HZ-FA-36

Fixed Acoustic Imaging Camera

Key Feature

- 64 MEMS microphones
- 2kHz ~ 65kHz detection
- Multiple sources detection
- Real-time sound source localization
- Real-time partial discharge type prediction
- Real-time estimate gas leak rate
- Abnormal Noise Detection
- HTTP / WebSocket

With the increasing popularity of inspection robots, visual and infrared perception can no longer meet the precise diagnostic needs of early hidden dangers in equipment. The HERTZINNO Airborne Miniature Acoustic Camera (HZ-FA-36) is the core component that empowers robots with "auditory" perception capabilities.

Through a built-in 64-MEMS microphone array and advanced beamforming algorithms, it can convert equipment abnormal noises, gas leak ultrasounds, and partial discharge signals—which cannot be directly captured by the human ear—into intuitive color acoustic images in real-time, overlaying them on visible light video streams.

The device is compact and lightweight and can be conveniently integrated into the gimbals of various inspection robots.

This achieves a leap from "passive inspection" to "active diagnosis," leaving hidden dangers such as high-pressure gas leaks and partial discharges in power equipment nowhere to hide, and truly realizing visual and intelligent condition monitoring of equipment.

■ Specification

Model	HZ-FA-36
Acoustic	
Microphones	64 channel MEMS microphones
Acoustic Image Resolution	1920*1080@ 30fps
Dynamic Range of Sensors	-26±1 dBFS (1kHz Sensitivity @1Pa)
Distance	0.3m ~ 50m （1ft - 164ft）
Bandwidth	2kHz ~ 65kHz
Sampling Rate	130kHz
Camera FOV	72°（±3°）
Imaging Frame	30FPS
Focal Length	3.9mm
Microphone Self-diagnosis	YES
General	
Video	H.264
Video Resolution	2592*1944, 1920*1080, 1280*720, 720*480, 640*480
Transmission	Ethernet / HTTP
Power Supply	DC 12V/3A
Protection Level	IP65
Dimension	80mm* 84mm* 40mm
Weight	310g
Working Temperature Range	-20℃ ~ 55 ℃
Storage Temperature Range	-30℃ ~ 70 ℃
Application Scenarios	Partial Discharge Detection Leak Detection Mechanical Noise
Stream Formats	RTSP

■ Dimension