

# **Clutch Brake Market Size, Trends, Analysis, and Outlook by Application (Passenger vehicle, Commercial vehicle), Clutch, Friction Clutch, Dog Clutch, Cone Cutch, Overrunning Clutch, Safety Clutch, Centrifugal clutch, Hydraulic Clutch, Electromagnetic Clutch), Transmission (Manual, Automated, Continuously variable), Brake (Frictional break, Pumping break, Electromagnetic break), Component (Reservoir, Hose, Master cylinder, Slave cylinder), by Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Automotive Imaging market size is poised to register 10.04% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The study analyzes the global Automotive Imaging market by Type (CMOS Image Sensors, Camera Modules, Vision Processors, LiDAR, Radar), Application (Driver Monitoring, Gesture Recognition, Rear View, 360 Degree Surround, Side Mirror Replacement, Forward ADAS Mono, Night Vision, Dash Camera ), Imaging (Rear View Camera (RVC), Surround View System (SVS), Camera Monitor System (CMS), FVMV, DMS/IMS).

The Automotive Imaging Market is on the brink of transformative growth and innovation leading up, driven by a confluence of technological advancements, safety imperatives, and evolving consumer expectations. As vehicles become more connected and autonomous, there's a surging demand for advanced imaging solutions that enable enhanced perception, detection, and recognition capabilities. Trends such as the rise of

electric vehicles, augmented reality displays, and vehicle-to-everything (V2X) communication are reshaping the requirements for automotive imaging, driving the need for solutions that offer high-resolution, low-latency imaging with robust reliability. In addition, stringent safety regulations and the push toward zero-accident goals are supporting the adoption of imaging systems that facilitate advanced driver-assistance features and autonomous driving functionalities. Further, as consumers increasingly prioritize convenience and safety in vehicles, there's a growing emphasis on imaging solutions that provide comprehensive coverage around the vehicle, including blind spot detection, parking assistance, and pedestrian detection. With automotive OEMs and technology providers focusing on innovation and differentiation, coupled with the industry's move toward electrification and autonomy, the Automotive Imaging Market is poised for sustained growth and advancement, shaping the future of automotive safety and mobility..

**Automotive Imaging Market Drivers, Trends, Opportunities, and Growth Opportunities**  
This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Automotive Imaging market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Automotive Imaging survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Automotive Imaging industry.

**Key market trends defining the global Automotive Imaging demand in 2024 and Beyond**  
The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

**Automotive Imaging Market Segmentation- Industry Share, Market Size, and Outlook to 2030**

The Automotive Imaging industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Automotive Imaging companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Automotive Imaging industry  
Leading Automotive Imaging companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Automotive Imaging companies.

#### Automotive Imaging Market Study- Strategic Analysis Review

The Automotive Imaging market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis.

Explore potential market disruptions, technology advancements, and economic changes.

#### Automotive Imaging Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Automotive Imaging industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

#### Automotive Imaging Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

#### North America Automotive Imaging Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in

2024), potentially driving demand for various Automotive Imaging market segments. Similarly, Strong end-user demand is encouraging Canadian Automotive Imaging companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Automotive Imaging market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

**Europe Automotive Imaging Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities**

The German industry remains the major market for companies in the European Automotive Imaging industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Automotive Imaging market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

**Asia Pacific Automotive Imaging Market Size Outlook- an attractive hub for opportunities for both local and global companies**

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Automotive Imaging in Asia Pacific. In particular, China, India, and South East Asian Automotive Imaging markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

**Latin America Automotive Imaging Market Size Outlook- Continued urbanization and rising income levels**

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Automotive Imaging Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Automotive Imaging market potential. Fueled by increasing consumption expenditure, growing population, and high demand across a few markets drives the demand for Automotive Imaging.

#### Automotive Imaging Market Company Profiles

The global Automotive Imaging market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Aptiv PLC, Continental AG, Denso Corp, Hella GmbH & Co. KGaA, Ibeo Automotive Systems GmbH, Innoviz Technologies Ltd, Kostal Group, Luminar Technologies Inc, Magna International Inc, OmniVision Technologies Inc, ON Semiconductor Corp, Panasonic Corp, Pixelplus Co. Ltd, Robert Bosch GmbH, Samsung Electronics Co. Ltd, Sony Group Corp, STMicroelectronics N.V., Valeo SA, Velodyne Lidar Inc, Veoneer Inc, ZF Friedrichshafen AG.

#### Recent Automotive Imaging Market Developments

The global Automotive Imaging market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

#### Automotive Imaging Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

**Market Segmentation:**

Type

CMOS Image Sensors

Camera Modules

Vision Processors

LiDAR

Radar

Application

Driver Monitoring

Gesture Recognition

Rear View

360 Degree Surround

Side Mirror Replacement

Forward ADAS Mono

Night Vision

Dash Camera

Imaging

Rear View Camera (RVC)

Surround View System (SVS)

Camera Monitor System (CMS)

FVMV

DMS/IMS

**Geographical Segmentation:**

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

**Companies**

Aptiv PLC

Continental AG

Denso Corp

Hella GmbH &amp; Co. KGaA

Ibeo Automotive Systems GmbH

Innoviz Technologies Ltd

Kostal Group

Luminar Technologies Inc

Magna International Inc  
OmniVision Technologies Inc  
ON Semiconductor Corp  
Panasonic Corp  
Pixelplus Co. Ltd  
Robert Bosch GmbH  
Samsung Electronics Co. Ltd  
Sony Group Corp  
STMicroelectronics N.V.  
Valeo SA  
Velodyne Lidar Inc  
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ZF Friedrichshafen AG.  
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Friction Clutch  
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Safety Clutch  
Centrifugal clutch  
Hydraulic Clutch  
Electromagnetic Clutch  
Transmission  
Manual  
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