Handheld acoustic imaging camera

Model: VS138X





Product Appearance

Product Introduction

Handheld acoustic imaging camera is a specialized device for measuring the distribution of acoustic fields within a certain range using an acoustic array.

The position of the acoustic source and the state of radiation intensity are measured and the colour cloud map shows visual acoustic field images, i.e., acoustic imaging measurements.

The detector not only features the sound positioning of traditional acoustic cameras, but also specific partial discharge and compression.

The gas leak scene is analysed for detection.

The instrument supports the audio and ultrasound bands, which can be used for sound source positioning, abnormal sound testing, tracking of acoustic tracks, etc.

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For stable or high transient acoustic sources, static or motion objects can achieve excellent detection effects, which are currently applied mainly to compressed gases

This is the case with the leak detection and the partial discharge test.

Main functions

Soundfield Imaging

Query test

PRPD Mapping

Queue Type Analysis

Infrared thermometry

Laser ranging function

Leak-detection function

Multiplier numeric focus

Argument regulation function

Photography video function

File Analysis

Single Target/Multi-Target Testing

File management function

Upgrade remote systems

Multilingual Switch

Intelligent online/offline analysis

Product characteristics

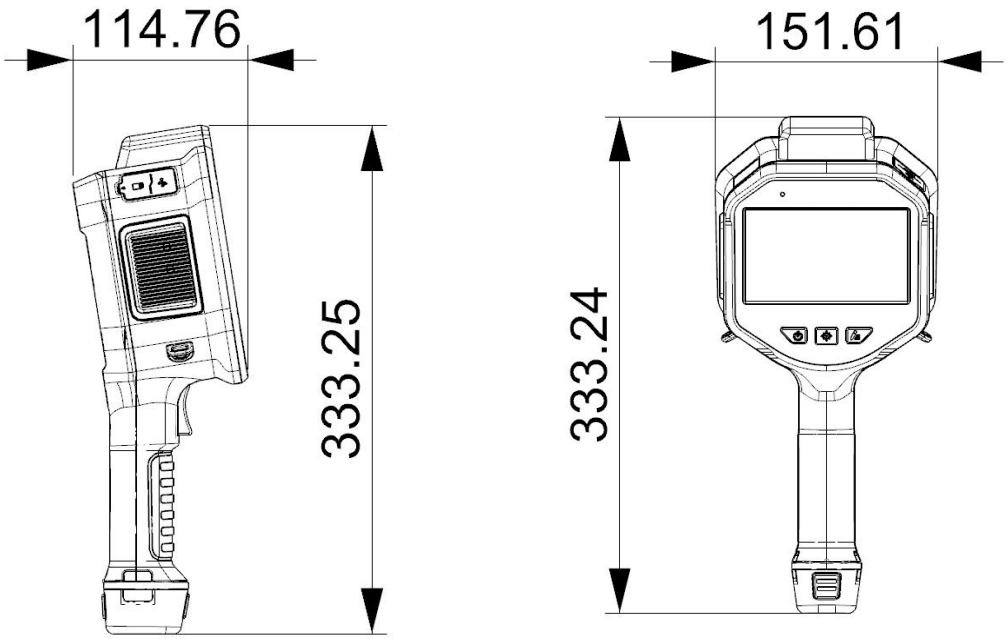
The sonar is designed as one. No additional cameras required.

It's light-looking, hand-held, ready to be used anywhere.

Zero-monitoring bands wide, with audio and ultrasound coverage

The image is fast, stable, ghostless.

Appearance Size



VS138X product appearance

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Technical indicators

Parameter Type	Parameter indicators
Model	VS138X
acoustic imaging Parameters	
Sensor Type	MEMS digital microphone
Sensor sensitivity	-26±1 dBFS
Number of sensors	138 Channel
Frequency range	2kHz~100kHz
Test Distance	0.3m~150m
Image frame rate	30FPS
Scan Precision	≤1°
Position error	≤1cm@1m，40kHz
Sound pressure level measurement sensitivity	10KHz：2dB SPL　20kHz：-5dB SPL　40kHz：-8dB SPL 60kHz：-5dB SPL　80kHz：25dB SPL　100kHz：35dB SPL
Leak measurement sensitivity	≤0.05 L/min@10m，1.2bar
Infrared thermal imaging parameters	
Sensor Type	Non-refrigerant oxidation (VOx)
Detector Resolution	640*512
It's like a dollar size.	12μm
Response band	8~14μm
NETD (noise equivalent temperature difference)	≤40mK(@25°C,F#=1.0)
Temperature range	- 20°C-150°C and 100°C-550°C
Temperature precision	±2°C or ±2% for reading
Space Resolution	0.8mrad
Focal length	15mm
Visual corner	29.3°(H)×23.4°(V),37.5°(D)
Frame Rate	30Hz

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Beijing Garexon Technology Co., Ltd.technical specifications

Measurement and analysis function	
Measurement Mode	Support for station-laying, leak-measurement, isometric mode
Gas leakage estimates	**Support leakage rate and leakage loss estimates**
Set Type Recognition	Support for cutting-edge, along-line, suspension, noise, etc.
PRPD Map	**Supports real-time mapping of PRPD**
Soundprint	**Support spectrum, time spectrum**
Data analysis	**Support analysis and generation of analysis at end of the device**
Distance measurements	**Support high-precision laser ranging**
Temperature Analysis Object	**Supports custom point, line, area, temperature differential measurements**
Temperature alarm.	**Suppo rt**
Visible light camera	
FOV	72°±3°
Focal length	**Fixed Focus 3.9mm**
Pixels	1300W
Image Storage	
Image Resolution	3840*2160； 1920*1080
Video Resolution	1920*1080
Video frame rate	30FPS
Storage capacity	128GB Micro SD card
Document Remarks	**Support text, voice, image, label comments**
Image Display	
Screen Size	**5 in LCD screen**
Screen Resolution	1280*720

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Touch screen type	Capacitive
Screen Brightness Reconciliation	Support manual and automated reconciliation
Digital Focus	Support 1/2/4/8 multiple
Image Frame Rate	30FPS
Soundfield Mode	Supporting acoustic cloud maps and sound source tags
Image range	Support full screen and centre area, area sizes are adjustable
Soundfield Colours	Support for rainbows, iron red, white heat, etc.
Infrared Hypocrisy	Supporting 15 models such as white heat, black heat, integration of 1, rainbow, integration of 2, Iron Red 1, Iron Red 2
Physical and electrical parameters	
Product size	333mm*152mm*115mm
Product weight	< 1.2kg
Battery capacity	≥4500mAh,7.2V
Power adapter	Type-C interface to support PD fast-filling
Charge Method	**USB Type-C or Fill**
SD card interface	Support Micro SD card plug-in, extended capacity
Lighting	Suppo rt
Laser ranging	0.1~20m
Electronic compass	Suppo rt
Button	Triggers, laser ranging, light patches, custom keys
WIFI	IEEE 802.11a/b/g/n/ac 2.4G&5G
Blueto oth	BT 4.2
System Functions	

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Cloud services	**Support data upload to cloud**
Offline analysis	**Support data export to offline analysis software analysis**
System upgrade	**Support local upgrades and OTA upgrades**
File Transfer	Supports the transmission of files via USB, WIFI, Bluetooth
Device hibernation	**Suppo rt**
Audio listening	**Support for listening to audio via Bluetooth headset**
Other	
Working temperature	-20℃~+55℃
Storage temperature	-40℃~+85℃
Work Humidity	**10% ~ 95%, not condensed**
Protection level	**Not less than IP54**
tripod interface	Support UNC 1/4-20 interface to connect tripods
System Language	Support for Chinese, Chinese, English, Russian, Spanish, German, French, Thai, **Italian, Turkish, etc.**
Box list	acoustic imaging camera, Battery x 2 block, Charger, Type-C charger, battery charger, wristband, Type-C U disks, equipment boxes, user manuals, certificates, warranty cards, plant inspection reports

Attention

- **Do not unauthorise or modify the equipment.**
- When there is stain on the surface, soft fabric and neutral detergent can be used to wipe.
- Equipment should be used in a way that avoids crowding and severe shocks.
- Pay attention to the regular clean-up of microphone arrays so as to avoid the dust blocking of sound holes affecting performance.

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