

Global AI-powered Pest and Disease Detection System 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 AI-powered Pest and Disease Detection System market size was valued at US\$ 412 million in 2025 and is forecast to a readjusted size of US\$ 790 million by 2032 with a CAGR of 9.8% during review period.

AI-powered pest and disease detection system utilizes computer vision, deep learning, and multispectral imaging technologies to automatically identify, classify, and locate crop pests and diseases in the field, and assess their severity. Demand primarily stems from the urgent needs of large farms, agricultural cooperatives, and the food supply chain to reduce pesticide overuse, minimize crop losses, ensure yield and quality, and meet green certification standards. The upstream supply chain includes multispectral/hyperspectral camera sensor suppliers, AI chip and computing power providers, cloud computing platforms, and labeled dataset service providers. The downstream supply chain is deeply integrated into the businesses of precision plant protection service providers, drone/smart agricultural machinery manufacturers, agricultural input companies (pesticides, seeds), and agricultural insurance institutions, providing them with a full-chain data service from early pest and disease warning maps and precise pesticide application prescriptions to loss assessment reports. In 2025, the production volume of AI-powered pest and disease detection systems is estimated at approximately 400,000 units, with an average selling price of approximately US\$1,000 per unit and a gross profit margin of approximately 45%.

The core growth driver of the AI-powered pest and disease detection system market stems from a confluence of factors: First, the dual challenges of global food security pressures and climate change have made crop disease control a rigid demand, posing

a continuous threat to the stability of agricultural output. Second, the popularization of precision agriculture and sustainable development concepts has driven large farms and agricultural cooperatives to urgently need to reduce pesticide overuse, minimize crop losses, and meet green certification standards through AI technology. Third, the mature breakthroughs in IoT and AI technologies have made real-time data collection, high-precision image recognition, and predictive analysis possible, significantly improving early warning and precise intervention capabilities for pests and diseases. Fourth, the need for deep integration across the supply chain—from drone/smart agricultural machinery manufacturers and agricultural input companies to agricultural insurance institutions—all require early warning maps, precise pesticide application prescriptions, and loss assessment reports provided by AI detection systems to optimize business decisions, forming a complete business loop.

This report is a detailed and comprehensive analysis for global AI-powered Pest and Disease Detection System 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 AI-powered Pest and Disease Detection System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global AI-powered Pest and Disease Detection System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global AI-powered Pest and Disease Detection System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global AI-powered Pest and Disease Detection System 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 AI-powered Pest and Disease Detection System

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 AI-powered Pest and Disease Detection System 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 Taranis, Sentera, Cropin, Fermata, Agrio, ClimateAi, FlyPix, TMA Innovation, AgroScout, BioScout, etc.

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

Market segmentation

AI-powered Pest and Disease Detection System 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

Visible Light Image-based Visual Inspection System

Multispectral/hyperspectral Physiological Inspection System

Multimodal Fusion-based Inspection System

Market segment by Service Model

Recurring Subscription Fee

One-time Purchase

Market segment by Deployment Method

Fixed

Mobile

Market segment by Application

Major Grain

Fruit Tree

Vegetable

Other

Market segment by players, this report covers

Taranis

Sentera

Cropin

Fermata

Agrio

ClimateAi

FlyPix

TMA Innovation

AgroScout

BioScout

Kindwise

Henan Yunfei Technology Development Co., Ltd.

Beijing EcoMann Biotechnology Co., Ltd.

Henan Zhaodi Electronic Technology Co., Ltd.

Shandong Xiangchen Technology Group Co., Ltd.

Beijing iGreen Technology Co., Ltd.

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 AI-powered Pest and Disease Detection System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of AI-powered Pest and Disease Detection System, with revenue, gross margin, and global market share of AI-powered Pest and Disease Detection System from 2021 to 2026.

Chapter 3, the AI-powered Pest and Disease Detection System 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 AI-powered Pest and Disease Detection System 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 AI-powered Pest and Disease Detection System.

Chapter 13, to describe AI-powered Pest and Disease Detection System research findings and conclusion.

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