

# Global AI-powered Pest and Disease Detection System Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global AI-powered Pest and Disease Detection System market size is expected to reach \$ 790 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032).

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 studies the global AI-powered Pest and Disease Detection System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for AI-powered Pest and Disease Detection System, 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 AI-powered Pest and Disease Detection System that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global AI-powered Pest and Disease Detection System total market, 2021-2032, (USD Million)

Global AI-powered Pest and Disease Detection System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: AI-powered Pest and Disease Detection System total market, key domestic companies, and share, (USD Million)

Global AI-powered Pest and Disease Detection System revenue by player, revenue and market share 2021-2026, (USD Million)

Global AI-powered Pest and Disease Detection System total market by Type, CAGR, 2021-2032, (USD Million)

Global AI-powered Pest and Disease Detection System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world AI-powered Pest and Disease Detection System 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 AI-powered Pest and Disease Detection System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global AI-powered Pest and Disease Detection System Market, Segmentation by Type:

Visible Light Image-based Visual Inspection System

Multispectral/hyperspectral Physiological Inspection System

Multimodal Fusion-based Inspection System

Global AI-powered Pest and Disease Detection System Market, Segmentation by Service Model:

Recurring Subscription Fee

One-time Purchase

Global AI-powered Pest and Disease Detection System Market, Segmentation by Deployment Method:

Fixed

Mobile

Global AI-powered Pest and Disease Detection System Market, Segmentation by Application:

Major Grain

Fruit Tree

Vegetable

Other

Companies Profiled:

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.

### Key Questions Answered

1. How big is the global AI-powered Pest and Disease Detection System market?
2. What is the demand of the global AI-powered Pest and Disease Detection System market?
3. What is the year over year growth of the global AI-powered Pest and Disease Detection System market?
4. What is the total value of the global AI-powered Pest and Disease Detection System market?
5. Who are the Major Players in the global AI-powered Pest and Disease Detection System market?

6. What are the growth factors driving the market demand?

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