECH Co., Ltd. Major Business

2.9.3 DONGWOON ANATECH Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
2.9.4 DONGWOON ANATECH Co., Ltd. Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.9.5 DONGWOON ANATECH Co., Ltd. Recent Developments/Updates
2.10 Photonic Tech (Shanghai) Co., Ltd.
2.10.1 Photonic Tech (Shanghai) Co., Ltd. Details
2.10.2 Photonic Tech (Shanghai) Co., Ltd. Major Business
2.10.3 Photonic Tech (Shanghai) Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
2.10.4 Photonic Tech (Shanghai) Co., Ltd. Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.10.5 Photonic Tech (Shanghai) Co., Ltd. Recent Developments/Updates
2.11 Efficient Power Conversion Corporation
2.11.1 Efficient Power Conversion Corporation Details
2.11.2 Efficient Power Conversion Corporation Major Business
2.11.3 Efficient Power Conversion Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
2.11.4 Efficient Power Conversion Corporation Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.11.5 Efficient Power Conversion Corporation Recent Developments/Updates
2.12 Silanna Semiconductor
2.12.1 Silanna Semiconductor Details
2.12.2 Silanna Semiconductor Major Business
2.12.3 Silanna Semiconductor Time-of-Flight Auto-Focus Driver IC Product and Services
2.12.4 Silanna Semiconductor Time-of-Flight Auto-Focus Driver IC Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
2.12.5 Silanna Semiconductor Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: TIME-OF-FLIGHT AUTO-FOCUS DRIVER IC BY MANUFACTURER

3.1 Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Manufacturer (2021-2026)
3.2 Global Time-of-Flight Auto-Focus Driver IC Revenue by Manufacturer (2021-2026)
3.3 Global Time-of-Flight Auto-Focus Driver IC Average Price by Manufacturer (2021-2026)
3.4 Market Share Analysis (2025)

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info@marketpublishers.com

3.4.1 Producer Shipments of Time-of-Flight Auto-Focus Driver IC by Manufacturer Revenue ($MM) and Market Share (%): 2025
3.4.2 Top 3 Time-of-Flight Auto-Focus Driver IC Manufacturer Market Share in 2025
3.4.3 Top 6 Time-of-Flight Auto-Focus Driver IC Manufacturer Market Share in 2025
3.5 Time-of-Flight Auto-Focus Driver IC Market: Overall Company Footprint Analysis
3.5.1 Time-of-Flight Auto-Focus Driver IC Market: Region Footprint
3.5.2 Time-of-Flight Auto-Focus Driver IC Market: Company Product Type Footprint
3.5.3 Time-of-Flight Auto-Focus Driver IC Market: Company Product Application Footprint
3.6 New Market Entrants and Barriers to Market Entry
3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Time-of-Flight Auto-Focus Driver IC Market Size by Region
4.1.1 Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Region (2021-2032)
4.1.2 Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Region (2021-2032)
4.1.3 Global Time-of-Flight Auto-Focus Driver IC Average Price by Region (2021-2032)
4.2 North America Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032)
4.3 Europe Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032)
4.4 Asia-Pacific Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032)
4.5 South America Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032)
4.6 Middle East & Africa Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2032)
5.2 Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Type (2021-2032)
5.3 Global Time-of-Flight Auto-Focus Driver IC Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application

+357 96 030922
info@marketpublishers.com

(2021-2032)
6.2 Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Application (2021-2032)
6.3 Global Time-of-Flight Auto-Focus Driver IC Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2032)
7.2 North America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2032)
7.3 North America Time-of-Flight Auto-Focus Driver IC Market Size by Country
  7.3.1 North America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2021-2032)
  7.3.2 North America Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2021-2032)
  7.3.3 United States Market Size and Forecast (2021-2032)
  7.3.4 Canada Market Size and Forecast (2021-2032)
  7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2032)
8.2 Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2032)
8.3 Europe Time-of-Flight Auto-Focus Driver IC Market Size by Country
  8.3.1 Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2021-2032)
  8.3.2 Europe Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2021-2032)
  8.3.3 Germany Market Size and Forecast (2021-2032)
  8.3.4 France Market Size and Forecast (2021-2032)
  8.3.5 United Kingdom Market Size and Forecast (2021-2032)
  8.3.6 Russia Market Size and Forecast (2021-2032)
  8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

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9.1 Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2032)
9.2 Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2032)
9.3 Asia-Pacific Time-of-Flight Auto-Focus Driver IC Market Size by Region
9.3.1 Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity by Region (2021-2032)
9.3.2 Asia-Pacific Time-of-Flight Auto-Focus Driver IC Consumption Value by Region (2021-2032)
9.3.3 China Market Size and Forecast (2021-2032)
9.3.4 Japan Market Size and Forecast (2021-2032)
9.3.5 South Korea Market Size and Forecast (2021-2032)
9.3.6 India Market Size and Forecast (2021-2032)
9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2032)
10.2 South America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2032)
10.3 South America Time-of-Flight Auto-Focus Driver IC Market Size by Country
10.3.1 South America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2021-2032)
10.3.2 South America Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2021-2032)
10.3.3 Brazil Market Size and Forecast (2021-2032)
10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2032)
11.2 Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2032)
11.3 Middle East & Africa Time-of-Flight Auto-Focus Driver IC Market Size by Country
11.3.1 Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2021-2032)

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11.3.2 Middle East & Africa Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2021-2032)
11.3.3 Turkey Market Size and Forecast (2021-2032)
11.3.4 Egypt Market Size and Forecast (2021-2032)
11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Time-of-Flight Auto-Focus Driver IC Market Drivers
12.2 Time-of-Flight Auto-Focus Driver IC Market Restraints
12.3 Time-of-Flight Auto-Focus Driver IC Trends Analysis
12.4 Porters Five Forces Analysis
12.4.1 Threat of New Entrants
12.4.2 Bargaining Power of Suppliers
12.4.3 Bargaining Power of Buyers
12.4.4 Threat of Substitutes
12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Time-of-Flight Auto-Focus Driver IC and Key Manufacturers
13.2 Manufacturing Costs Percentage of Time-of-Flight Auto-Focus Driver IC
13.3 Time-of-Flight Auto-Focus Driver IC Production Process
13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel
14.1.1 Direct to End-User
14.1.2 Distributors
14.2 Time-of-Flight Auto-Focus Driver IC Typical Distributors
14.3 Time-of-Flight Auto-Focus Driver IC Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

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16.2 Research Process and Data Source
16.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Type, (USD Million), 2021 & 2025 & 2032
Table 2. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by ToF Measurement Principle, (USD Million), 2021 & 2025 & 2032
Table 3. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Peak Output Current, (USD Million), 2021 & 2025 & 2032
Table 4. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Drive Waveform, (USD Million), 2021 & 2025 & 2032
Table 5. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Table 6. Sony Group Corporation Basic Information, Manufacturing Base and Competitors
Table 7. Sony Group Corporation Major Business
Table 8. Sony Group Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
Table 9. Sony Group Corporation Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 10. Sony Group Corporation Recent Developments/Updates
Table 11. Texas Instruments Incorporated Basic Information, Manufacturing Base and Competitors
Table 12. Texas Instruments Incorporated Major Business
Table 13. Texas Instruments Incorporated Time-of-Flight Auto-Focus Driver IC Product and Services
Table 14. Texas Instruments Incorporated Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 15. Texas Instruments Incorporated Recent Developments/Updates
Table 16. Infineon Technologies AG Basic Information, Manufacturing Base and Competitors
Table 17. Infineon Technologies AG Major Business
Table 18. Infineon Technologies AG Time-of-Flight Auto-Focus Driver IC Product and Services
Table 19. Infineon Technologies AG Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and

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Market Share (2021-2026)
Table 20. Infineon Technologies AG Recent Developments/Updates
Table 21. Asahi Kasei Corporation Basic Information, Manufacturing Base and Competitors
Table 22. Asahi Kasei Corporation Major Business
Table 23. Asahi Kasei Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
Table 24. Asahi Kasei Corporation Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 25. Asahi Kasei Corporation Recent Developments/Updates
Table 26. Shenzhen Goodix Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 27. Shenzhen Goodix Technology Co., Ltd. Major Business
Table 28. Shenzhen Goodix Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
Table 29. Shenzhen Goodix Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 30. Shenzhen Goodix Technology Co., Ltd. Recent Developments/Updates
Table 31. Shanghai Awinic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 32. Shanghai Awinic Technology Co., Ltd. Major Business
Table 33. Shanghai Awinic Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
Table 34. Shanghai Awinic Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 35. Shanghai Awinic Technology Co., Ltd. Recent Developments/Updates
Table 36. Wuxi ETEK Micro-Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 37. Wuxi ETEK Micro-Electronics Co., Ltd. Major Business
Table 38. Wuxi ETEK Micro-Electronics Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
Table 39. Wuxi ETEK Micro-Electronics Co., Ltd. Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 40. Wuxi ETEK Micro-Electronics Co., Ltd. Recent Developments/Updates
Table 41. iC-Haus GmbH Basic Information, Manufacturing Base and Competitors

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Table 42. iC-Haus GmbH Major Business
Table 43. iC-Haus GmbH Time-of-Flight Auto-Focus Driver IC Product and Services
Table 44. iC-Haus GmbH Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 45. iC-Haus GmbH Recent Developments/Updates
Table 46. DONGWOON ANATECH Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 47. DONGWOON ANATECH Co., Ltd. Major Business
Table 48. DONGWOON ANATECH Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
Table 49. DONGWOON ANATECH Co., Ltd. Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 50. DONGWOON ANATECH Co., Ltd. Recent Developments/Updates
Table 51. Photonic Tech (Shanghai) Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 52. Photonic Tech (Shanghai) Co., Ltd. Major Business
Table 53. Photonic Tech (Shanghai) Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
Table 54. Photonic Tech (Shanghai) Co., Ltd. Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 55. Photonic Tech (Shanghai) Co., Ltd. Recent Developments/Updates
Table 56. Efficient Power Conversion Corporation Basic Information, Manufacturing Base and Competitors
Table 57. Efficient Power Conversion Corporation Major Business
Table 58. Efficient Power Conversion Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
Table 59. Efficient Power Conversion Corporation Time-of-Flight Auto-Focus Driver IC Sales Quantity (Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 60. Efficient Power Conversion Corporation Recent Developments/Updates
Table 61. Silanna Semiconductor Basic Information, Manufacturing Base and Competitors
Table 62. Silanna Semiconductor Major Business
Table 63. Silanna Semiconductor Time-of-Flight Auto-Focus Driver IC Product and Services
Table 64. Silanna Semiconductor Time-of-Flight Auto-Focus Driver IC Sales Quantity

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(Million Units), Average Price (US$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
Table 65. Silanna Semiconductor Recent Developments/Updates
Table 66. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Manufacturer (2021-2026) & (Million Units)
Table 67. Global Time-of-Flight Auto-Focus Driver IC Revenue by Manufacturer (2021-2026) & (USD Million)
Table 68. Global Time-of-Flight Auto-Focus Driver IC Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 69. Market Position of Manufacturers in Time-of-Flight Auto-Focus Driver IC, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
Table 70. Head Office and Time-of-Flight Auto-Focus Driver IC Production Site of Key Manufacturer
Table 71. Time-of-Flight Auto-Focus Driver IC Market: Company Product Type Footprint
Table 72. Time-of-Flight Auto-Focus Driver IC Market: Company Product Application Footprint
Table 73. Time-of-Flight Auto-Focus Driver IC New Market Entrants and Barriers to Market Entry
Table 74. Time-of-Flight Auto-Focus Driver IC Mergers, Acquisition, Agreements, and Collaborations
Table 75. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
Table 76. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Region (2021-2026) & (Million Units)
Table 77. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Region (2027-2032) & (Million Units)
Table 78. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Region (2021-2026) & (USD Million)
Table 79. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Region (2027-2032) & (USD Million)
Table 80. Global Time-of-Flight Auto-Focus Driver IC Average Price by Region (2021-2026) & (US$/Unit)
Table 81. Global Time-of-Flight Auto-Focus Driver IC Average Price by Region (2027-2032) & (US$/Unit)
Table 82. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2026) & (Million Units)
Table 83. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2027-2032) & (Million Units)
Table 84. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Type

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(2021-2026) & (USD Million)
Table 85. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Type (2027-2032) & (USD Million)
Table 86. Global Time-of-Flight Auto-Focus Driver IC Average Price by Type (2021-2026) & (US$/Unit)
Table 87. Global Time-of-Flight Auto-Focus Driver IC Average Price by Type (2027-2032) & (US$/Unit)
Table 88. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2026) & (Million Units)
Table 89. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2027-2032) & (Million Units)
Table 90. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Application (2021-2026) & (USD Million)
Table 91. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Application (2027-2032) & (USD Million)
Table 92. Global Time-of-Flight Auto-Focus Driver IC Average Price by Application (2021-2026) & (US$/Unit)
Table 93. Global Time-of-Flight Auto-Focus Driver IC Average Price by Application (2027-2032) & (US$/Unit)
Table 94. North America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2026) & (Million Units)
Table 95. North America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2027-2032) & (Million Units)
Table 96. North America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2026) & (Million Units)
Table 97. North America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2027-2032) & (Million Units)
Table 98. North America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2021-2026) & (Million Units)
Table 99. North America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2027-2032) & (Million Units)
Table 100. North America Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2021-2026) & (USD Million)
Table 101. North America Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2027-2032) & (USD Million)
Table 102. Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2026) & (Million Units)
Table 103. Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2027-2032) & (Million Units)

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Table 104. Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2026) & (Million Units)
Table 105. Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2027-2032) & (Million Units)
Table 106. Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2021-2026) & (Million Units)
Table 107. Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2027-2032) & (Million Units)
Table 108. Europe Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2021-2026) & (USD Million)
Table 109. Europe Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2027-2032) & (USD Million)
Table 110. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2026) & (Million Units)
Table 111. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2027-2032) & (Million Units)
Table 112. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2026) & (Million Units)
Table 113. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2027-2032) & (Million Units)
Table 114. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity by Region (2021-2026) & (Million Units)
Table 115. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity by Region (2027-2032) & (Million Units)
Table 116. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Consumption Value by Region (2021-2026) & (USD Million)
Table 117. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Consumption Value by Region (2027-2032) & (USD Million)
Table 118. South America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2026) & (Million Units)
Table 119. South America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2027-2032) & (Million Units)
Table 120. South America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2026) & (Million Units)
Table 121. South America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2027-2032) & (Million Units)
Table 122. South America Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2021-2026) & (Million Units)
Table 123. South America Time-of-Flight Auto-Focus Driver IC Sales Quantity by

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Country (2027-2032) & (Million Units)
Table 124. South America Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2021-2026) & (USD Million)
Table 125. South America Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2027-2032) & (USD Million)
Table 126. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2021-2026) & (Million Units)
Table 127. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity by Type (2027-2032) & (Million Units)
Table 128. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2021-2026) & (Million Units)
Table 129. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity by Application (2027-2032) & (Million Units)
Table 130. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2021-2026) & (Million Units)
Table 131. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity by Country (2027-2032) & (Million Units)
Table 132. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2021-2026) & (USD Million)
Table 133. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Consumption Value by Country (2027-2032) & (USD Million)
Table 134. Time-of-Flight Auto-Focus Driver IC Raw Material
Table 135. Key Manufacturers of Time-of-Flight Auto-Focus Driver IC Raw Materials
Table 136. Time-of-Flight Auto-Focus Driver IC Typical Distributors
Table 137. Time-of-Flight Auto-Focus Driver IC Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Time-of-Flight Auto-Focus Driver IC Picture
Figure 2. Global Time-of-Flight Auto-Focus Driver IC Revenue by Type, (USD Million), 2021 & 2025 & 2032
Figure 3. Global Time-of-Flight Auto-Focus Driver IC Revenue Market Share by Type in 2025
Figure 4. Standalone ToF Driver IC Examples
Figure 5. ToF AFE with Integrated Driver Examples
Figure 6. Other Examples
Figure 7. Global Time-of-Flight Auto-Focus Driver IC Revenue by ToF Measurement Principle, (USD Million), 2021 & 2025 & 2032
Figure 8. Global Time-of-Flight Auto-Focus Driver IC Revenue Market Share by ToF Measurement Principle in 2025
Figure 9. Indirect Time-of-Flight Driver Examples
Figure 10. Direct Time-of-Flight Driver Examples
Figure 11. Multi-Mode ToF Driver Examples
Figure 12. Other Examples
Figure 13. Global Time-of-Flight Auto-Focus Driver IC Revenue by Peak Output Current, (USD Million), 2021 & 2025 & 2032
Figure 14. Global Time-of-Flight Auto-Focus Driver IC Revenue Market Share by Peak Output Current in 2025
Figure 15. Up to 1 A Examples
Figure 16. Above 1 A to 4 A Examples
Figure 17. Above 4 A to 10 A Examples
Figure 18. Above 10 A Examples
Figure 19. Global Time-of-Flight Auto-Focus Driver IC Revenue by Drive Waveform, (USD Million), 2021 & 2025 & 2032
Figure 20. Global Time-of-Flight Auto-Focus Driver IC Revenue Market Share by Drive Waveform in 2025
Figure 21. Continuous-Wave Modulation Driver Examples
Figure 22. Nanosecond Pulse Driver Examples
Figure 23. Sub-Nanosecond Pulse Driver Examples
Figure 24. Other Examples
Figure 25. Global Time-of-Flight Auto-Focus Driver IC Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 26. Global Time-of-Flight Auto-Focus Driver IC Revenue Market Share by

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Application in 2025
Figure 27. Consumer 3D Sensing Examples
Figure 28. Projection Auto Focus and Optical Alignment Examples
Figure 29. Smart Access and Presence Sensing Examples
Figure 30. Robotics and Industrial Ranging Examples
Figure 31. Automotive In-Cabin and Short-Range Sensing Examples
Figure 32. Short-Range LiDAR Examples
Figure 33. Other Examples
Figure 34. Global Time-of-Flight Auto-Focus Driver IC Consumption Value, (USD Million): 2021 & 2025 & 2032
Figure 35. Global Time-of-Flight Auto-Focus Driver IC Consumption Value and Forecast (2021-2032) & (USD Million)
Figure 36. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity (2021-2032) & (Million Units)
Figure 37. Global Time-of-Flight Auto-Focus Driver IC Price (2021-2032) & (US$/Unit)
Figure 38. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Manufacturer in 2025
Figure 39. Global Time-of-Flight Auto-Focus Driver IC Revenue Market Share by Manufacturer in 2025
Figure 40. Producer Shipments of Time-of-Flight Auto-Focus Driver IC by Manufacturer Sales ($MM) and Market Share (%): 2025
Figure 41. Top 3 Time-of-Flight Auto-Focus Driver IC Manufacturer (Revenue) Market Share in 2025
Figure 42. Top 6 Time-of-Flight Auto-Focus Driver IC Manufacturer (Revenue) Market Share in 2025
Figure 43. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Region (2021-2032)
Figure 44. Global Time-of-Flight Auto-Focus Driver IC Consumption Value Market Share by Region (2021-2032)
Figure 45. North America Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 46. Europe Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 47. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 48. South America Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 49. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)

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Figure 50. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Type (2021-2032)
Figure 51. Global Time-of-Flight Auto-Focus Driver IC Consumption Value Market Share by Type (2021-2032)
Figure 52. Global Time-of-Flight Auto-Focus Driver IC Average Price by Type (2021-2032) & (US$/Unit)
Figure 53. Global Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Application (2021-2032)
Figure 54. Global Time-of-Flight Auto-Focus Driver IC Revenue Market Share by Application (2021-2032)
Figure 55. Global Time-of-Flight Auto-Focus Driver IC Average Price by Application (2021-2032) & (US$/Unit)
Figure 56. North America Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Type (2021-2032)
Figure 57. North America Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Application (2021-2032)
Figure 58. North America Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Country (2021-2032)
Figure 59. North America Time-of-Flight Auto-Focus Driver IC Consumption Value Market Share by Country (2021-2032)
Figure 60. United States Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 61. Canada Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 62. Mexico Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 63. Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Type (2021-2032)
Figure 64. Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Application (2021-2032)
Figure 65. Europe Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Country (2021-2032)
Figure 66. Europe Time-of-Flight Auto-Focus Driver IC Consumption Value Market Share by Country (2021-2032)
Figure 67. Germany Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 68. France Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 69. United Kingdom Time-of-Flight Auto-Focus Driver IC Consumption Value

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(2021-2032) & (USD Million)
Figure 70. Russia Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 71. Italy Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 72. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Type (2021-2032)
Figure 73. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Application (2021-2032)
Figure 74. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Region (2021-2032)
Figure 75. Asia-Pacific Time-of-Flight Auto-Focus Driver IC Consumption Value Market Share by Region (2021-2032)
Figure 76. China Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 77. Japan Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 78. South Korea Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 79. India Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 80. Southeast Asia Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 81. Australia Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 82. South America Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Type (2021-2032)
Figure 83. South America Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Application (2021-2032)
Figure 84. South America Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Country (2021-2032)
Figure 85. South America Time-of-Flight Auto-Focus Driver IC Consumption Value Market Share by Country (2021-2032)
Figure 86. Brazil Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 87. Argentina Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 88. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Type (2021-2032)

+357 96 030922
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Figure 89. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Application (2021-2032)
Figure 90. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Sales Quantity Market Share by Country (2021-2032)
Figure 91. Middle East & Africa Time-of-Flight Auto-Focus Driver IC Consumption Value Market Share by Country (2021-2032)
Figure 92. Turkey Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 93. Egypt Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 94. Saudi Arabia Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 95. South Africa Time-of-Flight Auto-Focus Driver IC Consumption Value (2021-2032) & (USD Million)
Figure 96. Time-of-Flight Auto-Focus Driver IC Market Drivers
Figure 97. Time-of-Flight Auto-Focus Driver IC Market Restraints
Figure 98. Time-of-Flight Auto-Focus Driver IC Market Trends
Figure 99. Porters Five Forces Analysis
Figure 100. Manufacturing Cost Structure Analysis of Time-of-Flight Auto-Focus Driver IC in 2025
Figure 101. Manufacturing Process Analysis of Time-of-Flight Auto-Focus Driver IC
Figure 102. Time-of-Flight Auto-Focus Driver IC Industrial Chain
Figure 103. Sales Channel: Direct to End-User vs Distributors
Figure 104. Direct Channel Pros & Cons
Figure 105. Indirect Channel Pros & Cons
Figure 106. Methodology
Figure 107. Research Process and Data Source

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