



WARNING BROADCASTING STATION

Introduction

Zhice Yunlian warning broadcasting station is an outdoor intelligent early warning terminal integrating environmental sensing, emergency broadcasting and audible & visual alarm. Adopting an integrated pole-mounted design, it is equipped with a meteorological sensor and solar power panel on the top for all-weather operation.

The middle section is fitted with dual-horn sound amplification units and an audible & visual warning light to deliver early warning information rapidly. The lower part integrates an intelligent control box with built-in data acquisition and communication modules, which can be connected to various monitoring systems.

The whole device adopts industrial-grade protection design, adapting to complex outdoor environments such as high temperature, rain, snow and sandstorms. It provides stable and reliable early warning broadcasting capability for scenic spots, forest areas, river channels and other scenarios.

Functions

Environmental Monitoring: Supports access to multi-type monitoring data such as meteorology, hydrology and geology, and automatically triggers early warning when the monitored value exceeds the threshold.

Emergency Broadcasting: Supports remote call, pre-recorded voice broadcast and timed broadcast, achieving wide-range, high-definition sound coverage.

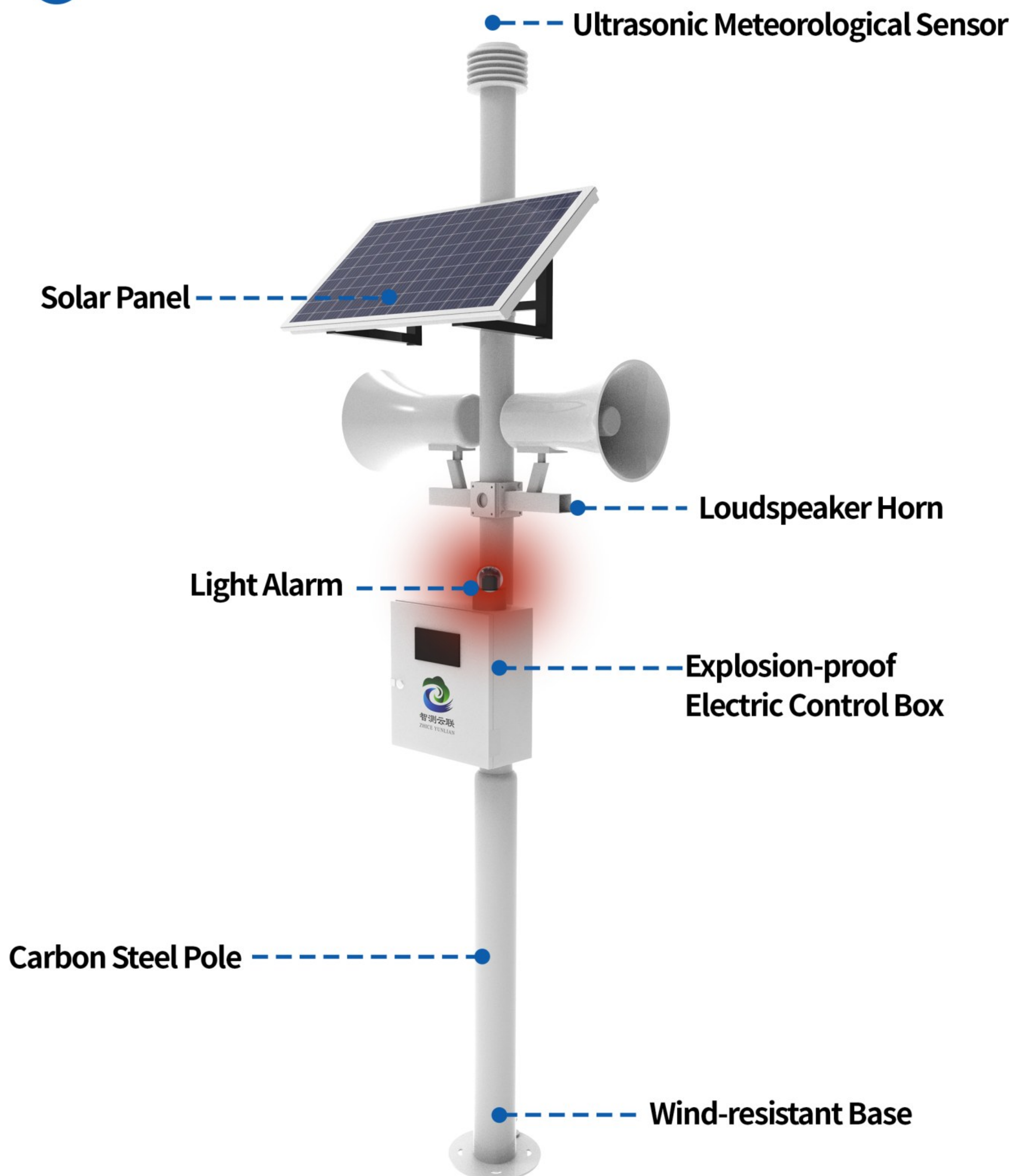
Audible & Visual Alarm: Equipped with warning lights that flash synchronously with broadcast warnings, enhancing the visibility and deterrence of warning signals.

Remote Operation & Maintenance: Supports remote configuration, status monitoring and content update via the cloud platform, reducing on-site maintenance costs.



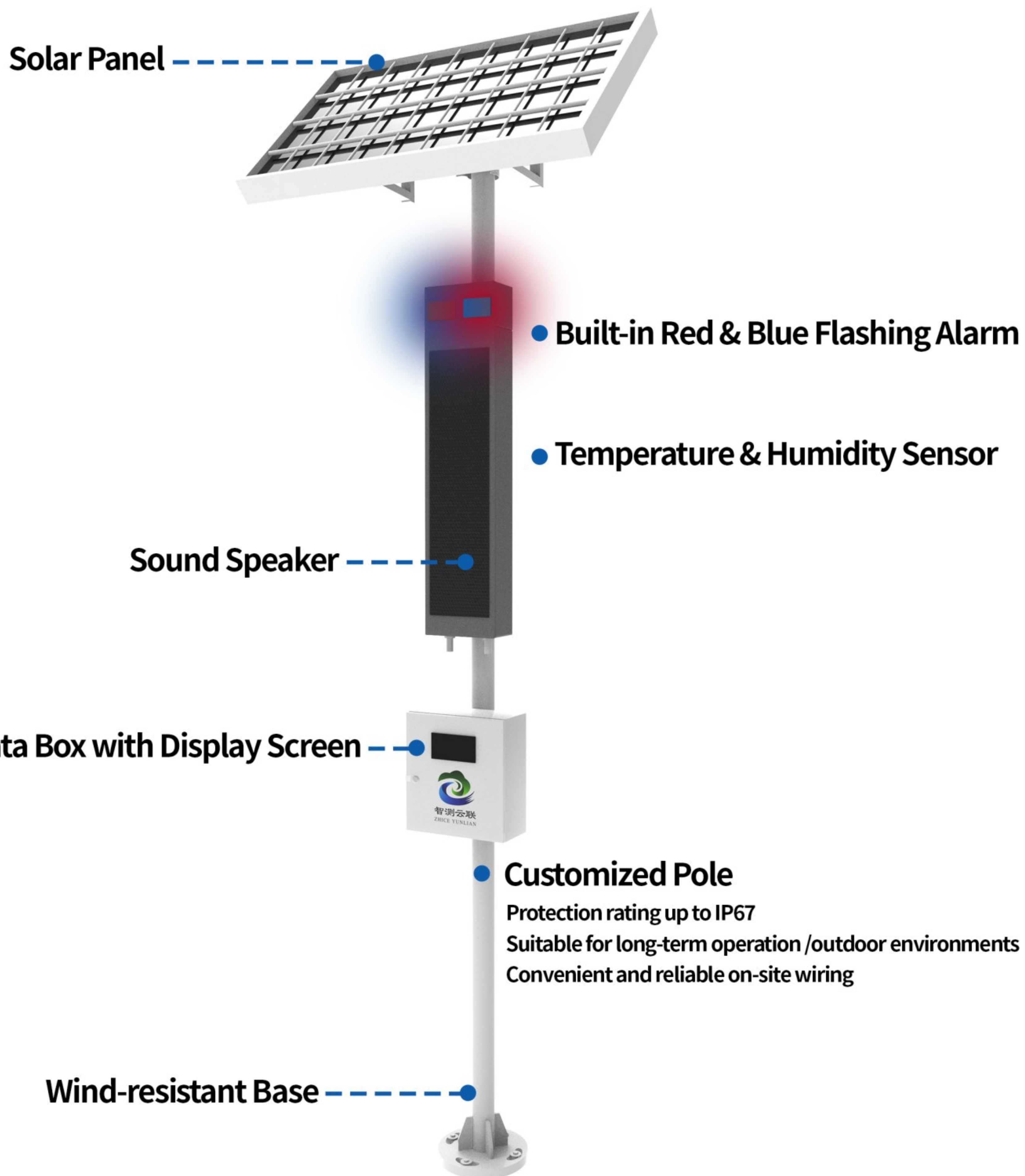


Basic Model





Advanced Model



Parameters

Category	Parameter	Specifications
Wireless Early Warning Broadcasting	Power Supply Voltage	DC12V, AC180~250V
	Operating Environment	Working temperature: -20 ~ 65°C; Humidity: < 95% non-condensing
	Output Power	≥100W
	Standby Power Consumption	< 1W
	Total Harmonic Distortion	< 1%
	Signal-to-noise Ratio	> 50dB
Supporting Equipment (Optional)	Chassis	Material and size customizable on demand
	Solar Power System	60W / 100W solar power supply system
	Pole	Customizable length
	Lightning Protection Equipment	Power and signal lightning protection
	Horn	8Ω 25W
	Speaker	—
	Sensor	Optional parameters, see next page for details
	Surveillance Camera	1080p, optional infrared thermal imaging
	Alarm	LED ≤5W, flashing, sealed structure
	Display Screen	Customizable LED screen

Precautions

- 1. Site Selection:** Prioritize open, unobstructed high positions for installation to maximize sound coverage. Keep away from strong electromagnetic interference sources (such as high-voltage transmission towers and base stations) to avoid signal interference.
- 2. Power Supply & Lightning Protection:** For solar power supply, ensure the photovoltaic panel faces due south with a tilt angle adapted to the local latitude. Power and signal lightning protection devices must be installed as a complete set. In areas with frequent thunderstorms, additional grounding treatment is required, with grounding resistance $\leq 4\Omega$.
- 3. Structural Safety:** The pole shall be firmly fixed on a concrete foundation, with wind resistance grade no lower than local meteorological standards. Screws on horns, chassis and other components shall be tightened to prevent loosening and falling off after long-term outdoor use.



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.

