

FOREST METEOROLOGICAL STATION FIRE PREVENTION STATION



Product Introduction

The Zhiteyunlian Forest Weather Station is a professional monitoring device used for broadcasting, monitoring, and capable of measuring air temperature and humidity, wind speed and direction, and precipitation in forest areas.

It integrates the collection of key meteorological factors related to fire risks, intelligent data transmission, and automatic level warning. It can be widely applied in forest fire prevention fields such as forest farms, nature reserves, and scenic areas.

Configuration and Functions

Alarm device

Meteorological

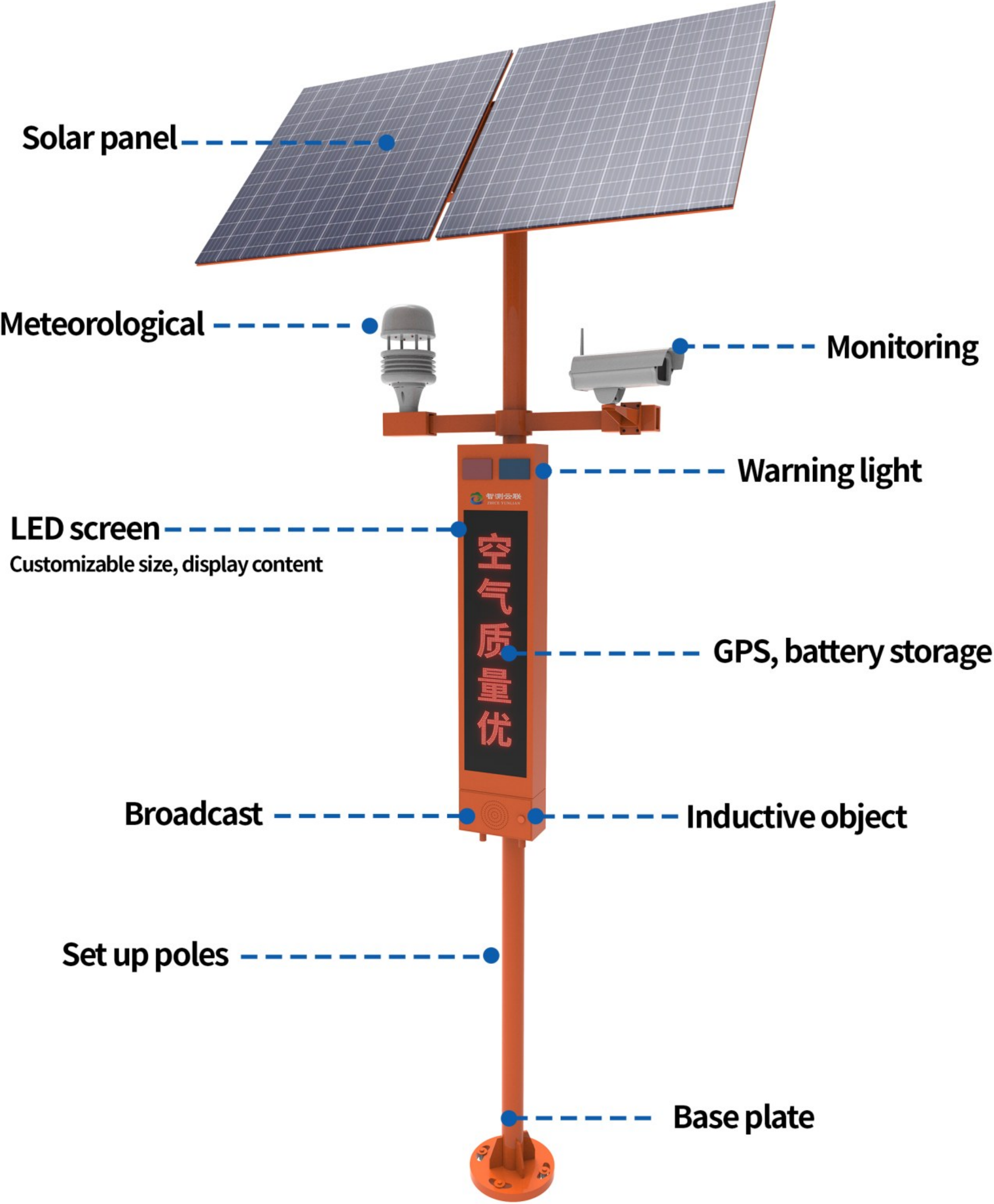
Monitoring system

Display screen





Product structure





Product model (Other configurations can also be customized)



ZC-FH01



ZC-FH02



ZC-FH03



ZC-FH04





Specifications

Product Model	ZC-FH01	ZC-FH02	ZC-FH03	ZC-FH04
Solar Panel / Mains Power	30-200W solar panel optional, also available with pure mains power (common for all models)			
Battery Capacity	10-150AH optional (common for all models)			
Overall Waterproof Rating	IP67 protection rating available at maximum (common for all models)			
Operating Temperature	-40~80°C (common for all models)			
Induction Probe	Infrared induction probe; default quantity: 1, optional quantity available (common for all models)			
Induction Distance	6, 10, 12 meters adjustable (common for all models)			
Strobe Light	Red-blue strobe light (common for all models)			
Display Size	Default 16CM*32CM strip display, customizable	-	Advertising light box	
Speaker	10-70w customizable (common for all models)			
Monitoring System	Resolution, storage card size customizable; Reference: 4 million pixels, resolution 2560*1440; 2000V lightning and surge protection, built-in 256G storage card (common for all models)			
Vehicle & Pedestrian Monitoring, Photo & Alarm	Customizable (common for all models)			
Vehicle & Pedestrian Flow Statistics	Customizable (common for all models)			
Audible-Visual Linked Alarm	√	√	√	√
Induction LED Text Promotion	√	√	-	-
Induction Voice Promotion	√	√	√	√
Induction Red-Blue Strobe Light	√	√	√	√
Environmental Monitoring Module (Optional)	-	√	-	-
Remote Control Series Functions	Customizable: Remote control for video viewing, remote two-way intercom, remote voice modification, remote display text modification (common for all models)			
Positioning Function	√	√	√	√
Lightning Rod	Optional (common for all models)			





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.

