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Global Time-of-Flight Auto-Focus Driver IC Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Time-of-Flight Auto-Focus Driver IC market size is expected to reach $ 227 million by 2032, rising at a market growth of 13.8% CAGR during the forecast period (2026-2032).

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.

Key Findings

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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

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

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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 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.

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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, 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

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

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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 DONGWOON ANATECH brings camera-driver and Asian mobile-market experience. Competitive advantage is increasingly determined by pulse quality, VCSEL

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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 studies the global Time-of-Flight Auto-Focus Driver IC production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Time-of-Flight Auto-Focus 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 Time-of-Flight Auto-Focus Driver IC that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Time-of-Flight Auto-Focus Driver IC total production and demand, 2021-2032, (Million Units)

Global Time-of-Flight Auto-Focus Driver IC total production value, 2021-2032, (USD Million)

Global Time-of-Flight Auto-Focus Driver IC production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Time-of-Flight Auto-Focus Driver IC consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Time-of-Flight Auto-Focus Driver IC domestic production, consumption, key domestic manufacturers and share

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Global Time-of-Flight Auto-Focus Driver IC production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Time-of-Flight Auto-Focus Driver IC production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Time-of-Flight Auto-Focus Driver IC production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Time-of-Flight Auto-Focus 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Time-of-Flight Auto-Focus Driver IC market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Million 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 Time-of-Flight Auto-Focus Driver IC Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Time-of-Flight Auto-Focus Driver IC Market, Segmentation by Type:

Standalone ToF Driver IC

ToF AFE with Integrated Driver

Other

Global Time-of-Flight Auto-Focus Driver IC Market, Segmentation by ToF Measurement Principle:

Indirect Time-of-Flight Driver

Direct Time-of-Flight Driver

Multi-Mode ToF Driver

Other

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Global Time-of-Flight Auto-Focus Driver IC Market, Segmentation by Peak Output Current:

Up to 1 A

Above 1 A to 4 A

Above 4 A to 10 A

Above 10 A

Global Time-of-Flight Auto-Focus Driver IC Market, Segmentation by Drive Waveform:

Continuous-Wave Modulation Driver

Nanosecond Pulse Driver

Sub-Nanosecond Pulse Driver

Other

Global Time-of-Flight Auto-Focus Driver IC Market, Segmentation by Application:

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

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Short-Range LiDAR

Other

Companies Profiled:

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

Silanna Semiconductor

Key Questions Answered

1. How big is the global Time-of-Flight Auto-Focus Driver IC market?
2. What is the demand of the global Time-of-Flight Auto-Focus Driver IC market?
3. What is the year over year growth of the global Time-of-Flight Auto-Focus Driver IC

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market?
4. What is the total value of the global Time-of-Flight Auto-Focus Driver IC market?
5. Who are the Major Players in the global Time-of-Flight Auto-Focus Driver IC market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Time-of-Flight Auto-Focus Driver IC Introduction
1.2 World Time-of-Flight Auto-Focus Driver IC Supply & Forecast
  1.2.1 World Time-of-Flight Auto-Focus Driver IC Production Value (2021 & 2025 & 2032)
  1.2.2 World Time-of-Flight Auto-Focus Driver IC Production (2021-2032)
  1.2.3 World Time-of-Flight Auto-Focus Driver IC Pricing Trends (2021-2032)
1.3 World Time-of-Flight Auto-Focus Driver IC Production by Region (Based on Production Site)
  1.3.1 World Time-of-Flight Auto-Focus Driver IC Production Value by Region (2021-2032)
  1.3.2 World Time-of-Flight Auto-Focus Driver IC Production by Region (2021-2032)
  1.3.3 World Time-of-Flight Auto-Focus Driver IC Average Price by Region (2021-2032)
  1.3.4 China Time-of-Flight Auto-Focus Driver IC Production (2021-2032)
  1.3.5 Japan Time-of-Flight Auto-Focus Driver IC Production (2021-2032)
  1.3.6 South Korea Time-of-Flight Auto-Focus Driver IC Production (2021-2032)
  1.3.7 Europe Time-of-Flight Auto-Focus Driver IC Production (2021-2032)
  1.3.8 North America Time-of-Flight Auto-Focus Driver IC Production (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Time-of-Flight Auto-Focus Driver IC Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Time-of-Flight Auto-Focus Driver IC Major Market Trends

2 DEMAND SUMMARY

2.1 World Time-of-Flight Auto-Focus Driver IC Demand (2021-2032)
2.2 World Time-of-Flight Auto-Focus Driver IC Consumption by Region
  2.2.1 World Time-of-Flight Auto-Focus Driver IC Consumption by Region (2021-2026)
  2.2.2 World Time-of-Flight Auto-Focus Driver IC Consumption Forecast by Region (2027-2032)
2.3 United States Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032)
2.4 China Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032)
2.5 Europe Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032)
2.6 Japan Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032)
2.7 South Korea Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032)
2.8 ASEAN Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032)

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2.9 India Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Time-of-Flight Auto-Focus Driver IC Production Value by Manufacturer (2021-2026)
3.2 World Time-of-Flight Auto-Focus Driver IC Production by Manufacturer (2021-2026)
3.3 World Time-of-Flight Auto-Focus Driver IC Average Price by Manufacturer (2021-2026)
3.4 Time-of-Flight Auto-Focus Driver IC Company Evaluation Quadrant
3.5 Industry Rank and Concentration Rate (CR)
  3.5.1 Global Time-of-Flight Auto-Focus Driver IC Industry Rank of Major Manufacturers
  3.5.2 Global Concentration Ratios (CR4) for Time-of-Flight Auto-Focus Driver IC in 2025
  3.5.3 Global Concentration Ratios (CR8) for Time-of-Flight Auto-Focus Driver IC in 2025
3.6 Time-of-Flight Auto-Focus Driver IC Market: Overall Company Footprint Analysis
  3.6.1 Time-of-Flight Auto-Focus Driver IC Market: Region Footprint
  3.6.2 Time-of-Flight Auto-Focus Driver IC Market: Company Product Type Footprint
  3.6.3 Time-of-Flight Auto-Focus Driver IC Market: Company Product Application Footprint
3.7 Competitive Environment
  3.7.1 Historical Structure of the Industry
  3.7.2 Barriers of Market Entry
  3.7.3 Factors of Competition
3.8 New Entrant and Capacity Expansion Plans
3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Time-of-Flight Auto-Focus Driver IC Production Value Comparison
  4.1.1 United States VS China: Time-of-Flight Auto-Focus Driver IC Production Value Comparison (2021 & 2025 & 2032)
  4.1.2 United States VS China: Time-of-Flight Auto-Focus Driver IC Production Value Market Share Comparison (2021 & 2025 & 2032)
4.2 United States VS China: Time-of-Flight Auto-Focus Driver IC Production Comparison

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4.2.1 United States VS China: Time-of-Flight Auto-Focus Driver IC Production Comparison (2021 & 2025 & 2032)
4.2.2 United States VS China: Time-of-Flight Auto-Focus Driver IC Production Market Share Comparison (2021 & 2025 & 2032)
4.3 United States VS China: Time-of-Flight Auto-Focus Driver IC Consumption Comparison
4.3.1 United States VS China: Time-of-Flight Auto-Focus Driver IC Consumption Comparison (2021 & 2025 & 2032)
4.3.2 United States VS China: Time-of-Flight Auto-Focus Driver IC Consumption Market Share Comparison (2021 & 2025 & 2032)
4.4 United States Based Time-of-Flight Auto-Focus Driver IC Manufacturers and Market Share, 2021-2026
4.4.1 United States Based Time-of-Flight Auto-Focus Driver IC Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Value (2021-2026)
4.4.3 United States Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production (2021-2026)
4.5 China Based Time-of-Flight Auto-Focus Driver IC Manufacturers and Market Share
4.5.1 China Based Time-of-Flight Auto-Focus Driver IC Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Value (2021-2026)
4.5.3 China Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production (2021-2026)
4.6 Rest of World Based Time-of-Flight Auto-Focus Driver IC Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Time-of-Flight Auto-Focus Driver IC Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Time-of-Flight Auto-Focus Driver IC Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type

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5.2.1 Standalone ToF Driver IC
5.2.2 ToF AFE with Integrated Driver
5.2.3 Other
5.3 Market Segment by Type
5.3.1 World Time-of-Flight Auto-Focus Driver IC Production by Type (2021-2032)
5.3.2 World Time-of-Flight Auto-Focus Driver IC Production Value by Type (2021-2032)
5.3.3 World Time-of-Flight Auto-Focus Driver IC Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TOF MEASUREMENT PRINCIPLE

6.1 World Time-of-Flight Auto-Focus Driver IC Market Size Overview by ToF Measurement Principle: 2021 VS 2025 VS 2032
6.2 Segment Introduction by ToF Measurement Principle
6.2.1 Indirect Time-of-Flight Driver
6.2.2 Direct Time-of-Flight Driver
6.2.3 Multi-Mode ToF Driver
6.2.4 Other
6.3 Market Segment by ToF Measurement Principle
6.3.1 World Time-of-Flight Auto-Focus Driver IC Production by ToF Measurement Principle (2021-2032)
6.3.2 World Time-of-Flight Auto-Focus Driver IC Production Value by ToF Measurement Principle (2021-2032)
6.3.3 World Time-of-Flight Auto-Focus Driver IC Average Price by ToF Measurement Principle (2021-2032)

7 MARKET ANALYSIS BY PEAK OUTPUT CURRENT

7.1 World Time-of-Flight Auto-Focus Driver IC Market Size Overview by Peak Output Current: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Peak Output Current
7.2.1 Up to 1 A
7.2.2 Above 1 A to 4 A
7.2.3 Above 4 A to 10 A
7.2.4 Above 10 A
7.3 Market Segment by Peak Output Current
7.3.1 World Time-of-Flight Auto-Focus Driver IC Production by Peak Output Current (2021-2032)
7.3.2 World Time-of-Flight Auto-Focus Driver IC Production Value by Peak Output

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info@marketpublishers.com

Current (2021-2032)
7.3.3 World Time-of-Flight Auto-Focus Driver IC Average Price by Peak Output Current (2021-2032)

8 MARKET ANALYSIS BY DRIVE WAVEFORM

8.1 World Time-of-Flight Auto-Focus Driver IC Market Size Overview by Drive Waveform: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Drive Waveform
8.2.1 Continuous-Wave Modulation Driver
8.2.2 Nanosecond Pulse Driver
8.2.3 Sub-Nanosecond Pulse Driver
8.2.4 Other
8.3 Market Segment by Drive Waveform
8.3.1 World Time-of-Flight Auto-Focus Driver IC Production by Drive Waveform (2021-2032)
8.3.2 World Time-of-Flight Auto-Focus Driver IC Production Value by Drive Waveform (2021-2032)
8.3.3 World Time-of-Flight Auto-Focus Driver IC Average Price by Drive Waveform (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Time-of-Flight Auto-Focus Driver IC Market Size Overview by Application: 2021 VS 2025 VS 2032
9.2 Segment Introduction by Application
9.2.1 Consumer 3D Sensing
9.2.2 Projection Auto Focus and Optical Alignment
9.2.3 Smart Access and Presence Sensing
9.2.4 Robotics and Industrial Ranging
9.2.5 Automotive In-Cabin and Short-Range Sensing
9.2.6 Short-Range LiDAR
9.2.7 Other
9.3 Market Segment by Application
9.3.1 World Time-of-Flight Auto-Focus Driver IC Production by Application (2021-2032)
9.3.2 World Time-of-Flight Auto-Focus Driver IC Production Value by Application (2021-2032)
9.3.3 World Time-of-Flight Auto-Focus Driver IC Average Price by Application

+357 96 030922
info@marketpublishers.com

(2021-2032)

10 COMPANY PROFILES

10.1 Sony Group Corporation
10.1.1 Sony Group Corporation Details
10.1.2 Sony Group Corporation Major Business
10.1.3 Sony Group Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
10.1.4 Sony Group Corporation Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.1.5 Sony Group Corporation Recent Developments/Updates
10.1.6 Sony Group Corporation Competitive Strengths & Weaknesses
10.2 Texas Instruments Incorporated
10.2.1 Texas Instruments Incorporated Details
10.2.2 Texas Instruments Incorporated Major Business
10.2.3 Texas Instruments Incorporated Time-of-Flight Auto-Focus Driver IC Product and Services
10.2.4 Texas Instruments Incorporated Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.2.5 Texas Instruments Incorporated Recent Developments/Updates
10.2.6 Texas Instruments Incorporated Competitive Strengths & Weaknesses
10.3 Infineon Technologies AG
10.3.1 Infineon Technologies AG Details
10.3.2 Infineon Technologies AG Major Business
10.3.3 Infineon Technologies AG Time-of-Flight Auto-Focus Driver IC Product and Services
10.3.4 Infineon Technologies AG Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.3.5 Infineon Technologies AG Recent Developments/Updates
10.3.6 Infineon Technologies AG Competitive Strengths & Weaknesses
10.4 Asahi Kasei Corporation
10.4.1 Asahi Kasei Corporation Details
10.4.2 Asahi Kasei Corporation Major Business
10.4.3 Asahi Kasei Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
10.4.4 Asahi Kasei Corporation Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.4.5 Asahi Kasei Corporation Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

10.4.6 Asahi Kasei Corporation Competitive Strengths & Weaknesses
10.5 Shenzhen Goodix Technology Co., Ltd.
10.5.1 Shenzhen Goodix Technology Co., Ltd. Details
10.5.2 Shenzhen Goodix Technology Co., Ltd. Major Business
10.5.3 Shenzhen Goodix Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
10.5.4 Shenzhen Goodix Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.5.5 Shenzhen Goodix Technology Co., Ltd. Recent Developments/Updates
10.5.6 Shenzhen Goodix Technology Co., Ltd. Competitive Strengths & Weaknesses
10.6 Shanghai Awinic Technology Co., Ltd.
10.6.1 Shanghai Awinic Technology Co., Ltd. Details
10.6.2 Shanghai Awinic Technology Co., Ltd. Major Business
10.6.3 Shanghai Awinic Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
10.6.4 Shanghai Awinic Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.6.5 Shanghai Awinic Technology Co., Ltd. Recent Developments/Updates
10.6.6 Shanghai Awinic Technology Co., Ltd. Competitive Strengths & Weaknesses
10.7 Wuxi ETEK Micro-Electronics Co., Ltd.
10.7.1 Wuxi ETEK Micro-Electronics Co., Ltd. Details
10.7.2 Wuxi ETEK Micro-Electronics Co., Ltd. Major Business
10.7.3 Wuxi ETEK Micro-Electronics Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
10.7.4 Wuxi ETEK Micro-Electronics Co., Ltd. Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.7.5 Wuxi ETEK Micro-Electronics Co., Ltd. Recent Developments/Updates
10.7.6 Wuxi ETEK Micro-Electronics Co., Ltd. Competitive Strengths & Weaknesses
10.8 iC-Haus GmbH
10.8.1 iC-Haus GmbH Details
10.8.2 iC-Haus GmbH Major Business
10.8.3 iC-Haus GmbH Time-of-Flight Auto-Focus Driver IC Product and Services
10.8.4 iC-Haus GmbH Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.8.5 iC-Haus GmbH Recent Developments/Updates
10.8.6 iC-Haus GmbH Competitive Strengths & Weaknesses
10.9 DONGWOON ANATECH Co., Ltd.
10.9.1 DONGWOON ANATECH Co., Ltd. Details
10.9.2 DONGWOON ANATECH Co., Ltd. Major Business

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10.9.3 DONGWOON ANATECH Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
10.9.4 DONGWOON ANATECH Co., Ltd. Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.9.5 DONGWOON ANATECH Co., Ltd. Recent Developments/Updates
10.9.6 DONGWOON ANATECH Co., Ltd. Competitive Strengths & Weaknesses
10.10 Photonic Tech (Shanghai) Co., Ltd.
10.10.1 Photonic Tech (Shanghai) Co., Ltd. Details
10.10.2 Photonic Tech (Shanghai) Co., Ltd. Major Business
10.10.3 Photonic Tech (Shanghai) Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
10.10.4 Photonic Tech (Shanghai) Co., Ltd. Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.10.5 Photonic Tech (Shanghai) Co., Ltd. Recent Developments/Updates
10.10.6 Photonic Tech (Shanghai) Co., Ltd. Competitive Strengths & Weaknesses
10.11 Efficient Power Conversion Corporation
10.11.1 Efficient Power Conversion Corporation Details
10.11.2 Efficient Power Conversion Corporation Major Business
10.11.3 Efficient Power Conversion Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
10.11.4 Efficient Power Conversion Corporation Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.11.5 Efficient Power Conversion Corporation Recent Developments/Updates
10.11.6 Efficient Power Conversion Corporation Competitive Strengths & Weaknesses
10.12 Silanna Semiconductor
10.12.1 Silanna Semiconductor Details
10.12.2 Silanna Semiconductor Major Business
10.12.3 Silanna Semiconductor Time-of-Flight Auto-Focus Driver IC Product and Services
10.12.4 Silanna Semiconductor Time-of-Flight Auto-Focus Driver IC Production, Price, Value, Gross Margin and Market Share (2021-2026)
10.12.5 Silanna Semiconductor Recent Developments/Updates
10.12.6 Silanna Semiconductor Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

11.1 Time-of-Flight Auto-Focus Driver IC Industry Chain
11.2 Time-of-Flight Auto-Focus Driver IC Upstream Analysis
11.2.1 Time-of-Flight Auto-Focus Driver IC Core Raw Materials

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11.2.2 Main Manufacturers of Time-of-Flight Auto-Focus Driver IC Core Raw Materials
11.3 Midstream Analysis
11.4 Downstream Analysis
11.5 Time-of-Flight Auto-Focus Driver IC Production Mode
11.6 Time-of-Flight Auto-Focus Driver IC Procurement Model
11.7 Time-of-Flight Auto-Focus Driver IC Industry Sales Model and Sales Channels
11.7.1 Time-of-Flight Auto-Focus Driver IC Sales Model
11.7.2 Time-of-Flight Auto-Focus Driver IC Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

13.1 Methodology
13.2 Research Process and Data Source
13.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World Time-of-Flight Auto-Focus Driver IC Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Time-of-Flight Auto-Focus Driver IC Production Value by Region (2021-2026) & (USD Million)
Table 3. World Time-of-Flight Auto-Focus Driver IC Production Value by Region (2027-2032) & (USD Million)
Table 4. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by Region (2021-2026)
Table 5. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by Region (2027-2032)
Table 6. World Time-of-Flight Auto-Focus Driver IC Production by Region (2021-2026) & (Million Units)
Table 7. World Time-of-Flight Auto-Focus Driver IC Production by Region (2027-2032) & (Million Units)
Table 8. World Time-of-Flight Auto-Focus Driver IC Production Market Share by Region (2021-2026)
Table 9. World Time-of-Flight Auto-Focus Driver IC Production Market Share by Region (2027-2032)
Table 10. World Time-of-Flight Auto-Focus Driver IC Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Time-of-Flight Auto-Focus Driver IC Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Time-of-Flight Auto-Focus Driver IC Major Market Trends
Table 13. World Time-of-Flight Auto-Focus Driver IC Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)
Table 14. World Time-of-Flight Auto-Focus Driver IC Consumption by Region (2021-2026) & (Million Units)
Table 15. World Time-of-Flight Auto-Focus Driver IC Consumption Forecast by Region (2027-2032) & (Million Units)
Table 16. World Time-of-Flight Auto-Focus Driver IC Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Time-of-Flight Auto-Focus Driver IC Producers in 2025
Table 18. World Time-of-Flight Auto-Focus Driver IC Production by Manufacturer (2021-2026) & (Million Units)

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Table 19. Production Market Share of Key Time-of-Flight Auto-Focus Driver IC Producers in 2025
Table 20. World Time-of-Flight Auto-Focus Driver IC Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global Time-of-Flight Auto-Focus Driver IC Company Evaluation Quadrant
Table 22. World Time-of-Flight Auto-Focus Driver IC Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Time-of-Flight Auto-Focus Driver IC Production Site of Key Manufacturer
Table 24. Time-of-Flight Auto-Focus Driver IC Market: Company Product Type Footprint
Table 25. Time-of-Flight Auto-Focus Driver IC Market: Company Product Application Footprint
Table 26. Time-of-Flight Auto-Focus Driver IC Competitive Factors
Table 27. Time-of-Flight Auto-Focus Driver IC New Entrant and Capacity Expansion Plans
Table 28. Time-of-Flight Auto-Focus Driver IC Mergers & Acquisitions Activity
Table 29. United States VS China Time-of-Flight Auto-Focus Driver IC Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Time-of-Flight Auto-Focus Driver IC Production Comparison, (2021 & 2025 & 2032) & (Million Units)
Table 31. United States VS China Time-of-Flight Auto-Focus Driver IC Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)
Table 32. United States Based Time-of-Flight Auto-Focus Driver IC Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production (2021-2026) & (Million Units)
Table 36. United States Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Market Share (2021-2026)
Table 37. China Based Time-of-Flight Auto-Focus Driver IC Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production,

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(2021-2026) & (Million Units)
Table 41. China Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Market Share (2021-2026)
Table 42. Rest of World Based Time-of-Flight Auto-Focus Driver IC Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production, (2021-2026) & (Million Units)
Table 46. Rest of World Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Market Share (2021-2026)
Table 47. World Time-of-Flight Auto-Focus Driver IC Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World Time-of-Flight Auto-Focus Driver IC Production by Type (2021-2026) & (Million Units)
Table 49. World Time-of-Flight Auto-Focus Driver IC Production by Type (2027-2032) & (Million Units)
Table 50. World Time-of-Flight Auto-Focus Driver IC Production Value by Type (2021-2026) & (USD Million)
Table 51. World Time-of-Flight Auto-Focus Driver IC Production Value by Type (2027-2032) & (USD Million)
Table 52. World Time-of-Flight Auto-Focus Driver IC Average Price by Type (2021-2026) & (US$/Unit)
Table 53. World Time-of-Flight Auto-Focus Driver IC Average Price by Type (2027-2032) & (US$/Unit)
Table 54. World Time-of-Flight Auto-Focus Driver IC Production Value by ToF Measurement Principle, (USD Million), 2021 & 2025 & 2032
Table 55. World Time-of-Flight Auto-Focus Driver IC Production by ToF Measurement Principle (2021-2026) & (Million Units)
Table 56. World Time-of-Flight Auto-Focus Driver IC Production by ToF Measurement Principle (2027-2032) & (Million Units)
Table 57. World Time-of-Flight Auto-Focus Driver IC Production Value by ToF Measurement Principle (2021-2026) & (USD Million)
Table 58. World Time-of-Flight Auto-Focus Driver IC Production Value by ToF Measurement Principle (2027-2032) & (USD Million)
Table 59. World Time-of-Flight Auto-Focus Driver IC Average Price by ToF Measurement Principle (2021-2026) & (US$/Unit)

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Table 60. World Time-of-Flight Auto-Focus Driver IC Average Price by ToF Measurement Principle (2027-2032) & (US$/Unit)
Table 61. World Time-of-Flight Auto-Focus Driver IC Production Value by Peak Output Current, (USD Million), 2021 & 2025 & 2032
Table 62. World Time-of-Flight Auto-Focus Driver IC Production by Peak Output Current (2021-2026) & (Million Units)
Table 63. World Time-of-Flight Auto-Focus Driver IC Production by Peak Output Current (2027-2032) & (Million Units)
Table 64. World Time-of-Flight Auto-Focus Driver IC Production Value by Peak Output Current (2021-2026) & (USD Million)
Table 65. World Time-of-Flight Auto-Focus Driver IC Production Value by Peak Output Current (2027-2032) & (USD Million)
Table 66. World Time-of-Flight Auto-Focus Driver IC Average Price by Peak Output Current (2021-2026) & (US$/Unit)
Table 67. World Time-of-Flight Auto-Focus Driver IC Average Price by Peak Output Current (2027-2032) & (US$/Unit)
Table 68. World Time-of-Flight Auto-Focus Driver IC Production Value by Drive Waveform, (USD Million), 2021 & 2025 & 2032
Table 69. World Time-of-Flight Auto-Focus Driver IC Production by Drive Waveform (2021-2026) & (Million Units)
Table 70. World Time-of-Flight Auto-Focus Driver IC Production by Drive Waveform (2027-2032) & (Million Units)
Table 71. World Time-of-Flight Auto-Focus Driver IC Production Value by Drive Waveform (2021-2026) & (USD Million)
Table 72. World Time-of-Flight Auto-Focus Driver IC Production Value by Drive Waveform (2027-2032) & (USD Million)
Table 73. World Time-of-Flight Auto-Focus Driver IC Average Price by Drive Waveform (2021-2026) & (US$/Unit)
Table 74. World Time-of-Flight Auto-Focus Driver IC Average Price by Drive Waveform (2027-2032) & (US$/Unit)
Table 75. World Time-of-Flight Auto-Focus Driver IC Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 76. World Time-of-Flight Auto-Focus Driver IC Production by Application (2021-2026) & (Million Units)
Table 77. World Time-of-Flight Auto-Focus Driver IC Production by Application (2027-2032) & (Million Units)
Table 78. World Time-of-Flight Auto-Focus Driver IC Production Value by Application (2021-2026) & (USD Million)
Table 79. World Time-of-Flight Auto-Focus Driver IC Production Value by Application

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(2027-2032) & (USD Million)
Table 80. World Time-of-Flight Auto-Focus Driver IC Average Price by Application (2021-2026) & (US$/Unit)
Table 81. World Time-of-Flight Auto-Focus Driver IC Average Price by Application (2027-2032) & (US$/Unit)
Table 82. Sony Group Corporation Basic Information, Manufacturing Base and Competitors
Table 83. Sony Group Corporation Major Business
Table 84. Sony Group Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
Table 85. Sony Group Corporation Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 86. Sony Group Corporation Recent Developments/Updates
Table 87. Sony Group Corporation Competitive Strengths & Weaknesses
Table 88. Texas Instruments Incorporated Basic Information, Manufacturing Base and Competitors
Table 89. Texas Instruments Incorporated Major Business
Table 90. Texas Instruments Incorporated Time-of-Flight Auto-Focus Driver IC Product and Services
Table 91. Texas Instruments Incorporated Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 92. Texas Instruments Incorporated Recent Developments/Updates
Table 93. Texas Instruments Incorporated Competitive Strengths & Weaknesses
Table 94. Infineon Technologies AG Basic Information, Manufacturing Base and Competitors
Table 95. Infineon Technologies AG Major Business
Table 96. Infineon Technologies AG Time-of-Flight Auto-Focus Driver IC Product and Services
Table 97. Infineon Technologies AG Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 98. Infineon Technologies AG Recent Developments/Updates
Table 99. Infineon Technologies AG Competitive Strengths & Weaknesses
Table 100. Asahi Kasei Corporation Basic Information, Manufacturing Base and Competitors
Table 101. Asahi Kasei Corporation Major Business
Table 102. Asahi Kasei Corporation Time-of-Flight Auto-Focus Driver IC Product and

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Services
Table 103. Asahi Kasei Corporation Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 104. Asahi Kasei Corporation Recent Developments/Updates
Table 105. Asahi Kasei Corporation Competitive Strengths & Weaknesses
Table 106. Shenzhen Goodix Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 107. Shenzhen Goodix Technology Co., Ltd. Major Business
Table 108. Shenzhen Goodix Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
Table 109. Shenzhen Goodix Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 110. Shenzhen Goodix Technology Co., Ltd. Recent Developments/Updates
Table 111. Shenzhen Goodix Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 112. Shanghai Awinic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 113. Shanghai Awinic Technology Co., Ltd. Major Business
Table 114. Shanghai Awinic Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
Table 115. Shanghai Awinic Technology Co., Ltd. Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 116. Shanghai Awinic Technology Co., Ltd. Recent Developments/Updates
Table 117. Shanghai Awinic Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 118. Wuxi ETEK Micro-Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 119. Wuxi ETEK Micro-Electronics Co., Ltd. Major Business
Table 120. Wuxi ETEK Micro-Electronics Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
Table 121. Wuxi ETEK Micro-Electronics Co., Ltd. Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 122. Wuxi ETEK Micro-Electronics Co., Ltd. Recent Developments/Updates
Table 123. Wuxi ETEK Micro-Electronics Co., Ltd. Competitive Strengths & Weaknesses
Table 124. iC-Haus GmbH Basic Information, Manufacturing Base and Competitors

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Table 125. iC-Haus GmbH Major Business
Table 126. iC-Haus GmbH Time-of-Flight Auto-Focus Driver IC Product and Services
Table 127. iC-Haus GmbH Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 128. iC-Haus GmbH Recent Developments/Updates
Table 129. iC-Haus GmbH Competitive Strengths & Weaknesses
Table 130. DONGWOON ANATECH Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 131. DONGWOON ANATECH Co., Ltd. Major Business
Table 132. DONGWOON ANATECH Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
Table 133. DONGWOON ANATECH Co., Ltd. Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 134. DONGWOON ANATECH Co., Ltd. Recent Developments/Updates
Table 135. DONGWOON ANATECH Co., Ltd. Competitive Strengths & Weaknesses
Table 136. Photonic Tech (Shanghai) Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 137. Photonic Tech (Shanghai) Co., Ltd. Major Business
Table 138. Photonic Tech (Shanghai) Co., Ltd. Time-of-Flight Auto-Focus Driver IC Product and Services
Table 139. Photonic Tech (Shanghai) Co., Ltd. Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 140. Photonic Tech (Shanghai) Co., Ltd. Recent Developments/Updates
Table 141. Photonic Tech (Shanghai) Co., Ltd. Competitive Strengths & Weaknesses
Table 142. Efficient Power Conversion Corporation Basic Information, Manufacturing Base and Competitors
Table 143. Efficient Power Conversion Corporation Major Business
Table 144. Efficient Power Conversion Corporation Time-of-Flight Auto-Focus Driver IC Product and Services
Table 145. Efficient Power Conversion Corporation Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 146. Efficient Power Conversion Corporation Recent Developments/Updates
Table 147. Efficient Power Conversion Corporation Competitive Strengths & Weaknesses
Table 148. Silanna Semiconductor Basic Information, Manufacturing Base and

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Competitors
Table 149. Silanna Semiconductor Major Business
Table 150. Silanna Semiconductor Time-of-Flight Auto-Focus Driver IC Product and Services
Table 151. Silanna Semiconductor Time-of-Flight Auto-Focus Driver IC Production (Million Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 152. Silanna Semiconductor Recent Developments/Updates
Table 153. Silanna Semiconductor Competitive Strengths & Weaknesses
Table 154. Global Key Players of Time-of-Flight Auto-Focus Driver IC Upstream (Raw Materials)
Table 155. Global Time-of-Flight Auto-Focus Driver IC Typical Customers
Table 156. Time-of-Flight Auto-Focus Driver IC Typical Distributors

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List Of Figures

LIST OF FIGURES

Figure 1. Time-of-Flight Auto-Focus Driver IC Picture
Figure 2. World Time-of-Flight Auto-Focus Driver IC Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Time-of-Flight Auto-Focus Driver IC Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Time-of-Flight Auto-Focus Driver IC Production (2021-2032) & (Million Units)
Figure 5. World Time-of-Flight Auto-Focus Driver IC Average Price (2021-2032) & (US$/Unit)
Figure 6. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by Region (2021-2032)
Figure 7. World Time-of-Flight Auto-Focus Driver IC Production Market Share by Region (2021-2032)
Figure 8. China Time-of-Flight Auto-Focus Driver IC Production (2021-2032) & (Million Units)
Figure 9. Japan Time-of-Flight Auto-Focus Driver IC Production (2021-2032) & (Million Units)
Figure 10. South Korea Time-of-Flight Auto-Focus Driver IC Production (2021-2032) & (Million Units)
Figure 11. Europe Time-of-Flight Auto-Focus Driver IC Production (2021-2032) & (Million Units)
Figure 12. North America Time-of-Flight Auto-Focus Driver IC Production (2021-2032) & (Million Units)
Figure 13. Time-of-Flight Auto-Focus Driver IC Market Drivers
Figure 14. Factors Affecting Demand
Figure 15. World Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032) & (Million Units)
Figure 16. World Time-of-Flight Auto-Focus Driver IC Consumption Market Share by Region (2021-2032)
Figure 17. United States Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032) & (Million Units)
Figure 18. China Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032) & (Million Units)
Figure 19. Europe Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032) & (Million Units)

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Figure 20. Japan Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032) & (Million Units)
Figure 21. South Korea Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032) & (Million Units)
Figure 22. ASEAN Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032) & (Million Units)
Figure 23. India Time-of-Flight Auto-Focus Driver IC Consumption (2021-2032) & (Million Units)
Figure 24. Producer Shipments of Time-of-Flight Auto-Focus Driver IC by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 25. Global Four-firm Concentration Ratios (CR4) for Time-of-Flight Auto-Focus Driver IC Markets in 2025
Figure 26. Global Four-firm Concentration Ratios (CR8) for Time-of-Flight Auto-Focus Driver IC Markets in 2025
Figure 27. United States VS China: Time-of-Flight Auto-Focus Driver IC Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Time-of-Flight Auto-Focus Driver IC Production Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States VS China: Time-of-Flight Auto-Focus Driver IC Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 30. United States Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Market Share 2025
Figure 31. China Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Market Share 2025
Figure 32. Rest of World Based Manufacturers Time-of-Flight Auto-Focus Driver IC Production Market Share 2025
Figure 33. World Time-of-Flight Auto-Focus Driver IC Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 34. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by Type in 2025
Figure 35. Standalone ToF Driver IC
Figure 36. ToF AFE with Integrated Driver
Figure 37. Other
Figure 38. World Time-of-Flight Auto-Focus Driver IC Production Market Share by Type (2021-2032)
Figure 39. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by Type (2021-2032)
Figure 40. World Time-of-Flight Auto-Focus Driver IC Average Price by Type (2021-2032) & (US$/Unit)

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Figure 41. World Time-of-Flight Auto-Focus Driver IC Production Value by ToF Measurement Principle, (USD Million), 2021 & 2025 & 2032
Figure 42. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by ToF Measurement Principle in 2025
Figure 43. Indirect Time-of-Flight Driver
Figure 44. Direct Time-of-Flight Driver
Figure 45. Multi-Mode ToF Driver
Figure 46. Other
Figure 47. World Time-of-Flight Auto-Focus Driver IC Production Market Share by ToF Measurement Principle (2021-2032)
Figure 48. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by ToF Measurement Principle (2021-2032)
Figure 49. World Time-of-Flight Auto-Focus Driver IC Average Price by ToF Measurement Principle (2021-2032) & (US$/Unit)
Figure 50. World Time-of-Flight Auto-Focus Driver IC Production Value by Peak Output Current, (USD Million), 2021 & 2025 & 2032
Figure 51. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by Peak Output Current in 2025
Figure 52. Up to 1 A
Figure 53. Above 1 A to 4 A
Figure 54. Above 4 A to 10 A
Figure 55. Above 10 A
Figure 56. World Time-of-Flight Auto-Focus Driver IC Production Market Share by Peak Output Current (2021-2032)
Figure 57. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by Peak Output Current (2021-2032)
Figure 58. World Time-of-Flight Auto-Focus Driver IC Average Price by Peak Output Current (2021-2032) & (US$/Unit)
Figure 59. World Time-of-Flight Auto-Focus Driver IC Production Value by Drive Waveform, (USD Million), 2021 & 2025 & 2032
Figure 60. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by Drive Waveform in 2025
Figure 61. Continuous-Wave Modulation Driver
Figure 62. Nanosecond Pulse Driver
Figure 63. Sub-Nanosecond Pulse Driver
Figure 64. Other
Figure 65. World Time-of-Flight Auto-Focus Driver IC Production Market Share by Drive Waveform (2021-2032)
Figure 66. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by

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Drive Waveform (2021-2032)
Figure 67. World Time-of-Flight Auto-Focus Driver IC Average Price by Drive Waveform (2021-2032) & (US$/Unit)
Figure 68. World Time-of-Flight Auto-Focus Driver IC Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 69. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by Application in 2025
Figure 70. Consumer 3D Sensing
Figure 71. Projection Auto Focus and Optical Alignment
Figure 72. Smart Access and Presence Sensing
Figure 73. Robotics and Industrial Ranging
Figure 74. Automotive In-Cabin and Short-Range Sensing
Figure 75. Short-Range LiDAR
Figure 76. Other
Figure 77. World Time-of-Flight Auto-Focus Driver IC Production Market Share by Application (2021-2032)
Figure 78. World Time-of-Flight Auto-Focus Driver IC Production Value Market Share by Application (2021-2032)
Figure 79. World Time-of-Flight Auto-Focus Driver IC Average Price by Application (2021-2032) & (US$/Unit)
Figure 80. Time-of-Flight Auto-Focus Driver IC Industry Chain
Figure 81. Time-of-Flight Auto-Focus Driver IC Procurement Model
Figure 82. Time-of-Flight Auto-Focus Driver IC Sales Model
Figure 83. Time-of-Flight Auto-Focus Driver IC Sales Channels, Direct Sales, and Distribution
Figure 84. Methodology
Figure 85. Research Process and Data Source

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