

Spore trap

NY3500

Features

- The spore device is equipped with dual-axis motors (horizontal and vertical) for internal movement.
- It can display the real-time progress of each sampling cycle on the glass slide.
- The device includes a high-resolution microscope capable of clearly capturing and displaying spores sized 5–100 μm .
- Overall dimensions: 600 × 640 × 1418 mm.
- The built-in glass slide tape can be replaced and used continuously for up to 365 days.
- Camera: 5-megapixel.
- Built-in GPS positioning allows device location data to be viewed on a web-based map.
- Supports multiple connectivity options (4G and RJ45).

Applications

- Disease Monitoring and Prevention
- Forestry Protection
- High-standard Farmland Construction
- Field Crop Cultivation
- Urban Greening and Landscape Management

Description

The Spore Trap is equipped with a high-magnification optical microscopic imaging system, precision limit-stop technology, automated intelligent focusing and fusion technology, and IoT-based transmission and control technology. It enables all-weather real-time collection and analysis, saving time and offering user-friendly operation. Utilizing software-driven image optimization algorithms, it captures tiny target objects with enhanced clarity and visual detail. It is widely applicable in agriculture, forestry, animal husbandry, vegetable cultivation, tobacco, tea, medicinal herbs, landscaping, orchards, urban greening, quarantine, and related fields.

Widely used in agriculture, forestry, horticulture, and urban greening, it supports the National Smart Agriculture Action Plan (2024–2028) by providing real-time pathogen monitoring for early disease warning. Data can be accessed and managed remotely via web or mobile platforms.

Model	Descrip
NY3500	Spore trap



Figure 1 NY3500 Spore Trap

1. Selection Guide

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NY3500	Spore trap

2. Parameter

Product Name	NY3500
Installation Method	Cabinet-mounted
Main Structure	Spray-coated material
Power Supply Voltage	220V AC (solar power supply optional: 480W/200Ah)
Maximum Startup Power	≤65W
Stable Operating Power	≤50W
Standby Power	≤26.4W
Operating Environment	-20 °C to 70 °C, 0–95% relative humidity (non-condensing)
Built-in Slide Belt	Single replacement allows continuous operation for up to 365 days
Camera	5-megapixel

Technical Specifications

1. Overall Dimensions: 600*640*1418mm
2. Communication Method: 4G upload based on cellular network, using TCP/IP protocol for data transmission. Supports dynamic DNS resolution; simply insert a SIM card to upload data to a remote monitoring software platform.
3. Built-in Slide Tape: A single replacement allows continuous use for up to 365 days, with three captures per day.
4. Insulation Resistance: $\geq 2.5 \text{ M}\Omega$ (leakage protection).
5. Camera: 5-megapixel.
6. Operating System: Android.
7. Gas Sampling: Sampling time range: 60–1200 minutes (configurable). Sampling area: 50mm (length) * 21mm (width).
8. Operating Time Setting: Supports timed startup in 24-hour format, allowing flexible scheduling of operation within a 24-hour period.

Cloud Platform

1. Enables remote real-time viewing and control, and real-time spore analysis.
2. Allows real-time remote switching of the spore trap analyzer's operating modes to enable automatic and remote photography, and provides early warning for slide tape usage.
3. In automatic mode, parameters such as start time, working duration, sampling duration, operating intervals, and slide tape movement pulse count per cycle can be configured and remotely deployed to the device.
4. In remote control mode, the intake port, exhaust port, sampling port, light source status, and slide tape motor status of the spore trap analyzer can be controlled remotely.

3.Effect Diagram

Product Front View



Product Structure

