

PRODUCT OVERVIEW

--- ACOUSTIC IMAGER HDS136S150

Handheld industrial acoustic imagers are widely used in various scenarios such as partial discharge of power, gas leakage detection under pressure or vacuum conditions, air tightness detection, abnormal noise location of equipment, etc. The instrument uses microphone array beamforming technology to obtain sound source distribution data, and cooperates with high-definition cameras to collect video images in real time. By integrating sound source distribution data with video images, the changing sound source is dynamically presented on the display screen. It can help on-site inspection personnel quickly locate faults and provide a basis for disposal.



HDS136S150

Features



Support multiple detection

Support gas leakage, partial discharge and mechanical failure



MIC Array

136 digital silicon MIC array



Detection frequency band

Detection frequency band 0kHz--96kHz



Support video shooting and recording

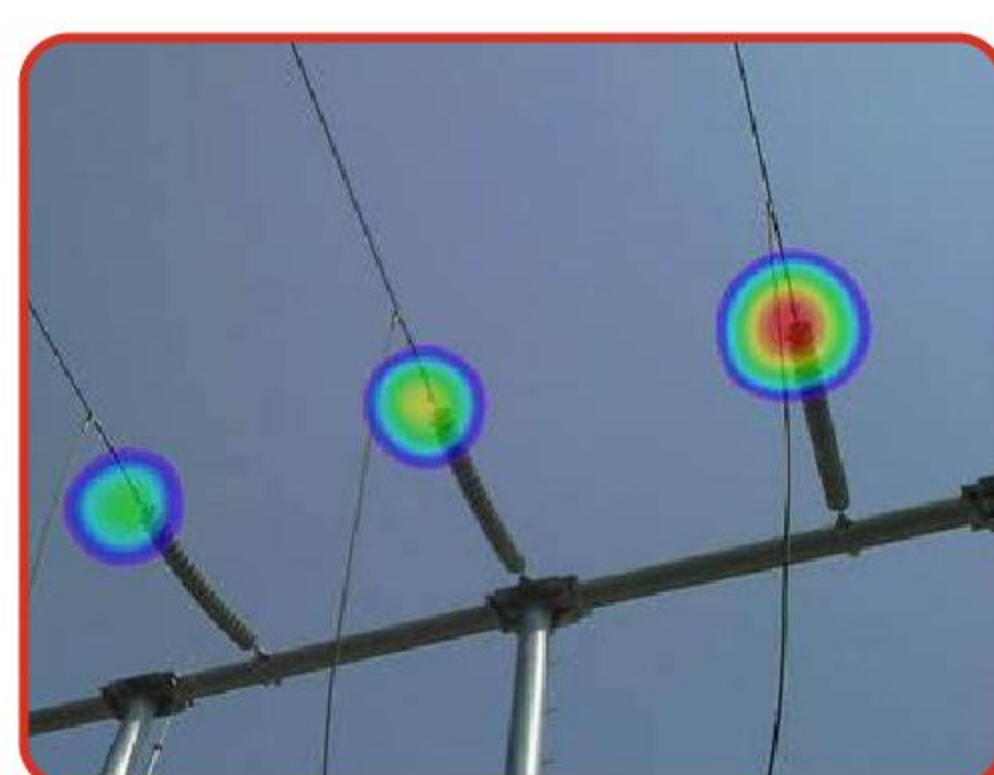
shooting and recording



Detection distance

Detection distance 0.3~150 meters

Application Scenario



electricity



electricity



Valve piping leak detection



Barometer leak detection

It is suitable for power operation and inspection, petroleum and petrochemical, coal mining and metallurgy, rail transportation, traditional, large machinery, high-tech and other manufacturing industries, power, pressurized gas equipment and mechanical fault detection.

TECHNICAL PARAMETERS

Acoustic Imager (HDS136S150)

Acoustic parameters	
microphone	136 digital silicon MIC array
Frequency bandwidth	0kHz~96kHz
distance	0.3~150m
Pseudo-color audio and video mode	White and black, Black and white, Rainbow, Iron red, Red and black, Fusion, Rain, Blue and red
Sound intensity display	Highest point
Acoustic detection mode	Gas leak detection mode, partial discharge detection mode
Audio and videoframe rate	25
Minimum leakage	0.5m, minimum detectable leak of 0.078ml/s at 0.6MPa1m, 0.5MPa minimum detectable leak of 0.122ml/s
Sound intensity range	Lower limit: < -15dB Upper limit: >120dBS
PRPD Spectrum	support
MIC sampling rate	192K
5G	Optional
Gas leakage loss display	support
Gas leakage indicator	support
Gas leakage level display	support
Partial discharge type detection	support
Rules Box	Supports 1 centerrectangularrule box

Visible light

Visible light lens focal length	6.4mm
Field of view	50.2° (H) ×35.4° (V)
Maximum image size	2688×1944
Image resolution	800×480
Video resolution	800×480
Focus Mode	Fixed focus

Image Display

monitor	4.3" LCD capacitive touch screen 800×480
Image Mode	8 pseudo color modes including white-black, black-white, rainbow, iron-red, red-black, fusion, rain, blue-red, etc.

System Features

Bluetooth	support, Bluetooth 4.1
USB	type-C
HDMI	support
Photograph	support
Video	support
Text Annotation	support
Voice Annotation	Support (60s)
Interface language	Chinese
WIFI	support
Image Format	jpeg
storage	64GB
Video Format	mp4
Hardware Interface	TYPE-C
Battery Type	Lithium-ion battery
Battery operating time	2 hours, field replaceable, rechargeable

System Parameters

Shock/vibration	Shock: 25g(GB/T2423.5-2019) Vibration: 20m/s ² (GB/T2423.10-2019)
Electromagnetic compatibility (EMC)	lassB
Operating temperature and humidity	-20°C~50°C, ≤95%
Protection level	IP54
Drop resistance	1.2m
weight	<1.2kg
size	310.4mm*165mm*117mm



红外热像专家

ABOUT HJKIR

Wuhan Huajingkang Optoelectronics Technology Co., Ltd. is located in East Lake High-tech Development Zone, Wuhan City. It is a high-tech enterprise focusing on the research and development and promotion of infrared thermal imager products and applications. It is committed to combining infrared thermal imager products with the Internet of Things + artificial intelligence to achieve highly intelligent and networked products.

The company's team has been engaged in the development and application research of infrared thermal imager products for more than ten years. It is a demonstration base for industry-university-research cooperation of universities such as Huazhong University of Science and Technology and Wuhan University of Technology. It has carried out extensive and in-depth infrared application research with many institutions such as Shenzhen University, Zhejiang University of Chinese Medicine, and the Institute of Respiratory Diseases to explore and realize industrial transformation.

The company has passed the 3A credit rating certification and has the ISO9001 quality management system, high-tech enterprise, dual-soft enterprise and other certifications; the company's products have core intellectual property rights such as invention patents, utility model patents, software copyrights, and have obtained professional certifications such as measurement and testing certificates, explosion-proof certificates, and software product evaluation certification.

The company has a series of products including online infrared thermal imaging thermometer, infrared thermal imaging temperature measurement movement, high-speed and high-frame-rate infrared thermal imager, single-light/dual-light explosion-proof online temperature measurement monitoring system, medical-grade infrared thermal imager, infrared thermal imaging health management system, etc. They are widely used in furnace metallurgy, power grid, petroleum and petrochemical, rail transportation, circuit detection, security monitoring, forest fire prevention, drone pod, handheld observation and aiming, police firefighting, machine vision, scientific research, medical and health care, etc.



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