



HANDHELD WEATHER STATION

Product Overview

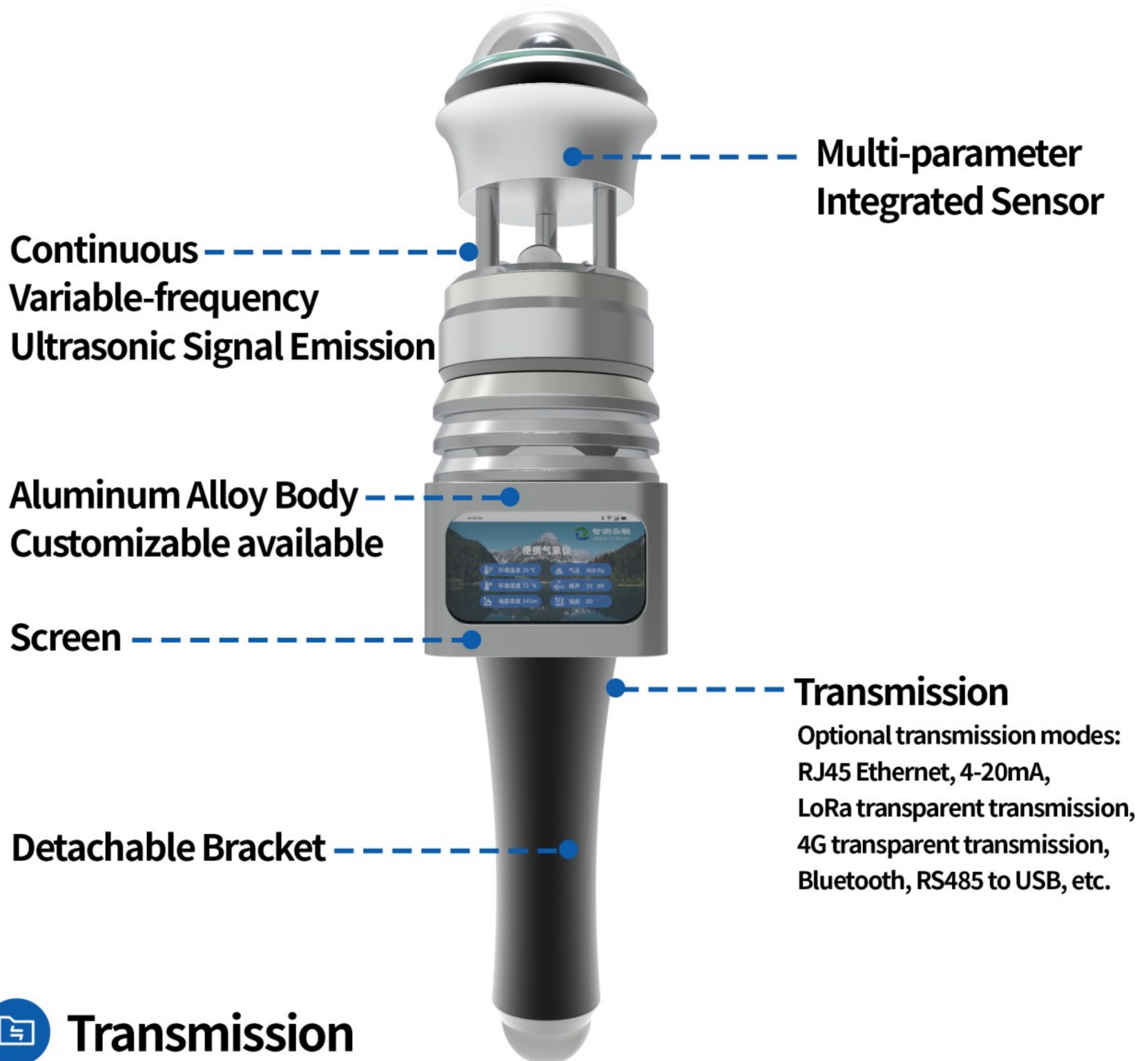
- ZHICEYUNLIAN collaborates with meteorological stations, with the core concept of "extreme portability + precise monitoring", designed for single-person easy carrying, suitable for outdoor mobility and temporary needs.
- The equipment is equipped with an integrated high-precision monitoring unit, covering basic meteorological indicators such as temperature, humidity, wind direction, and wind speed, with accurate and reliable data sampling.
- It is equipped with a high-definition display, allowing for real-time and intuitive data viewing. It supports multiple transmission modes and is compatible with cloud platforms for remote monitoring and data storage. In the event of network interruption, it can locally cache data and automatically retransmit upon reconnection, avoiding data loss.
- The structure is designed with IP67-level waterproof and dustproof features, making it a practical tool for mobile meteorological monitoring that combines portability with professionalism.

Application Scenarios

1. Port, Construction & Outdoor Operation Management
2. Outdoor Sports & Tourism Safety Supervision
3. Disaster Emergency Rescue
4. Environmental Law Enforcement Monitoring
5. Meteorological On-site Sampling & Research



Structure



Transmission

Mode	Wired / Wireless	Internet	LAN	Offline Adaptability
RJ45	Wired	Optional (customized)	Yes	Yes (intranet only)
4-20mA	Wired	No	No	Fully compatible
LoRa	Wireless	No	Yes (self-organized network)	Fully compatible
4G	Wireless	Yes	No	Not supported

Parameter

Item	Measuring Range	Resolution	Accuracy
Wind Speed	0~60m/s	0.01m/s	±(0.1m/s+0.01V)
Wind Direction	0~360°	1°	±2°
Ambient Temperature	-40~80°C	0.01°C	±0.3°C
Ambient Humidity	0~100%RH	0.01%RH	±3%RH (20%~80%)
Atmospheric Pressure	300~1100hPa	0.1hPa	±0.25%FS
Optical Rainfall	0~4mm/min	0.01mm	≤±4%
PM2.5	0~1000μg/m³	1μg/m³	±10% (<500μg/m³)
PM10	0~1000μg/m³	1μg/m³	±10% (<500μg/m³)
Carbon Monoxide (CO)	0~1000ppm	1ppm	±2ppm
Nitrogen Dioxide (NO ₂)	0~20ppm	0.1ppm	±1ppm
Sulfur Dioxide (SO ₂)	0~20ppm	0.1ppm	±1ppm
Ozone (O ₃)	0~20ppm	0.1ppm	±1ppm

Specifications

Item	Specification Details
Collector Power Interface	GX-12-4P plug, input voltage 8-16V, RS45, output JSON data format
Sensor MODBUS & RS485 Interface	GX-12-4P plug, output power supply 12V/1A
Solar Power Supply	Matched lead-acid battery; optional 30W20AH / 50W40AH / 100W100AH charge
Data Upload Interval	Adjustable from 1 minute to 1000 minutes
7-inch Android Touch Screen	Screen resolution: 1024*600 RGB LCD

Power-on Instructions

Flip on the power switch; data will display on the screen and refresh in real time after 5 s.

To save power by keeping detection running while turning off the screen: tap the screen with two fingers to shut down the display. To wake the screen back up, lightly long-press the screen with one finger.

Note: Frequent or overly fast screen taps may cause display lag or stuttering, which is normal. Do not tap the screen with hard objects such as fingernails.

Batteries are loaded from the bottom compartment, with a maximum capacity of 3 rechargeable 18650 lithium batteries. A single fully charged battery can theoretically sustain 12 hours of continuous operation.

Pay attention to battery polarity when replacing or removing the battery tray—reverse installation will cause internal device damage. Do not open the bottom cover unless necessary.

Mobile Phone Connection Guide

Install the HONGASSIT-V2.3.1(CN) APP from the matching USB flash drive onto your phone, then turn on your phone's Bluetooth. Launch the APP; HON-GASSIT will automatically search for Bluetooth signals. Select and tap the device named MTSerIBle once detected.



MTSerIBle-CF

The top-left corner of the screen remains blank before Bluetooth connection; a Bluetooth icon will appear after successful pairing. This APP currently only supports Android smartphones.

Precautions

The arrow mark on the top of the instrument points to true north.

Do not take measurements on the same plane as radar scanning equipment; maintain a minimum distance of 2 meters.

Keep a safe distance from surrounding wireless receiving antennas.

Maintain continuous power supply. The screen will go black when battery power is low; charge the device promptly to avoid permanent battery damage from prolonged low voltage.