

KVcam-series

Acoustic Imaging Camera



(KVcam-160 & KVcam-170)



(KVcam-260 & KVcam-270)

ADVANTAGES

- ▶ 64 (128) Low-noise MEMS Microphones array, real-time sound field visualization.
- ▶ Supports widely band, from audible sound to hyperbiosis.
- ▶ 800×480 resolution 5-inch LCD touch screen.
- ▶ High-precision measure distance 0.3 m...100 m.
- ▶ System self-diagnosis program.
- ▶ Supports multiple source detection.
- ▶ 2× digital zoom.
- ▶ Support Partial discharge and air leakage detection.
- ▶ PRPD support*.
- ▶ Gas leakage estimate support*.
- ▶ Partial discharge type intelligent analysis*.
- ▶ Thermal Camera NETD 40 mk (KVcam-260 & KVcam-270).

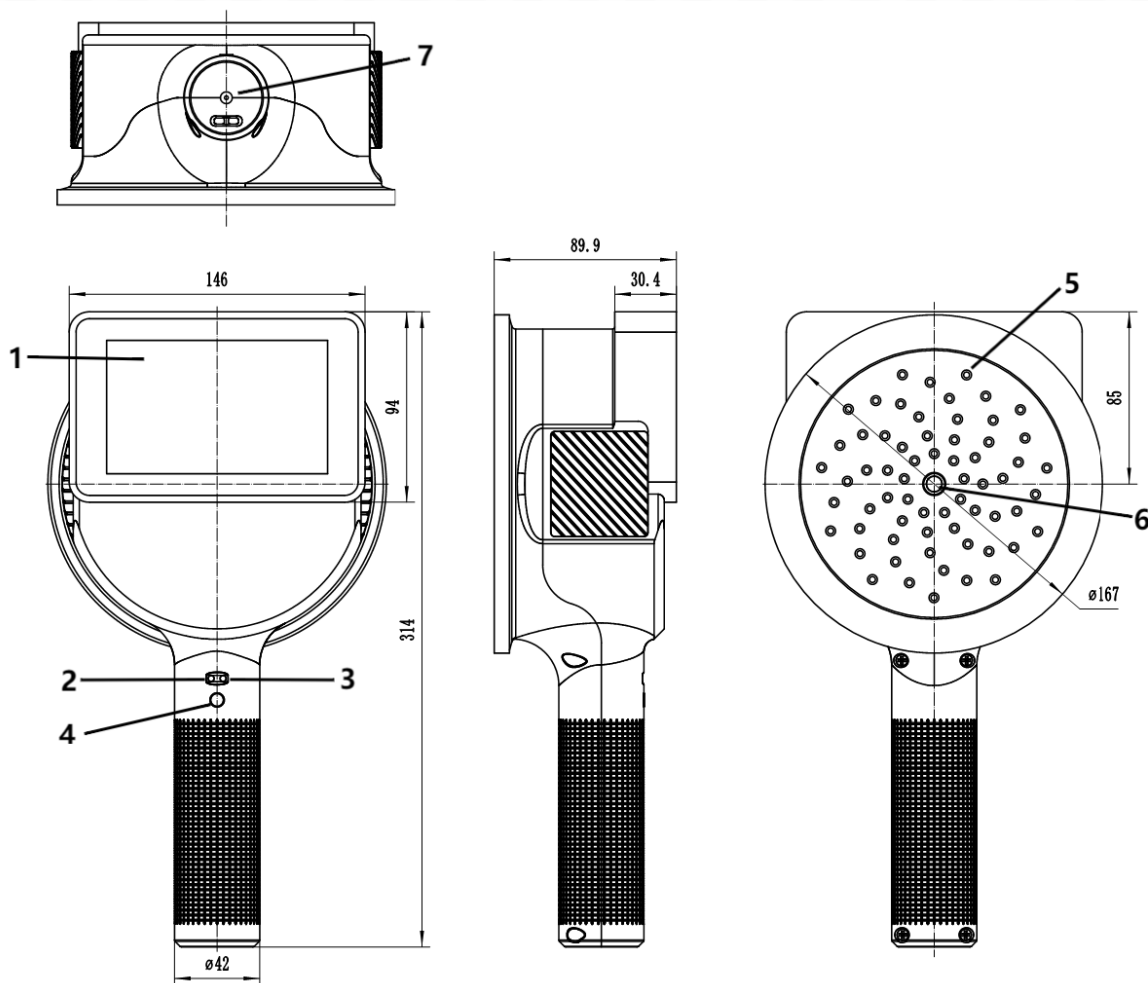
DESCRIPTION

The KVcam-series acoustic imaging camera is a professional product for objects localization and radiation measuring. With MEMS microphones, the acoustic sensor dynamic ranges from 30 dB to 120 dB.

KVcam-series supports audible and ultrasonic frequency bands from 2 kHz to 65 kHz, and can be used for sound source localization, abnormal sound testing, sound source trajectory tracking and positioning.

For steady-state or high transient sound sources, static or moving objects can obtain excellent detection results, and is currently mainly used in pressurized gas leakage detection and partial discharge detection of power equipment. By using a 5-inch touch screen, the results presented on the top of a cloud picture allows you to quickly find the source location.

KVcam-260 & KVcam-270 integrates acoustic and thermal camera, which support switch by software.



1 – LCD display, 2 – Charger indicator, 3 – Working indicator, 4 – Power ON/OFF,
5 – Microphone arrays, 6 – Optical camera, 7 – Charging port.

TECHNICAL SPECIFICATIONS

	KVcam-160	KVcam-170	KVcam-260	KVcam-270
Acoustic				
Microphones (channel MEMS)	64	128	64	128
Acoustic image resolution	800×480			
Dynamic range of sensors	30...120 dB			
Sensitivity	-68 dB	-73 dB	-68 dB	-73 dB
Distance	0.3...100 m			
Bandwidth	2...65 kHz			
Sampling rate	130 kHz			
Camera FOV	64°			
Imaging frame	25 FPS			
Focal length	3.9 mm			
Digital zoom	2×			
Microphone self-diagnosis	supports			
Source visualization	support multiple sources detection			
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General				
Storage internal	64 GB			
Image / Video file format	.png / .avi			
Display	800×480, 5-inch touch screen			
Screen brightness	adjustable			
Wi-Fi	2.4 G / 5 G			
USB	Type-A			
Battery operating time	> 1.5 h (with spare battery > 6.5 h)			
Spare battery	yes			
Power supply	12 V DC			
Protection level	IP51			
Weight	approx. 900 g			
Dimension	342.5×167×89.9 mm			
Working / Storage temperature range	-20...+50 °C / -30...+60 °C			
Humidity	10...85 %			
Annotations	supports			
Application scenarios	partial discharge detection. Air leakage detection			
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Thermal				
Thermal sensor	–		yes	
Thermal resolution	–		384×288	640×288
NETD	–		40 mk	