

Oscilloscope Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global oscilloscope market size reached US\$ 2.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 2.9 Billion by 2028, exhibiting a growth rate (CAGR) of 4.71% during 2022-2028.

Oscilloscopes are electronic test instruments that graphically display varying signal voltages and monitor their change over time with sensors. They are used to design, manufacture, and repair electronic equipment. They are also utilized for advanced analysis, digital debugging of intermittent signals, communication mask testing, and repetitive digital design and timing applications. Their digital variants with modern liquid crystal display (LCD) are nowadays widely available, which enable detailed signal measurement, fast calculations, data storage, and automated analysis. At present, manufacturers are developing handheld instruments that are battery-powered, rely on electrically isolated floating inputs and offer the advantage of embedded features.

Oscilloscope Market Trends:

Healthcare professionals use oscilloscopes for diagnostic approaches, such as monitoring the patients' heartbeat and brain waves. This, in confluence with the rising prevalence of acute and chronic disorders and improving diagnostic modalities, represents one of the key factors contributing to market growth. Apart from this, the growing emphasis on driver safety and the increasing preference for a comfortable and safe riding experience are positively influencing the adoption of connected motorcycles for advanced assistance features. This, in turn, is increasing the utilization of oscilloscopes in the automotive industry as they help troubleshoot inconsistencies and potential problems in the communication data stream, ignition system, solenoids, sensors, and actuators. Moreover, rising cybersecurity concerns are expanding the

application of oscilloscopes in the aerospace and defense industries to achieve fast and accurate measurements. They can also perform regular and consistent validation and determine whether a malfunctioning instrument is distorting a vital signal. Furthermore, the escalating demand for consumer electronics is also contributing to their overall sales to measure waveforms in devices like computers, radio, and television.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global oscilloscope market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, bandwidth, probe type and end user.

Breakup by Type:

- Analog
- Digital
- PC based

Breakup by Bandwidth:

- Less than 1Gz
- 1.1Gz to 8Gz
- 8.1Gz to 32Gz
- Others

Breakup by Probe Type:

- Active Oscilloscope Probe
- Passive Oscilloscope Probe
- Current Probes

Breakup by End User:

- Consumer Electronics
- Aerospace and Defense
- Automotive
- IT and Telecommunication
- Healthcare

Others

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being B&K Precision Corporation, Fluke Corporation (Fortive Corporation), Good Will Instrument Co. Ltd., Keysight Technologies, National Instruments Corporation, Pico Technology Limited, Rigol Technologies Co. Ltd., Rohde & Schwarz GmbH & Co KG, Scientech Technologies Pvt. Ltd., Teledyne LeCroy Inc. (Teledyne Technologies Incorporated) and Yokogawa Electric Corporation.

Key Questions Answered in This Report

1. How big is the global oscilloscope market?
2. What is the expected growth rate of the global oscilloscope market during 2023-2028?
3. What are the key factors driving the global oscilloscope market?
4. What has been the impact of COVID-19 on the global oscilloscope market?
5. What is the breakup of the global oscilloscope market based on the type?
6. What is the breakup of the global oscilloscope market based on the probe type?
7. What is the breakup of the global oscilloscope market based on the end user?
8. What are the key regions in the global oscilloscope market?
9. Who are the key players/companies in the global oscilloscope market?

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