

HWS1000

Handheld Weather Station



- Accurate measurements of multiple weather parameters including temperature, humidity, barometric pressure, wind, UV and light
- Built-in weather forecast and comfort index functions
- Support infrared temperature measurement
- Integrated high performance MEMS sensors
- Pocket size and ergonomic design with light weight
- Support GPS/BDS/GLONASS/GALILEO/QZSS/SBAS satellite navigation



LTD



STD



PRO



DEF





HWS1000

Handheld Weather Station

HWS1000 is professional hand-held weather station that supports measurements of temperature, humidity, barometric pressure, wind speed, wind direction, UV, light, infrared temperature, GPS positioning and other parameters. The overall design incorporates ergonomics and reshapes the appearance and structure of the traditional hand-held weather station. The highly integrated electronic circuit design enables the compact size to contain several times more the functionalities, which brings more convenience to outdoor weather observation.

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HWS1000 · Main View

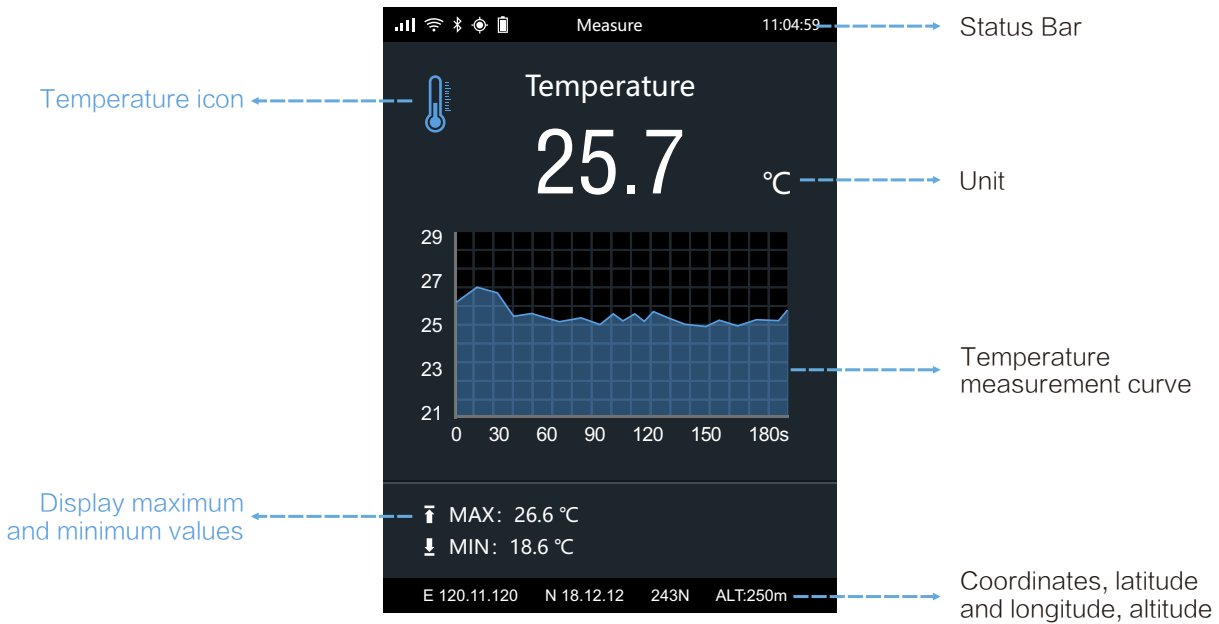




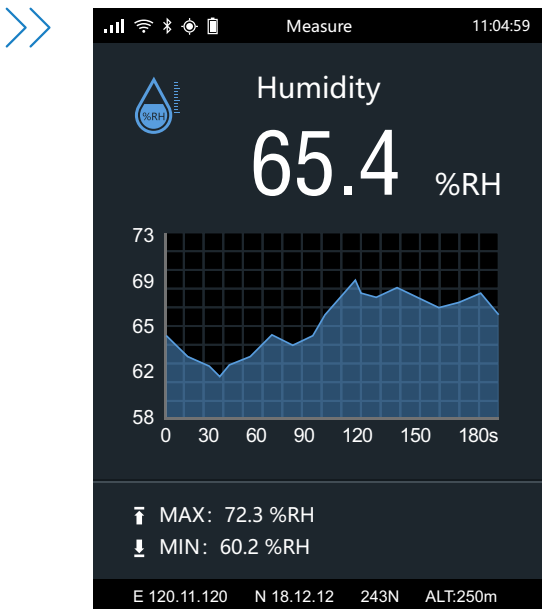
HWS1000 · Interactive Interface

Measurement interface

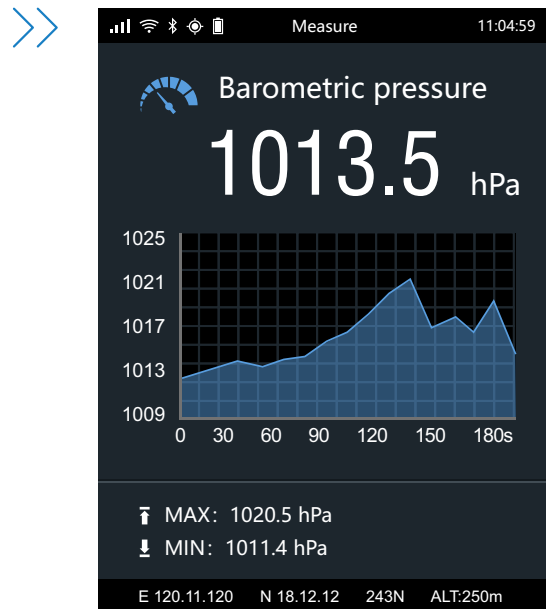
The operation interface of HWS1000 is simple and easy to use, including status bar, icon, value, curve, graph, maximum value statistics, etc. The interface can show various parameters such as "temperature, humidity, air pressure, wind speed, wind direction, light, ultraviolet light, compass, infrared temperature measurement, positioning, star map, weather forecast" and so on.



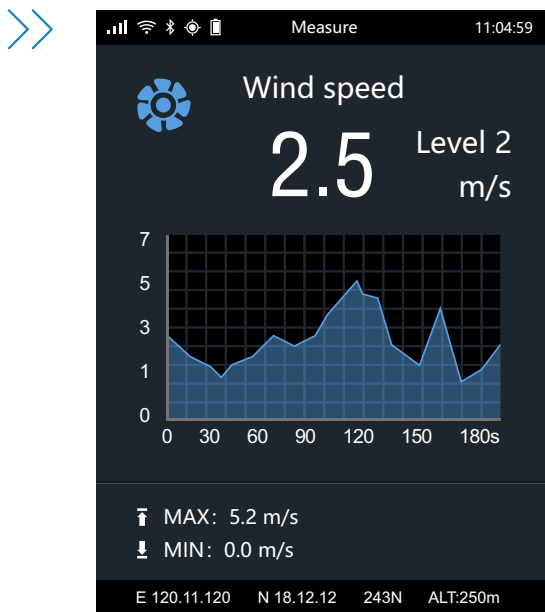
Switch to the humidity measurement interface to display, as follows:



Switch to the barometric pressure measurement interface to display, as follows:



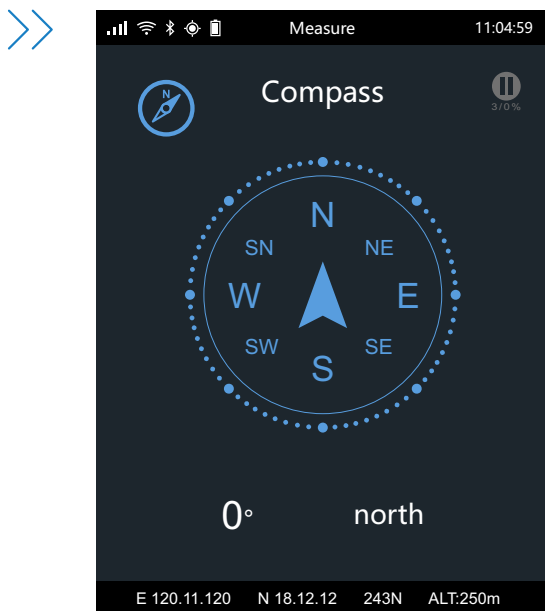
Switch to the wind speed measurement interface to display, as follows:



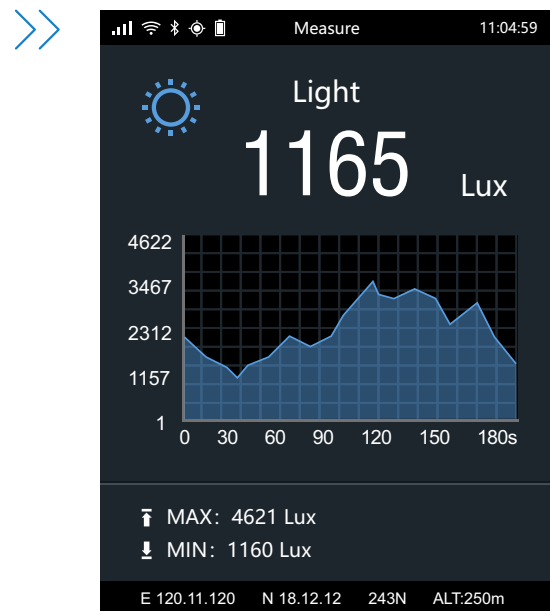
Switch to the wind direction measurement interface to display, as follows:



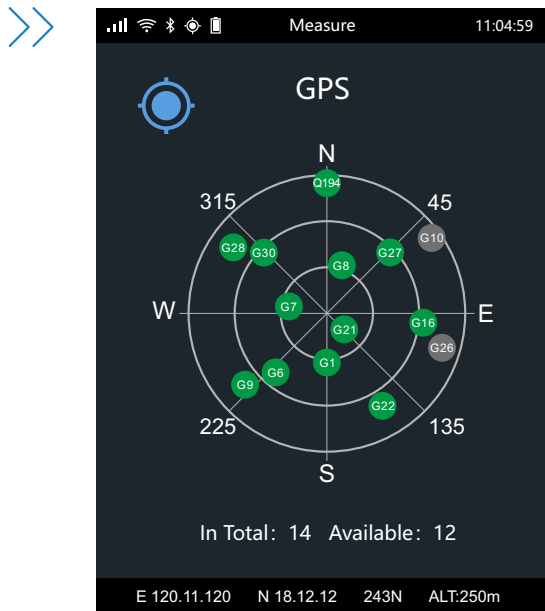
Switch to the compass measurement interface to display, as follows:



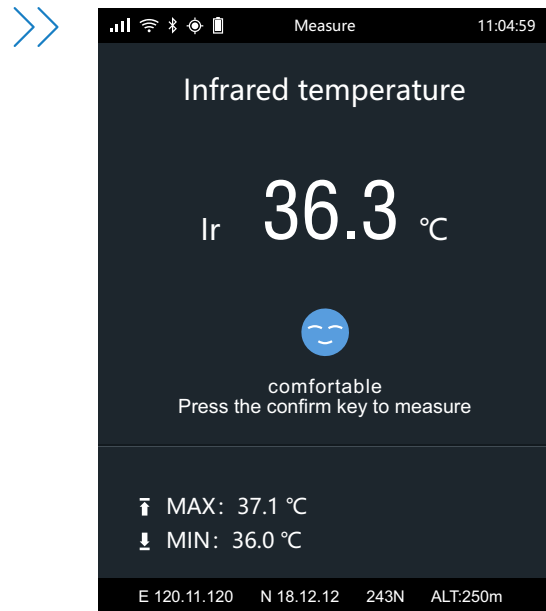
Switch to the light measurement interface to display, as follows:



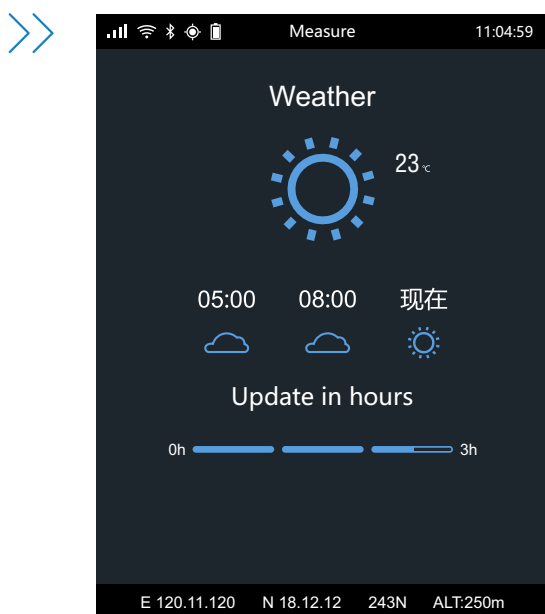
Switch to the GPS star map measurement interface to display, as follows:



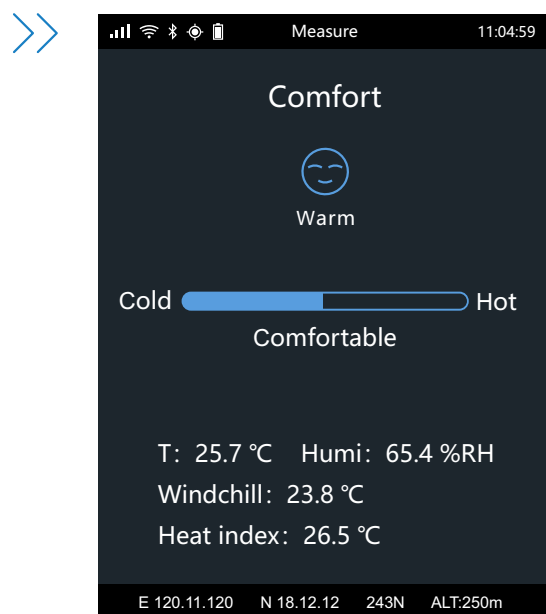
Switch to the infrared temperature measurement interface to display, as follows:



Switch to the weather measurement interface to display, as follows:

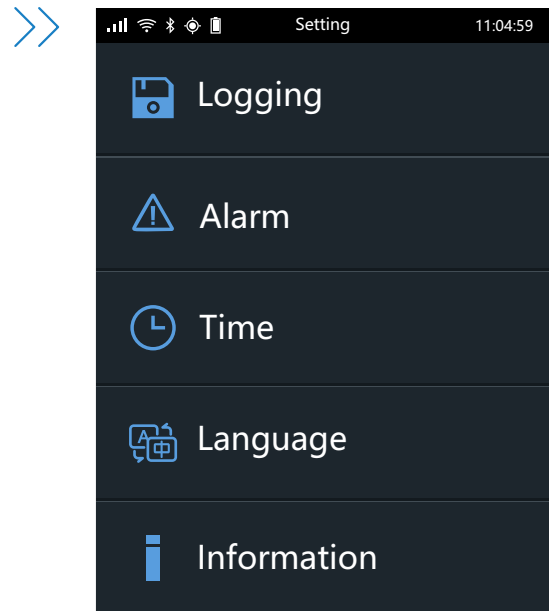
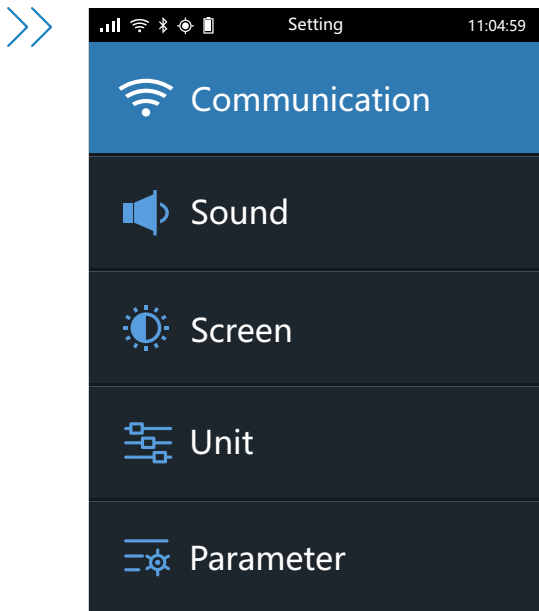


Switch to the comfort index interface to display, as follows:



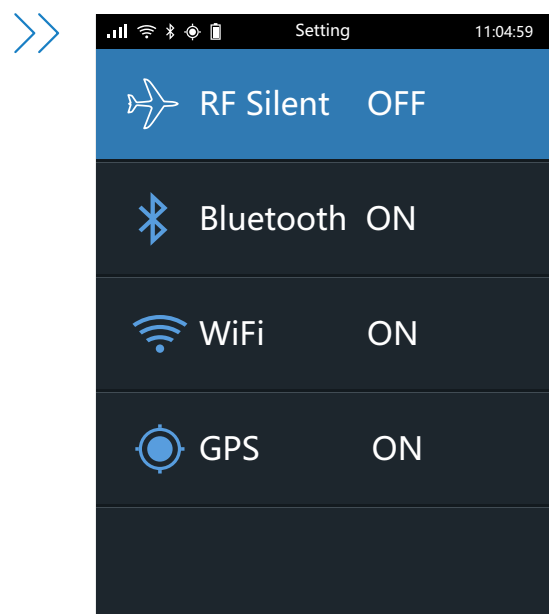
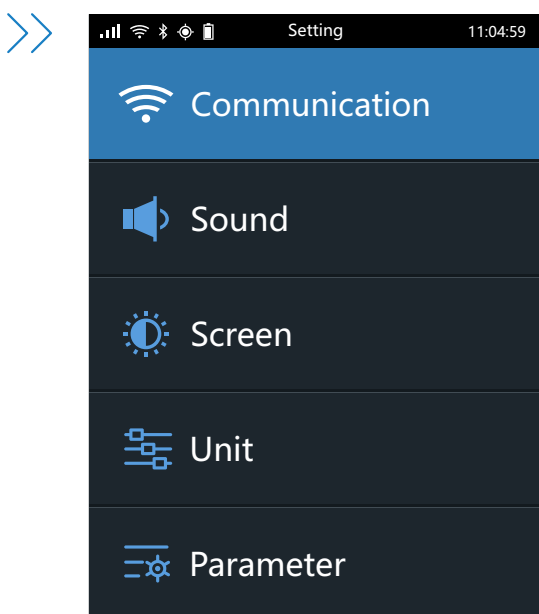
Setting interface

The setting interface includes communication, sound, screen, unit, parameter, record, alarm, clock, language, information, etc. Set the system through key operation.



Information Interface

You can view the detailed information of the product.



HWS1000 · Functional Performance



Compact and Portable

- Compact and portable, pocket-sized and ultra-light design
- The weight of the meter is 168g



Multi-parameter Measurement

- Temperature, humidity, air pressure, wind speed, wind direction, light, UV, infrared temperature measurement, positioning and others
- Scalable to measure rainfall and more meteorological parameters



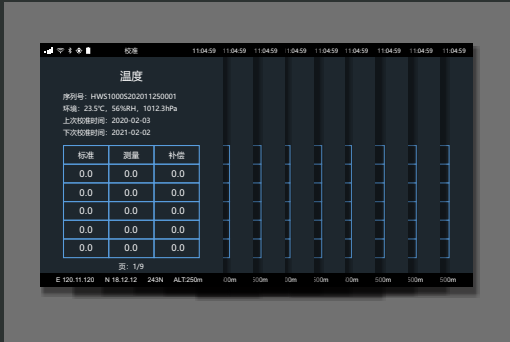
Multiple Satellite Positioning Trajectories

- Beidou Satellite Navigation System (BDS)
- Galileo Satellite Navigation System (GALILEO)
- GLONASS
- QZSS
- SBAS
- GPS



Bright Screen

- 262K color display
- 22.6 "a-Si TFT, 240rgb * 320 resolution
- Remote adjustment the light, the elements are clearly displayed on the screen.



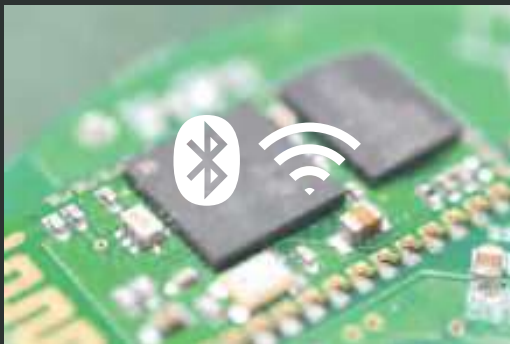
Auxiliary Lighting

- Can be used to illuminate the darker measurement environment as required



Ergonomic Design

- The curvature of the back fits the palm of the hand for a comfortable grip
- Non-slip side design



Wireless Communication

- Support low-power consumption Bluetooth, WiFi communication
- Expandable USB (Type C)



Waterproof and Splash-proof

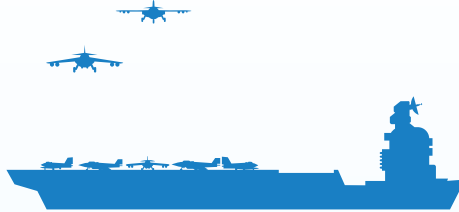
- Unique waterproof and splash-proof structure
- IP65 waterproof rating, spraying on the equipment will not cause damage

HWS1000 · Application Illustrations



Aviation and Navigation

The HWS1000 portable meteorological multi-parameter measurement function brings great meteorological observation convenience to aviation and navigation. It can provide flexible marine meteorological observation methods for various types of ships, and can provide a novel mode for marine meteorological observation.

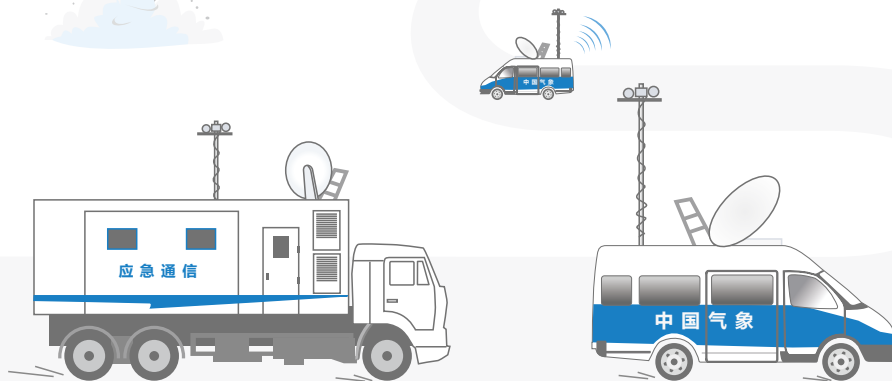
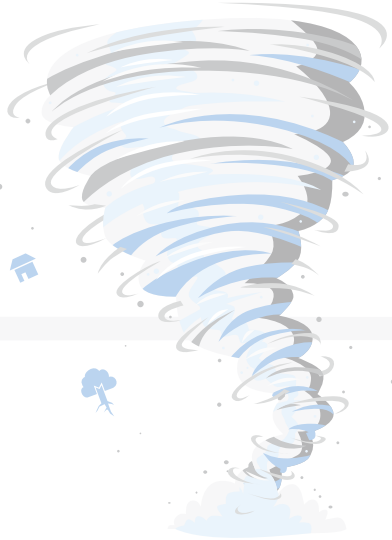


Airdrop

The success probability of airdrops is closely related to meteorological conditions. HWS1000 can quickly measure a number of meteorological parameters, especially the wind speed in the target area, and can quickly calculate the feedback to provide a fast response to the evaluation of the meteorological conditions in the operation area.

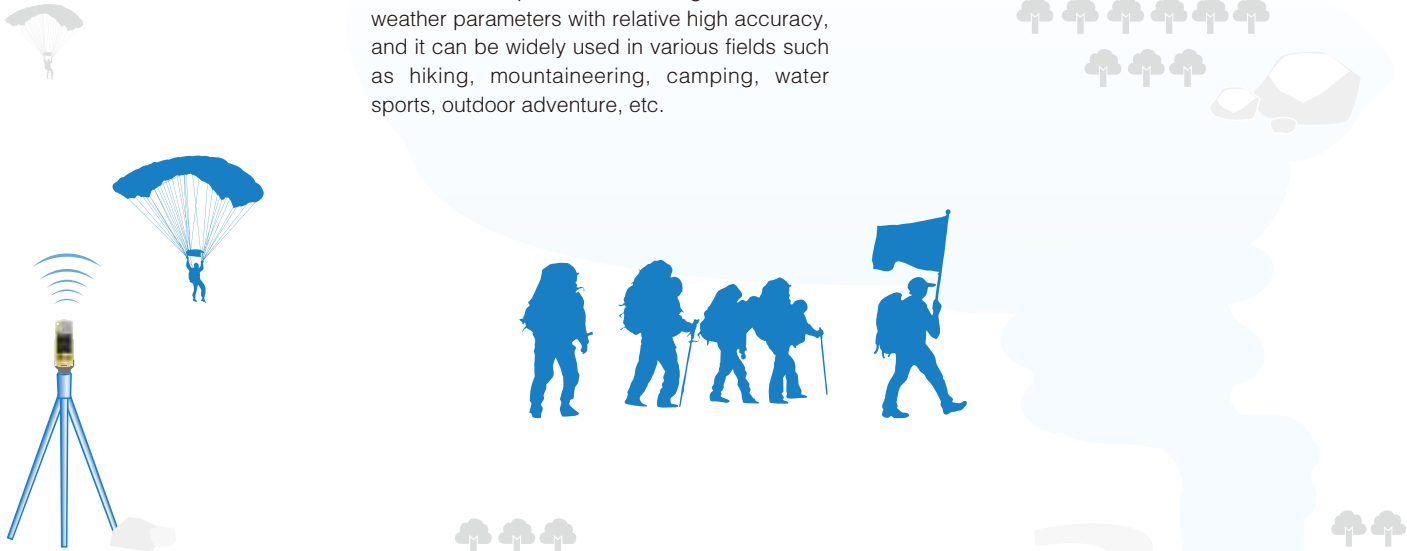
Emergency Rescue

HWS1000 provides a one-stop weather observation solution. It can be applied to on-site monitoring and temporary network deployment of sudden catastrophic weather, and weather sampling when the meteorological emergency vehicle cannot enter the area, providing novel methods for on-site weather observation during flood seasons, early warning and emergency rescue.



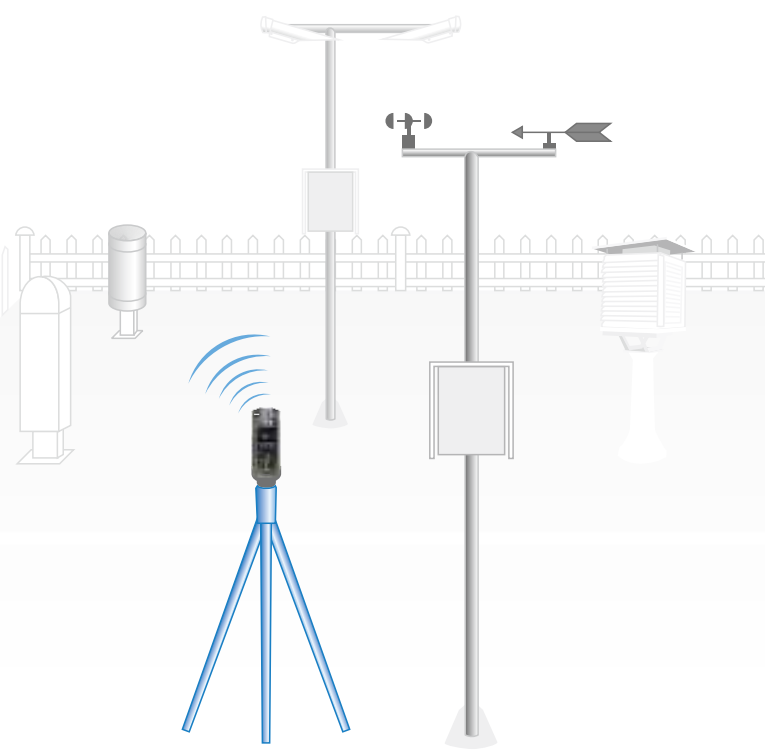
Outdoor Adventure

HWS1000 is capable of measuring conventional weather parameters with relative high accuracy, and it can be widely used in various fields such as hiking, mountaineering, camping, water sports, outdoor adventure, etc.



Mobile Weather Observation

HWS1000 is capable of measuring conventional weather parameters with relative high accuracy. It can be used as an auxiliary observation method other than national meteorological stations and regional stations. At the same time, it can also be used as a weather calibration equipment for radar scanning, laser telemetry, microwave analysis, radiation detection and other systems.



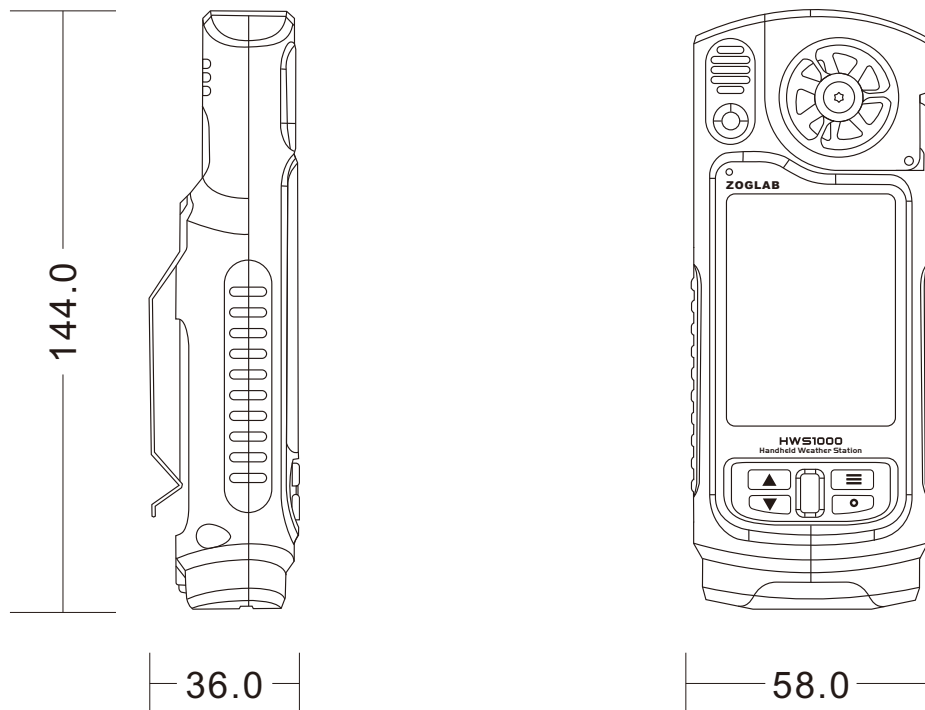
HWS1000 · Technical specifications

Measurement specification	
Temp measurement range	-30°C~70°C, -40°C~80°C(wider range version)
Temp measurement accuracy	±0.3°C, ±0.2°C(5°C~35°C)
Temp resolution	0.1°C
Infrared temperature measuring range	-40°C~85°C
Accuracy of infrared temperature measurement	±0.5°C
Humidity measurement range	0%RH~100%RH
Humidity measurement accuracy	±3%RH(10%RH~90%RH);±5%RH(other range)
Humidity resolution	0.1%RH
Barometric pressure range	300hPa~1100hPa
Barometric pressure accuracy	±0.5hPa
Barometric pressure resolution	0.1hPa
Wind speed range	0~40m/s
Wind speed accuracy	±0.5m/s
Wind speed resolution	0.1m/s
Wind direction range	0~360°
Wind direction accuracy	±4°
Wind direction resolution	1°
Illumination dynamic range	0~128000 lx
Illumination resolution	1 lx
UV index grade	1~11
Measurement wavelength range	280nm~400nm(UV-B & UV-A)
UV intensity	0~400W/m ²
GNSS module signal reception	BDS/GPS/GLONASS/GALILEO/QZSS/SBAS
GNSS positioning accuracy	<2m
GNSS speed measurement accuracy	<0.1 m/s
Cold start TTF	≤35s

General specification

Communication Interface	USB(Type C), WIFI, BT
Charging requirement	5V , 2A max
Waterproof level	IP65
Battery type	Lithium polymer , 3.7V 3800mAh
Battery life	Continuous bright screen working for 24 hours,standby for 200 hours:
Operating environment	-40°C~80°C, 10%RH~95%RH (Non condensing)
Dimensions	144mm×58mm×36mm
Weight	168g
Certificates	CE、FCC、VCCI、C-TICK

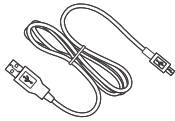
Dimensions (mm)



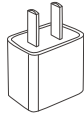
HWS1000 · Accessory part

Packing list

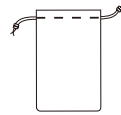
USB cable



Power adapter



Waterproof bag



User manual



Calibration certificate



Quality card



Warranty card



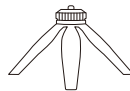
WEEE card



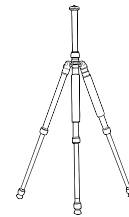
Optional accessories



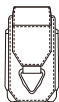
Wind vane



Small tripod



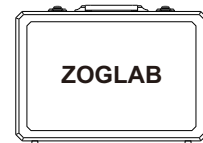
Tripod



Portable waist bog



Storage bag



Portable traveling case

Ordering model

Model	EDU Educational version	LTD Limited version	STD Standard version	PRO Professional version
Temperature, humidity pressure, wind, uv, light	●	●	●	●
Flashlight	●	●	●	●
Compass		●	●	●
Infrared temperature			●	●
GNSS				●

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