

**WY08 Intelligent Gateway** is a multi-functional wireless collector data receiving and processing equipment, supporting up to 64 wireless acquisition terminals; applicable to various environmental monitoring and space verification applications. It can be used as a field data acquisition center to provide data query, data analysis and data curve functions; it can also export data reports; it can also take over the remote alarm function when the continuous monitoring system server is offline.

## Product features

- 7-inch HD capacitive touch.
- Can be separated from the continuous monitoring system to work independently, can view historical data, data curves and data analysis on site under the condition that the continuous monitoring system server is offline, and can provide the functions of short message and WeChat alarm.
- It has its own database, which can store more than 120 million sets of data and support space expansion.
- It can support 4G/Ethernet POE/WIFI/Bluetooth and other connection modes.
- Aviation aluminum alloy shell, sodium silicate glass panel, impact resistance, corrosion resistance, improve long-term stability and reliability.
- The device is equipped with an advanced intelligent operating system and provides a complete audit trail.



## Can be used as standby monitoring system and field interactive equipment

WY08 itself has four core high-speed CPU, NPU, operating system and database management capabilities, and its hardware has a variety of communication and human-computer interaction capabilities, so that it has the ability to replace the continuous monitoring system server.

When the continuous monitoring system server is offline due to failure or maintenance. BRWY08 data gateway can replace some key functions of the continuous monitoring system: WeChat, SMS, telephone alarm; view historical data, data curves, alarm records, etc. Through the human-computer interaction interface. Reduce the risk to a controllable range.

This device can also be used as a local display device for field personnel to handle daily operations and data viewing.

## Can be used as a data backup for the server

WY08 has more than 100 million sets of data cache and can be expanded to 2 billion sets of data, which can be used as on-site backup of server data.

## Rich interfaces

The scalable HDMI display device extends the display content to the large screen, supports audio output to provide on-site alarm voice broadcast, and supports scalable biometric technology (face recognition, voice recognition, fingerprint recognition) to ensure the security and compliance of device data.

## Automatic time synchronization

WY08 has an automatic time synchronization mechanism to keep time synchronization with the server in real time. The server only needs to synchronize with the standard time to keep the whole system synchronized with the standard time.

## Complete operational log and audit trail

The WY08 Data Gateway runs on an intelligent operating system. The system saves complete running logs and audit trails, and provides a complete data flow audit trail mechanism from the acquisition end to the client.

# Technical specifications

## Wireless transmission

Transport protocol	BR-Link wireless ad hoc network transmission
Wireless output power	≤13db (≤20mW)
Open wireless transmission distances	2000m
Typical indoor transmission distances	100m
Antenna	External (Can be equipped with signal extension antenna or rod antenna)
Frequency band	470Mhz
Wireless Maximum Connections	64

## Wired transmission

USB 3.0	2 (One way OTG)
USB 2.0	1

## Data acquisition and storage

Cache size	120,000,000 sets
Buffer type	NOR Flash (NAND Flash)
Continuation order	FIFO/FILO is configurable, depending on the probe configuration

## Environmental parameters

Storage temperature range	-30~70°C
Operating temperature range	-20~60°C
Operating humidity	0-100% non-condensing

## External power supply

Power connector type	DC 5.5x2.1mm
Supply voltage	12V
Supply current	3A
Implementation of standards	GB4943.1-2011 GB/T9254.1-2021 GB17625.1-2012
POE power supply	Support

## Other specifications

Screen type	LCD color screen
Screen size	7 inches
Screen resolution	800x480 Pixel
Audible and visual alarm	Support external connection
4G network	4G All Netcom
Material	Aviation aluminum alloy, sodium silicate glass, toughened glass
Wireless implementation standards	China MIIT Ministry of Industry and Information Technology Announcement No.52 of 2019
Voice interface	3.5mm coaxial audio plug
Ethernet support	10M/100M/1000M POE
WIFI support	2.4G/5GHz
Weight	752g
External supply voltage	12V
External supply current	2A
Installation method	Wall hanging, screws, cable ties

