

Global Intelligent Monitoring System for Flood Control Projects Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Intelligent Monitoring System for Flood Control Projects market size is expected to reach \$ 2250 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

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 studies the global Intelligent Monitoring System for Flood Control Projects demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Intelligent Monitoring System for Flood Control Projects, and provides market size (US\$ million) 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 Monitoring System for Flood Control Projects that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Intelligent Monitoring System for Flood Control Projects total market, 2021-2032, (USD Million)

Global Intelligent Monitoring System for Flood Control Projects total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Intelligent Monitoring System for Flood Control Projects total market, key domestic companies, and share, (USD Million)

Global Intelligent Monitoring System for Flood Control Projects revenue by player, revenue and market share 2021-2026, (USD Million)

Global Intelligent Monitoring System for Flood Control Projects total market by Type, CAGR, 2021-2032, (USD Million)

Global Intelligent Monitoring System for Flood Control Projects total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Intelligent Monitoring System for Flood Control Projects market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Monitoring System for Flood Control Projects Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Intelligent Monitoring System for Flood Control Projects Market, Segmentation by Type:

Static Monitoring System

Dynamic Monitoring System

Global Intelligent Monitoring System for Flood Control Projects Market, Segmentation by Monitoring Parameters:

Water Level Monitoring System

Soil Moisture Monitoring System

Others

Global Intelligent Monitoring System for Flood Control Projects Market, Segmentation by System Integration Level:

Standalone Monitoring System

Regional Integrated Monitoring System

Others

Global Intelligent Monitoring System for Flood Control Projects Market, Segmentation by Application:

Water Resources Management Industry

Emergency Management

Environmental and Ecological Protection

Others

Companies Profiled:

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

Key Questions Answered

1. How big is the global Intelligent Monitoring System for Flood Control Projects market?
2. What is the demand of the global Intelligent Monitoring System for Flood Control Projects market?
3. What is the year over year growth of the global Intelligent Monitoring System for Flood Control Projects market?

4. What is the total value of the global Intelligent Monitoring System for Flood Control Projects market?

5. Who are the Major Players in the global Intelligent Monitoring System for Flood Control Projects market?
6. What are the growth factors driving the market demand?

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