

Irrigation Automation Market Forecasts to 2034 – Global Analysis By Product (Computer-based Irrigation Control, Real-time Feedback and Other Products), System (Automatic and Semi-automatic), Irrigation Type, Component, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Irrigation Automation Market is accounted for \$6.46 billion in 2026 and is expected to reach \$12.87 billion by 2034 growing at a CAGR of 9.0% during the forecast period. Irrigation automation involves the use of technology to efficiently manage and control the process of watering crops or landscapes. By integrating sensors, controllers, and communication systems, irrigation automation enables the precise and timely delivery of water to plants. Automated systems can be programmed to adjust irrigation schedules based on weather conditions, soil moisture levels, and specific crop requirements, ensuring optimal hydration without waste.

According to the Food and Agricultural Organization, more than 60% of the world population is dependent on agriculture for survival.

Market Dynamics:

Driver:

Water scarcity concerns

Water scarcity concerns are a key driver for the growth of the market, as they compel farmers to adopt efficient water management practices. With increasing global water

shortages, precision irrigation systems offered by automation technologies have become essential for optimizing water usage in agriculture. These systems enable farmers to monitor soil moisture levels and deliver precise amounts of water, minimizing waste. As sustainability becomes a priority, the demand for irrigation automation rises, driven by the need to conserve water resources and ensure long-term agricultural productivity in the face of escalating water scarcity challenges.

Restraint:

Dependency on weather conditions

The irrigation automation market is significantly impacted by dependence on weather conditions, posing a notable restraint. Automated irrigation systems often rely on accurate weather data to optimize water usage and scheduling. Unpredictable or extreme weather conditions, such as sudden rainfall or unanticipated droughts, can disrupt the efficiency of these systems. Inaccurate weather predictions may lead to over-irrigation, wasting resources, or under-irrigation, affecting crop yield. As a result, the dependency on weather conditions introduces a level of uncertainty and potential inefficiency in irrigation automation.

Opportunity:

Market expansion in developing regions

As developing regions experience rapid urbanization and modernization of agriculture practices, there is a growing demand for efficient water management systems. Irrigation automation, which enhances crop yield while conserving water resources, aligns with the needs of developing economies striving for sustainable agricultural practices. The potential for increased adoption in these regions is fueled by the necessity to optimize irrigation processes, improve productivity, and mitigate the impact of water scarcity. This expansion not only addresses local agricultural challenges but also opens up new avenues for global irrigation automation providers.

Threat:

Dependency on power and connectivity

The reliance on consistent power sources for automated irrigation systems makes them vulnerable to disruptions such as power outages or fluctuations. Connectivity issues,

including poor network coverage or technical glitches, can impede the seamless operation of these systems. These dependencies pose a risk to the efficiency and reliability of irrigation automation, potentially leading to suboptimal agricultural outcomes. Stakeholders in the market must address these concerns through robust power backup solutions and resilient connectivity infrastructure.

Covid-19 Impact:

Supply chain disruptions, labor shortages, and economic uncertainties have slowed down the adoption of automation technologies in agriculture. Farmers faced challenges in implementing and upgrading irrigation systems due to restrictions on movement and reduced financial capacity. However, the pandemic has also underscored the importance of resilient and efficient agricultural practices, driving a long-term interest in automation solutions. As the world adapts to new norms, the irrigation automation market is expected to rebound with a renewed focus on technology-driven precision agriculture.

The computer-based irrigation control segment is expected to be the largest during the forecast period

The computer-based irrigation control segment is experiencing significant growth in the market due to advancements in technology and the increasing adoption of smart irrigation systems. Farmers and agricultural enterprises are leveraging computer-based solutions to optimize water usage, monitor soil conditions, and remotely manage irrigation schedules. This technology allows for precision irrigation, ensuring that crops receive the right amount of water at the right time, leading to improved efficiency and resource utilization.

The sprinklers segment is expected to have the highest CAGR during the forecast period

The sprinklers segment in the irrigation automation market has witnessed robust growth driven by the increasing adoption of smart irrigation systems. These advanced sprinkler systems offer precision and efficiency in water distribution, optimizing resource utilization for agriculture and landscaping. The integration of sensor technologies and real-time data analytics enhances automation, allowing for intelligent irrigation scheduling based on weather conditions and soil moisture levels. This not only ensures water conservation but also improves crop yields. As a result, farmers and landscaping professionals are increasingly turning to automated sprinkler systems.

Region with largest share:

The North American region has experienced substantial growth in the market, driven by a surge in the adoption of advanced agricultural technologies. Farmers are increasingly embracing automated irrigation systems to enhance efficiency, reduce water waste, and optimize crop yields. Factors such as the need for sustainable water management, labor shortages, and a growing emphasis on precision agriculture have propelled the demand for these solutions. Additionally, the region's robust infrastructure, technological advancements, and favourable regulatory support have collectively fuelled the rapid adoption of irrigation automation technologies among farmers, fostering sustained market growth.

Region with highest CAGR:

The irrigation automation market in Europe has witnessed robust growth due to increasing awareness about water conservation coupled with the adoption of advanced technologies in agriculture. Farmers in the region are increasingly embracing automated irrigation systems to optimize water usage, enhance crop yields, and reduce operational costs. The integration of smart technologies, such as sensors and remote monitoring, has become a key driver, enabling farmers to efficiently manage irrigation schedules.

Key players in the market

Some of the key players in Irrigation Automation market include Calsense, Holman Industries, Hunter Industries, HydroPoint Data Systems, Irritec S.p.A., Jain Irrigation Systems, Lawn Genie, Lindsay Corporation, Nelson Irrigation Corporation, Netafim, Rain Bird Corporation, Rubicon Water, Stevens Water Monitoring Systems Inc. and Valmont Industries Inc.

Key Developments:

In January 2024, Hunter has released the new Wireless Valve Link using LoRa Wireless Radio Technology so contractors can easily connect valves without running additional wires or cutting into hardscape. It works with Hunter ICC2 and HCC Controllers and is compatible with Centralus and Hydrowise Software. Optional Solar Panel Kit for Wireless Valve Link eliminates the need to replace alkaline batteries in the field.

In May 2023, Rain Bird Corporation has announced a new partnership with Flume, the

company that brings connectivity and intelligence to residential water usage. Together, the companies will deliver a new generation of whole-home water management solutions to help homeowners and water agencies achieve substantial water savings.

Products Covered:

Computer-based Irrigation Control

Real-time Feedback

Volume-based

Time-based

Other Products

Systems Covered:

Automatic

Semi-automatic

Irrigation Types Covered:

Drip

Surface

Components Covered:

Controllers

Soil

Sensors

Sprinklers

Valves

Fertigation

Weather-based

Other Components

End Users Covered:

Agricultural

Golf Courses

Greenhouse

Residential

Open Field

Turf & Landscape

Non-Agricultural

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 3032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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