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Global Intelligent Connected Instrumentation for Two-wheelers 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 Intelligent Connected Instrumentation for Two-wheelers market size was valued at US$ 442 million in 2025 and is forecast to a readjusted size of US$ 710 million by 2032 with a CAGR of 6.9% during review period.

Intelligent Connected Instrumentation for Two-wheelers refers to an advanced human-machine interface (HMI) system that integrates digital display technologies with vehicle connectivity capabilities, designed for motorcycles, electric two-wheelers, and scooters. By incorporating communication modules such as Bluetooth, Wi-Fi, or cellular connectivity along with embedded software platforms, it enables real-time vehicle data visualization, navigation display, smartphone integration, remote diagnostics, and over-the-air (OTA) updates, addressing the limitations of traditional standalone dashboards that lack connectivity and functionality. The product has evolved from basic digital instrument clusters to fully connected smart terminals driven by the proliferation of smartphones and IoT technologies, becoming a key component of vehicle intelligence and user experience differentiation. From a supply chain perspective, upstream components include display panels, microcontrollers or system-on-chip processors, connectivity modules, GNSS positioning units, memory devices, power management ICs, and various sensors, supported by materials such as PCBs, glass substrates, and electronic packaging materials, which are then integrated into complete systems for OEM deployment.In 2025, the global production capacity of Intelligent Connected Instrumentation for Two-wheelers reached 20 million units, with sales volume totaling 16.52 million units. The average unit price was USD 26 per unit, and the gross profit margin of enterprises ranged between 20% and 30%.

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The market for intelligent connected instrumentation in two-wheelers is currently transitioning from feature expansion to ecosystem integration, driven by the rapid growth of electric two-wheelers and rising consumer expectations for smart experiences. With the widespread adoption of smartphone ecosystems, users increasingly demand functions such as navigation, data synchronization, and remote control, pushing instrument systems to evolve into central information hubs within the vehicle. OEMs are leveraging these systems as key differentiation tools to enhance brand value and extend digital services, strengthening user engagement. While adoption is accelerating in mid-to-high-end models and gradually penetrating lower segments, the overall market is still in a growth phase with notable variations across regions and price tiers.

Looking ahead, future development will focus on deeper connectivity integration and software-defined capabilities, positioning intelligent connected instrumentation as a core node within the vehicle?s electronic architecture. Advances in communication technologies and cloud platforms will enable tighter integration between vehicles, smartphones, and backend systems, supporting a broader range of applications such as real-time navigation optimization, remote diagnostics, OTA updates, and personalized user interfaces. At the same time, platform-based software architectures and modular hardware designs will become increasingly important to improve scalability and reduce development costs. Human-machine interaction will also continue to evolve toward multi-modal approaches, including touch, voice, and hybrid control systems, enhancing usability while maintaining riding safety.

However, several challenges remain. Cost sensitivity continues to be a major constraint, particularly in entry-level segments where the addition of connectivity features can significantly increase system costs. Issues related to connectivity reliability, cross-platform compatibility, and cybersecurity are becoming more prominent, as the lack of unified standards adds complexity to development and maintenance. Furthermore, uncertainties in the supply of key components such as semiconductors and communication modules, along with stringent reliability requirements under harsh operating conditions, increase technical barriers. Despite these challenges, long-term growth prospects remain strong, supported by ongoing electrification and the broader shift toward intelligent and connected mobility.

This report is a detailed and comprehensive analysis for global Intelligent Connected Instrumentation for Two-wheelers 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

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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 Intelligent Connected Instrumentation for Two-wheelers market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Intelligent Connected Instrumentation for Two-wheelers market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Intelligent Connected Instrumentation for Two-wheelers market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Intelligent Connected Instrumentation for Two-wheelers market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Intelligent Connected Instrumentation for Two-wheelers

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 Intelligent Connected Instrumentation for Two-wheelers 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 Nippon Seiki, Continental, Bosch, Edomtech, Zhejiang Nushine Technology, Wuhan Blue Star

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Technology, ThinkerRide, Denso, Nuvoton Technology, Visteon, etc.

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

Market Segmentation

Intelligent Connected Instrumentation for Two-wheelers market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

LCD Clusters

TFT Clusters

Hybrid Display Clusters

Market segment by Control Method

Button-controlled Cluster

Touch-controlled Cluster

Joystick-controlled Cluster

Market segment by Display Size

Small Size Instrument Cluster (Below 5 Inch)

Medium Size Instrument Cluster (5?7 Inch)

Large Size Instrument Cluster (7?9 Inch)

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Market segment by Application

- Electric Vehicle
- Motorcycle
- Others

Major players covered

- Nippon Seiki
- Continental
- Bosch
- Edomtech
- Zhejiang Nushine Technology
- Wuhan Blue Star Technology
- ThinkerRide
- Denso
- Nuvoton Technology
- Visteon
- Marelli
- Aim Technologies
- Winstar
- Weisen Instrument

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Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Intelligent Connected Instrumentation for Two-wheelers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Intelligent Connected Instrumentation for Two-wheelers, with price, sales quantity, revenue, and global market share of Intelligent Connected Instrumentation for Two-wheelers from 2021 to 2026.

Chapter 3, the Intelligent Connected Instrumentation for Two-wheelers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Intelligent Connected Instrumentation for Two-wheelers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021

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to 2026.and Intelligent Connected Instrumentation for Two-wheelers 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 Intelligent Connected Instrumentation for Two-wheelers.

Chapter 14 and 15, to describe Intelligent Connected Instrumentation for Two-wheelers sales channel, distributors, customers, research findings and conclusion.

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