HZ-FA-8

Acoustic Analysis Engine



Key Feature

- **8 Channels**
- **192 kHz sampling rate**
- **Ethernet communication**
- **Working temperature -30℃ ~ 60℃**
- **IP66**
- **Compact size, easy to install**
- **Eigenvalue alarm mode**
- **AI alarm mode**

With edge computing and reasoning capabilities, the device adopts a high-precision sound acquisition and processing chip, which can achieve multi-channel high-speed sound acquisition and processing at the edge.
Acoustic analysis engine is equipped with rich voiceprint feature analysis function and supports AI algorithm model to achieve sound detection and sound recognition of specific scenes.



Transformer



GIS



Distribution Box



Cable connector



Edge Box

Network Cable

Power cable



Monitor Platform

■ Specification

Model	HZ-FA-8
Industrial	
Power Supply	DC9V ~ 24V (ϕ5.5mm)，POE： 802.3at, Class4
Data Interface	Ethernet 10M/100M/1000M
Working Temperature Range	-30℃ ~ 60 ℃
Protection Class	IP66
Overvoltage Protection	YES
Overcurrent Protection	YES
Anti-reverse connection Protection	YES
Microphone	
SNR	65dB
Freq Response Range	20Hz ~ 130kHz
Sensitivity	-38dBV/Pa
Direction	Omni-directional
General	
Product Size	178mm*110mm*49mm
Product Weight	750g
Sensor Channels	8 channels max.
Sensor Type	External Sensors
Sampling Mode	Synchronized Acquisition
Sampling Frequency	48kHz/96kHz/192kHz
Connector Type	RS485
Internal Storage	64G
Website	YES
Protocol	HTTP, TCP, WebSocket
NTP Server	YES
Modbus	YES
Real Time View	Time Domain, Frequency Domain, Time-Frequency Domain
Application Scenarios	
Work Mode	Characteristic Alarm Mode
	AI Alarm Mode
Alarm Type of Characteristic Mode	Sound Pressure level abnormal, Main Frequency Abnormal, Frequency band energy ratio abnormal, smoothness abnormal
Alarm Type of AI Mode	loose clamps, cooler abnormal sound A, cooler abnormal sound B, heavy overload, short-circuit impact, DC bias magnetism, surface discharge, interstitial discharge, levitation discharge, corona discharge