

Automotive Digital Instrument Cluster Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 100 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

Report description:

The automotive digital instrument cluster market was valued at USD 2.76 Billion in 2021 and is estimated to surpass net valuation of USD 4.62 Billion by 2027 registering a CAGR of over 8% during the forecast period 2022-2027.

The digital instrument cluster has become smarter, as it comes with various driving modes; instrument clusters change according to the driving modes. As the overall display system of the vehicle is evolving with the introduction of multiple display systems, the cost of the instrument cluster is expected to decrease in the future.

Instrument clusters in vehicles are growing rapidly. The new instrument clusters are larger and come with higher resolution. They have evolved from large mechanical displays to electromechanical and now to completely digital displays.

The automotive industry has entered the era of autonomous vehicles and ADAS. Growing production of vehicles with integrated ADAS features in wake of rising awareness toward comfort and safety of passengers and government regulations mandating safety features expected to drive demand in the market. In addition, which can be reconfigured based on context and driver preferences while displaying the required information to ensure a safe driving experience. ?

Although, the COVID-19 pandemic has decreased the consumer purchasing power, contributed to a significant drop in oil prices, and consequently lowered gasoline prices. For traditional vehicles with internal combustion engines (ICEs), the drop in gasoline prices may decrease the total cost of ownership. Although EVs may still have lower total costs of ownership than traditional ICE vehicles in most segments, the advantages may not be as great and that may influence the sales. The impact on supply chain and deliveries has affected many vehicle manufacturers across the world, as they depend on suppliers for the parts. The outbreak has resulted in delays in customer and partner deliveries. Thus during the period there has been low production volumes and thus

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

installation of digital instrument clustered felled marginally.

Although soon after, Q2 2021, market regain its growth phase as automotive production again started across the globe. Considering the aforementioned factors, market is expected to witness higher revenue growth capacity during the forecast period.

Automotive Digital Instrument Cluster Market Trends

3D Cockpit Expected to be the Future of the Automotive Digital Instrument Cluster Market

Leading automotive digital instrument cluster manufacturers are developing new technologies to make the driver experience safer and more informative.

The 3D instrument cluster displays 3D images without requiring any specific 3D glasses. In addition, The 3D instrument cluster system uses advanced camera technology to monitor the driver's line of sight and further help him display three-dimensional scales, objects, and pointers.

This 3D instrument cluster shall help advance the vehicles and drivers' safe during vehicle dynamics by creating a whole new level of human-machine interaction. This cluster can also work as an infotainment system for showcasing HD movies during standalone vehicle time.

Display manufacturers are increasing the depth of the image in digital clusters, enabling 3-D effects for a more interactive experience. For instance,

Genesis launched its 2022 G70 equipped with a 12.3-inch digital instrument cluster placed on the driver's front side, giving a unique 3D effect.

Continental AG has developed an innovative natural 3D light field instrument cluster for Genesis GV80; as the name suggests, it brings the third dimension into upcoming vehicles' displays. The new technology will make the driver experience safer, more comfortable, and intuitive.

Visteon Corporation launched the digital instrument cluster for PEUGEOT 208. PEUGEOT's unique 3D i-Cockpit comes equipped with two TFTs, which provide graphical content with 3D animations and content on both screens.

Asia-Pacific the Fastest Growing Market

The Asia-Pacific region is the largest automobile producer in the world. China, India, and Japan are the major economies in the regional market that are anticipated to grow faster in the global market. Automobiles have an increasing demand for enhanced safety, comfort, and convenience features. OEMs are increasingly introducing advanced infotainment systems, telematics, gesture control systems, and central vehicle controllers.

COVID occurred in China has increasing created difficulty for market participants and put downward pressure on the Chinese economy. The automotive industry and supply chain also underwent the most demanding tests in history. In addition, some key automakers stopped production and had major logistics obstacles leading to the collapse of delivery capacity. Furthermore, the COVID pandemic significantly reduced the overall purchasing power and consumer confidence. Although the recovery has been followed with time, the market is still facing challenges due to the pandemic.

In April 2022, Chinese passenger car production reached 996,000 units, with sales registering 965,000 units. This accounts for the

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

downfall of 41.9% and 43.4% respectively in production and sales compared to the previous year. In 2022, from January to April, passenger car production decreased by 2.6% year-on-year, registering 6,494 million units.

The automotive digital instrument cluster manufacturers are partnering with other market participants to develop next-generation smart instrument clusters for their future vehicles. For instance,

DENSO Corporation announced that it is developing next-generation cockpit systems in a joint effort with Qualcomm Technologies Inc. The company's primary focus is to enhance Harmony Core 4 integrated cockpit system, which can coordinate with external cloud services and new HMI products.

Panasonic developed an advanced cockpit concept, which features multiple displays and touchless operations. The innovative electronic cockpit solution combines the digital instrument cluster with other shows to use HMI continuously.

Automotive Digital Instrument Cluster Market Competitor Analysis

The automotive digital instrument cluster market is consolidated and dominated by a few players, such as Robert Bosch GmbH, Visteon Corporation, and Continental AG. The market is significantly driven by factors like advanced technology, more use of sensors, growing investment in R&D projects, and the increasing demand for electric and autonomous vehicles. To provide more information to the driver of the significant automotive digital instruments, cluster manufacturers are developing new technology for the future and expanding their market reach. For instance,

In November 2021, Robert Bosch GmbH (Bosch) announced its Engineering Centre in Sofia. The Bosch Engineering Centre Sofia is developing technologies for vehicle electrification, connectivity solutions, displays, instrument clusters, and driver monitoring systems.

In January 2021, Continental collaborated with Leia Inc. to develop a new 3D display based on natural 3D Lightfield Technology. This technology saves weight and space, reduces costs, and displays all digital services to all the passengers in a connected car. The innovative system is planned for production by 2022 end.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

Table of Contents:

1 INTRODUCTION

1.1 Study Assumptions

1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET DYNAMICS

4.1 Market Drivers

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 4.2 Market Restraints
- 4.3 Industry Attractiveness - Porter's Five Forces Analysis
 - 4.3.1 Threat of New Entrants
 - 4.3.2 Bargaining Power of Buyers/Consumers
 - 4.3.3 Bargaining Power of Suppliers
 - 4.3.4 Threat of Substitute Products
 - 4.3.5 Intensity of Competitive Rivalry

5 MARKET SEGMENTATION (Market Size in Value USD Million)

- 5.1 By Vehicle Type
 - 5.1.1 Passenger Cars
 - 5.1.2 Commercial Vehicles
- 5.2 By Electric Vehicle Type
 - 5.2.1 BEV
 - 5.2.2 PHEV
 - 5.2.3 Other Electric Vehicle Types
- 5.3 By Display Type
 - 5.3.1 LCD
 - 5.3.2 TFT-LCD
 - 5.3.3 OLED
- 5.4 By Display Size Type
 - 5.4.1 5-8-inch
 - 5.4.2 9-11 inch
 - 5.4.3 More than 12 inch
- 5.5 By Geography
 - 5.5.1 North America
 - 5.5.1.1 United States
 - 5.5.1.2 Canada
 - 5.5.1.3 Rest of North America
 - 5.5.2 Europe
 - 5.5.2.1 Germany
 - 5.5.2.2 United Kingdom
 - 5.5.2.3 France
 - 5.5.2.4 Rest of Europe
 - 5.5.3 Asia-Pacific
 - 5.5.3.1 India
 - 5.5.3.2 China
 - 5.5.3.3 Japan
 - 5.5.3.4 South Korea
 - 5.5.3.5 Rest of Asia-Pacific
 - 5.5.4 Rest of the World
 - 5.5.4.1 Brazil
 - 5.5.4.2 Mexico
 - 5.5.4.3 United Arab Emirates
 - 5.5.4.4 Other Countries

6 COMPETITIVE LANDSCAPE

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 6.1 Vendor Market Share
- 6.2 Company Profiles
 - 6.2.1 Visteon Corporation
 - 6.2.2 Robert Bosch GmbH
 - 6.2.3 Spark Minda
 - 6.2.4 Continental AG
 - 6.2.5 Denso Corporation
 - 6.2.6 Panasonic Corporation
 - 6.2.7 Nippon Seiki Co. Ltd
 - 6.2.8 IAC Group
 - 6.2.9 Magneti Marelli SpA
 - 6.2.10 Yazaki Corporation

7 MARKET OPPORTUNITIES AND FUTURE TRENDS

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Automotive Digital Instrument Cluster Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 100 pages | Mordor Intelligence

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	
Address*		City*	
Zip Code*		Country*	
		Date	2026-03-02
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com
www.scotts-international.com