

Insect Monitoring Light

NY3400

Features

- Complete Unit Dimensions: 710*600*2120mm (including base)
- Screen: 10.1-inch touch screen
- Equipped with a high-definition camera to photograph collected insect specimens, enabling the recording of insect species and quantities.
- Waterproof Louvers: The lamp is surrounded by 2mm transparent glass panels for waterproof protection.
- Infrared Pest Elimination: The far-infrared insect processing chamber features temperature control, reaching 90±5°C after 15 minutes of operation, with adjustable processing duration.
- Power Supply: Voltage fluctuation range: 220V±60V, equipped with a leakage protection device.
- Network Mode: Multiple connectivity options including 4G, Wi-Fi, and wired connection, allowing flexible selection for remote management anytime, anywhere.
- The insect monitoring light features a built-in 12-megapixel image capture device for real-time imaging of insects on the collection tray.

Applications

- Field Crop Cultivation
- Vegetable Greenhouse Farming
- High-Standard Farmland Construction
- Forestry Protection
- Agricultural Research
- Orchard Monitoring

Description

NY3400 Insect Monitoring Light is a new pest monitoring tool developed by our company. It complies with the national standard GB/T 24689.1-2009 Plant Protection Machinery – Insect Monitoring Light.

Using optical, electronic, and digital control technologies, the device automatically performs insect attraction, elimination, dispersion, imaging, conveying, collection, and drainage without manual operation. It then uploads real-time environmental and pest data via wireless and IoT technologies to a dedicated agricultural cloud platform.

Aligned with China's National Smart Agriculture Action Plan (2024–2028), it supports the development of intelligent pest monitoring networks and early warning systems, encouraging regional deployment of integrated field monitoring solutions.

Data is transmitted via 4G/LTE through an IoT platform and can be viewed on mobile or computer terminals, enabling visual monitoring, analysis, and forecasting of insect activity to support modern agriculture and pest research.

Model	Descrip
NY3400	Insect Monitoring Light
NY3400-AI	AI-Powered Insect Monitoring Light



Figure 1 NY3400 Insect Monitoring Light

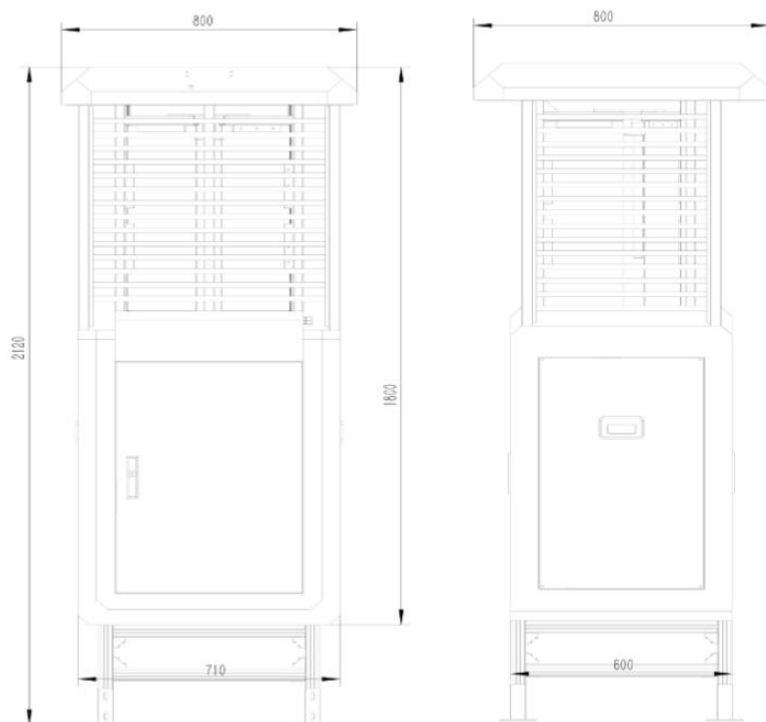
1. Selection Guide

Model	Descrip
NY3400	Insect Monitoring Light
NY3400-AI	AI-Powered Insect Monitoring Light

2. Packing List

Product Name	NY3400 / NY3400-AI
Installation Method	Floor-standing cabinet
External Dimensions	710*600*2120mm (including base)
Main Unit Material	Aluminum alloy with spray coating
Screen	10.1-inch touch screen
Insect Collector	8-position automatic rotating tray
Composition	Attraction device, impact screen, insect elimination unit, high-definition camera, main control system, mechanical assembly, rain/snow sensor, light sensor, professional metal enclosure frame
Sampling Time	Real-time collection
Power Supply Mode	Voltage fluctuation range: 220V±60V, solar panel + battery/lithium battery
Network Mode	Multiple connectivity options (4G, Wi-Fi, wired)
Interface	Platform provides API interface. SDK development interfaces based on Java and C# are available
Light Control	Automatically turns on at night and off during the day (standby mode)
Cleaning Method	Automatic conveyor belt for insect delivery and cleaning
Rain Control System	Independent drainage structure, automatic rainwater discharge, rain-insect separation

3. Effect Diagram



Insect Monitoring Light Dimensional Drawing
(with Base)