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Global Intelligent Connected Instrumentation for Two-wheelers Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Intelligent Connected Instrumentation for Two-wheelers market size is expected to reach $ 710 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

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%.

The market for intelligent connected instrumentation in two-wheelers is currently

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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 studies the global Intelligent Connected Instrumentation for Two-wheelers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Intelligent Connected Instrumentation for Two-wheelers and provides market size (US$ million)

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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 Intelligent Connected Instrumentation for Two-wheelers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Intelligent Connected Instrumentation for Two-wheelers total production and demand, 2021-2032, (K Units)
Global Intelligent Connected Instrumentation for Two-wheelers total production value, 2021-2032, (USD Million)
Global Intelligent Connected Instrumentation for Two-wheelers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Intelligent Connected Instrumentation for Two-wheelers consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Intelligent Connected Instrumentation for Two-wheelers domestic production, consumption, key domestic manufacturers and share
Global Intelligent Connected Instrumentation for Two-wheelers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Intelligent Connected Instrumentation for Two-wheelers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Intelligent Connected Instrumentation for Two-wheelers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Intelligent Connected Instrumentation for Two-wheelers 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 Nippon Seiki, Continental, Bosch, Edomtech, Zhejiang Nushine Technology, Wuhan Blue Star Technology, ThinkerRide, Denso, Nuvoton Technology, Visteon, 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 Intelligent Connected Instrumentation for Two-wheelers market

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Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K 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 Intelligent Connected Instrumentation for Two-wheelers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Intelligent Connected Instrumentation for Two-wheelers Market, Segmentation by Type:

LCD Clusters

TFT Clusters

Hybrid Display Clusters

Global Intelligent Connected Instrumentation for Two-wheelers Market, Segmentation by Control Method:

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Button-controlled Cluster

Touch-controlled Cluster

Joystick-controlled Cluster

Global Intelligent Connected Instrumentation for Two-wheelers Market, Segmentation by Display Size:

Small Size Instrument Cluster (Below 5 Inch)

Medium Size Instrument Cluster (5?7 Inch)

Large Size Instrument Cluster (7?9 Inch)

Global Intelligent Connected Instrumentation for Two-wheelers Market, Segmentation by Application:

Electric Vehicle

Motorcycle

Others

Companies Profiled:

Nippon Seiki

Continental

Bosch

Edomtech

Zhejiang Nushine Technology

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Wuhan Blue Star Technology

ThinkerRide

Denso

Nuvoton Technology

Visteon

Marelli

Aim Technologies

Winstar

Weisen Instrument

Pricol

Key Questions Answered:

1. How big is the global Intelligent Connected Instrumentation for Two-wheelers market?
2. What is the demand of the global Intelligent Connected Instrumentation for Two-wheelers market?
3. What is the year over year growth of the global Intelligent Connected Instrumentation for Two-wheelers market?
4. What is the production and production value of the global Intelligent Connected Instrumentation for Two-wheelers market?
5. Who are the key producers in the global Intelligent Connected Instrumentation for Two-wheelers market?
6. What are the growth factors driving the market demand?

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