



MEDICATED INSECT CONDITION MONITORING LAMP 1

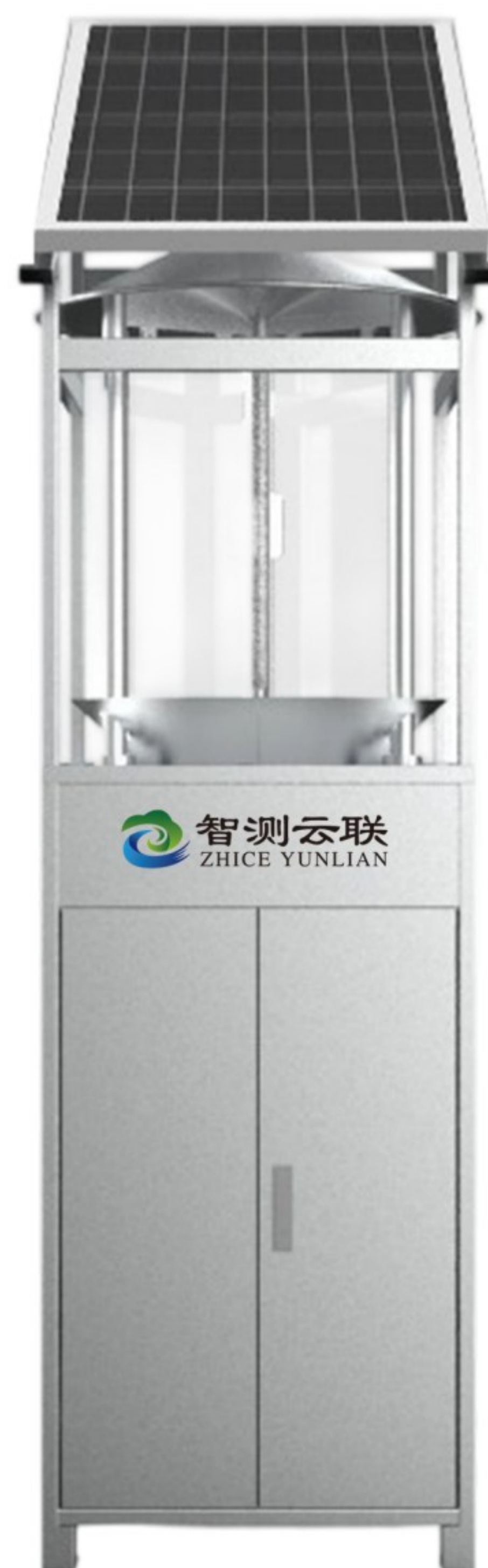
Product Introduction

Zhice Yunlian ZC-ZQ1 medicated insect trapping & forecasting lamp integrates photoelectric, medicinal and digital control technologies to realize functions including pest trapping, disinsection and insect sorting.

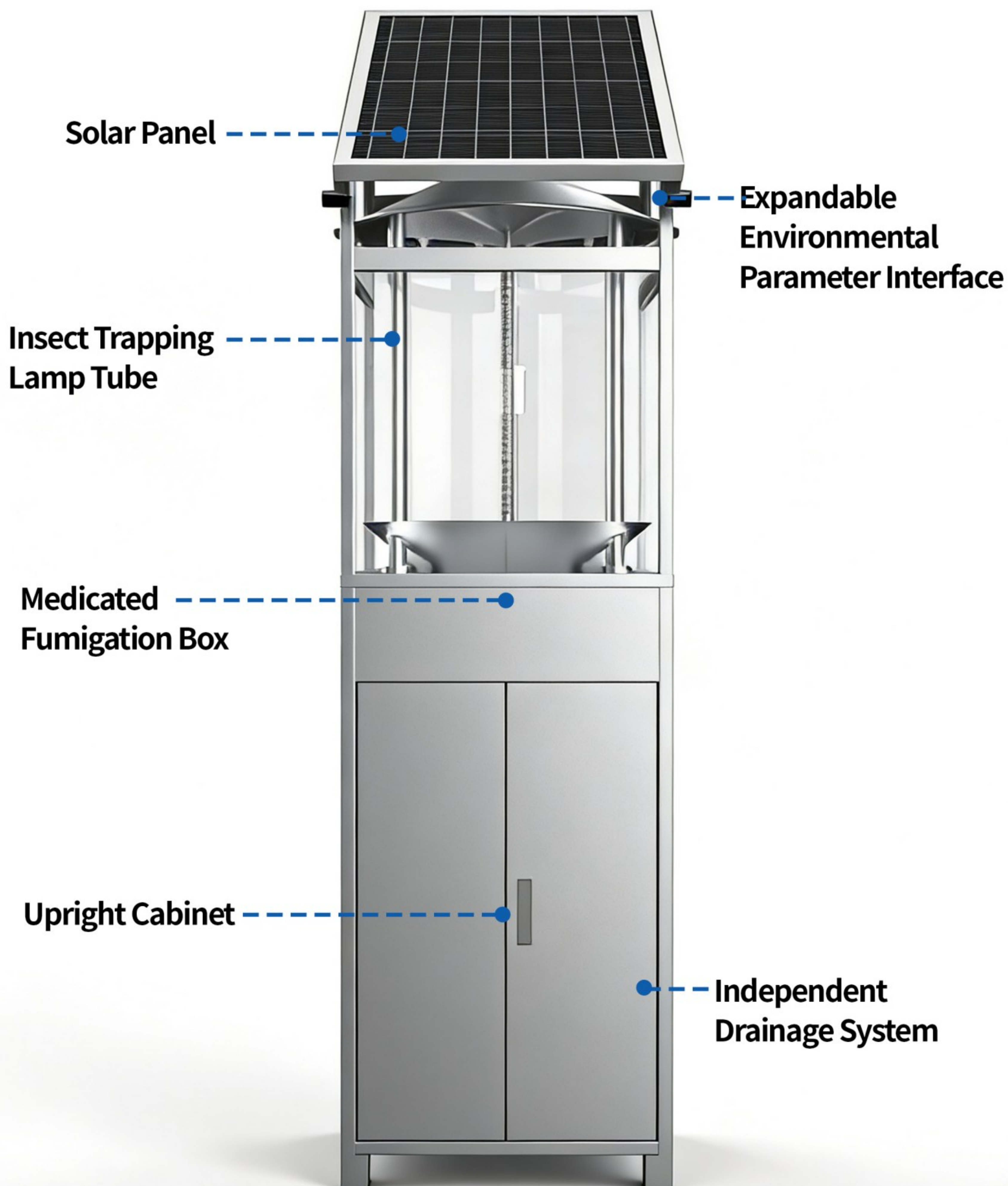
Under unattended operation, the device automatically completes a full workflow: trapping pests, killing insects, separating insect bodies, photographing, transporting samples, collecting specimens and draining water. It applies wireless transmission and IoT technology to upload real-time environmental meteorology and pest situation data to the designated agricultural cloud platform.

Core Functions

1. Trap Pests
2. Three-Layer Filter Screen
3. Medicated Fumigation Pest Killing
4. Timing Control Module
5. Accurate Monitoring
6. Integrated All-in-One Structure
7. Data Visualization Cloud Platform
8. Stable & Reliable Data Transmission



Product Structure





Technical Specification

Product Factor	Detailed Description
Implemented Standard	Complies with GB/T 24689.3-2009 standard
Trapping Light Source Type	15W black light tube (dominant wavelength: 365nm)
Insect Body Disposal Method	Three-layer filter screen for insect separation, treated by medicated fumigation
Impact Screen Design	Arranged at an included angle of 120°, with complete dimension specifications
Core Control Function	Intelligent charge-discharge and lamp on/off control for day and night cycles
Light Sensing Performance	Night operation unaffected by instantaneous strong light; automatic day-night switching
Timing Control Mode	Customizable timing schedule based on living habits of target pests
Safety Protection Functions	Reverse connection protection, low-temperature protection, battery overcharge & overdischarge protection
Control Circuit Design	Highly integrated monolithic circuit board with multi-module integration, no loose wiring harnesses
Operation Functions	Supports one-click self-inspection and working duration configuration

Product parameters

Product Parameter	Specification
Operating Voltage	AC12V
Rated Power	20W
Insulation Resistance	≥2.5MΩ
Overall Lamp Dimension	600mm×600mm×1800mm
Tube Startup Time	≤5s
Single Impact Screen Size	Length: 595±2mm, Width: 213±2mm, Thickness: 5mm
Low-Temperature Protection Threshold	Activates when ambient air temperature drops to approx. 5°C (tolerance ±5%)



Introduction to the upper computer software

Function Category	Specific Description
Core Functions	Realize integrated management of data reception, storage, viewing and analysis in the PC standalone environment
Data Reception and Processing	1. Support data reception via serial port, as well as data processing and visual display 2. Compatible with communication methods such as JSON string and MODBUS485
Parameter Configuration	1. Allow independent setting of data storage time 2. Support custom collection time in MODBUS485 collection mode
Monitoring Parameter Management	Support users to independently add, delete and modify monitoring parameters, including information such as parameter protocols, names and icons
Data Processing Expansion	1. Equipped with data post-processing function 2. Support external running of JAVASCRIPT scripts



Introduction to Cloud Platform

Function Category	Specific Description
Architecture & Access Method	Adopts a CS architecture software platform, supporting direct access and observation via mobile phones and PC browsers without additional software installation
Account & Device Management	Supports multi-account and multi-device login, meeting the collaborative management needs of multiple users and terminals
Data Display Function	1. Provides dashboards for real-time data display and historical data display 2. Supports data curve analysis 3. Supports map display and device information viewing
Data Storage & Stability	Implements cloud data storage based on cloud servers, featuring stability, reliability, easy scalability and load balancing
Alarm & Threshold Management	Supports SMS alarm function, allowing custom alarm threshold settings to respond to abnormal data in a timely manner
Data Processing & Output	1. Supports data export in table format 2. Has data post-processing function 3. Supports external running of JAVASCRIPT scripts to enhance customization capabilities
Data Forwarding Function	Supports data forwarding via multiple protocols, including HJ-212 protocol, TCP forwarding, HTTP protocol, etc.

