

Global Intelligent Monitoring System for Flood Control Projects Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Intelligent Monitoring System for Flood Control Projects market size was valued at US\$ 1180 million in 2025 and is forecast to a readjusted size of US\$ 2250 million by 2032 with a CAGR of 9.8% during review period.

Intelligent Monitoring System for Flood Control Projects is a modern intelligent monitoring network built using IoT technology. It collects data in real-time and automatically by deploying numerous integrated intelligent sensors (such as water level gauges, rain gauges, seepage meters, displacement gauges, and video surveillance equipment) on various flood control facilities, including dikes, reservoirs, pumping stations, and sluice gates. The system utilizes wireless communication and cloud computing technologies to transmit this massive amount of data to a central platform for storage, analysis, and visualization. This enables online monitoring, anomaly warning, and decision support for the operational status, structural safety, and environmental conditions of flood control facilities, significantly improving the emergency response capabilities and facility management efficiency of flood control management departments.

1. Classification by Monitoring Elements

Seepage Monitoring System: Its core function is to monitor seepage pressure, water level, and pore water pressure of the dike to analyze its seepage stability.

Deformation Monitoring System: Responsible for monitoring structural deformation parameters such as dike displacement, settlement, and crack changes to assess the

structural health of the dike.

Rainfall and Water Level Monitoring System: Collects hydrological information such as rainfall, river water level, and flow changes to provide data for flood control scheduling.

Video Surveillance and Image Recognition System: Through camera deployment and the application of AI algorithms, it automates dike inspections and intelligently identifies anomalies (such as piping and cracks).

Classification by Communication and Power Supply Method

Wired Communication System: Uses fiber optic or industrial Ethernet transmission, characterized by stability and reliability, suitable for core urban areas or important dike sections.

Wireless Communication System: Supports protocols such as 4G/5G, NB-IoT, and BeiDou short message service, facilitating rapid distributed deployment.

Classification by Application Scenarios:

Urban Flood Control Embankments and Riverside Embankments: Primarily used for real-time monitoring and rapid emergency early warning of urban flood control.

Small and Medium-Sized Reservoirs and Canal Embankments: Focus on ensuring the safe operation of small and medium-sized water conservancy facilities.

Seawalls and Reclamation Projects: Emphasize tide and seepage prevention monitoring.

Key Flood Control Areas and Watershed Control Systems: The goal is to build a watershed-level "embankment safety monitoring network" to achieve large-scale, systematic management.

2. Case Study: In a riverside city in Central China, embankment safety management previously relied on manual patrols, resulting in long monitoring cycles, data lag, and slow risk response. To address this issue, the city launched the "Smart Flood Control and Embankment Safety Monitoring Integration Project" in 2023. This project deployed 800 sets of automated embankment monitoring terminals, covering key embankment sections throughout the city. Technically, the system mainly uses NB-IoT wireless

communication and solar power, integrating multiple monitoring functions such as seepage pressure, displacement, rainfall, water level, and video. After completion, the project achieved automatic data collection, real-time uploading, and intelligent analysis through a cloud platform, yielding significant results: the data upload cycle was reduced from 3 hours to 5 minutes, early warning response time was shortened by 60%, and the efficiency of dike safety inspections increased by 70%. The system supports remote dispatching by the flood control command center, enabling collaborative linkage among multiple departments and providing crucial scientific decision-making support for flood season defense.

3. Upstream and Downstream Analysis The upstream segment primarily provides key system components, including high-precision sensors, low-power communication modules, power systems, edge computing terminals, solar panels, protective housings, and monitoring software platforms. Core technologies are concentrated in high-precision sensors and data acquisition units (DTUs). The main participants are sensor manufacturers and communication equipment suppliers. The midstream segment consists of system integrators and water conservancy information equipment manufacturers, responsible for the overall system design, equipment assembly, network access, platform development, and subsequent operation and maintenance services. The downstream segment comprises the system's main users, including water conservancy departments at all levels, flood control command centers, dike management units, and smart watershed operation agencies. Typical applications of the system include flood control dispatching, dike health assessment, disaster early warning, and the construction of digital twin watersheds.

4. Technological Trends and Innovation Directions Future technological innovation directions will primarily focus on enhancing system intelligence, integration, and sustainability: **Multi-source sensing and intelligent fusion:** The goal is to integrate multiple monitoring methods such as radar, hydrology, geology, and meteorology to achieve multi-dimensional sensing and fusion analysis of dike status. **Edge computing and AI early warning models:** Implementing preliminary data analysis and anomaly identification on monitoring terminal devices to reduce cloud processing pressure and significantly improve the real-time performance of early warnings. **Digital twins and 3D visualization management:** The core is to build a digital twin model of the dike to achieve simultaneous virtual and real monitoring and high-precision risk prediction. **Low power consumption and green energy supply:** Widely adopting solar power plus energy storage battery solutions to extend equipment endurance and better support long-term stable operation in remote areas. **Standardization and modular construction:** Promoting the standardization of sensor interfaces, communication protocols, and data formats to

achieve cross-platform and cross-system interconnection.

5. Market Prospects and Development Trends

With the continuous advancement of national policies on smart water conservancy, modernization of river basin management, and the construction of disaster prevention and mitigation systems, IoT monitoring systems for flood control facilities are shifting from single monitoring points to comprehensive sensing, intelligent early warning, and digital twin management. **Market Forecast:** The global market size for levee and water conservancy safety monitoring systems is projected to reach US\$2.1 billion by 2031. **Growth Potential:** The Asia-Pacific region is expected to experience the fastest market growth, with China's market projected to have a CAGR exceeding 12%. **Growth Drivers:** The core drivers of market growth include national policy support for flood control, disaster mitigation, and smart water conservancy projects; the deep integration of AI and IoT technologies in monitoring systems; and the urgent need to build digital twin river basin and intelligent prevention and control systems.

This report is a detailed and comprehensive analysis for global Intelligent Monitoring System for Flood Control Projects market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand 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 Monitoring System for Flood Control Projects market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Intelligent Monitoring System for Flood Control Projects market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Intelligent Monitoring System for Flood Control Projects market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Intelligent Monitoring System for Flood Control Projects market shares of main players, in revenue (\$ Million), 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 Monitoring System for Flood Control Projects
- 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 Monitoring System for Flood Control Projects market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Canary Systems, Hexagon, Syperion, Campbell Scientific, Ricoh, Leica Geosystems, RST Instruments, Turnbull Infrastructure & Utilities Ltd, Proxima Systems, GEOKON, etc.

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

Market segmentation

Intelligent Monitoring System for Flood Control Projects 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Static Monitoring System

Dynamic Monitoring System

Market segment by Monitoring Parameters

Water Level Monitoring System

Soil Moisture Monitoring System

Others

Market segment by System Integration Level

Standalone Monitoring System

Regional Integrated Monitoring System

Others

Market segment by Application

Water Resources Management Industry

Emergency Management

Environmental and Ecological Protection

Others

Market segment by players, this report covers

Canary Systems

Hexagon

Syperion

Campbell Scientific

Ricoh

Leica Geosystems

RST Instruments

Turnbull Infrastructure & Utilities Ltd

Proxima Systems

GEOKON

Geoworld

Advantech

CSIRO

Reutech Radar Systems

Elexon Mining

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Intelligent Monitoring System for Flood Control Projects product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Intelligent Monitoring System for Flood Control Projects, with revenue, gross margin, and global market share of Intelligent Monitoring System for Flood Control Projects from 2021 to 2026.

Chapter 3, the Intelligent Monitoring System for Flood Control Projects competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Intelligent Monitoring System for Flood Control Projects market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Intelligent Monitoring System for Flood Control Projects.

Chapter 13, to describe Intelligent Monitoring System for Flood Control Projects research findings and conclusion.

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