

Dellon SOCAM2000

Video Acoustic Imager

Brief

This instrument is a new type of sound source identification and positioning test equipment for leakage, partial discharge, and abnormal noise. Using high-precision MEMS miniature digital microphone array and high-resolution beamforming technology, it can quickly identify and locate steady-state, transient and moving sound sources.

Through the superimposed imaging method of acoustic images and visible light video images, the distribution of the sound sources in space can be displayed in real time, and the location of equipment leakage, partial discharge, and abnormal noise can be quickly and accurately determined, so as to quickly troubleshoot problems and eliminate hidden dangers.

Product Features

- Non-contact detection at long distances does not affect the normal operation of the equipment and the high voltage insulation spacing.
- It can easily capture leakage, partial discharge, and abnormal noise signals within 0.01 seconds and display them graphically.
- It is suitable for a variety of working conditions, such as gas leakage point search, partial discharge location, vibration source search for noise, bearing abnormal sound auscultation, etc.
- It has the function of frequency band and frequency bandwidth adjustment, strictly filters out the environmental noise, and easily finds the real sound source signal. Measurement data can be transmitted to the upper PC through USB for analysis and management.
- Small size, light weight, easy to carry, integrated shoulder strap, easy to operate, and convenient for single person use.
- Measurement data can be transmitted to the upper PC through USB for analysis and management.
- Fully sealed IP54 dustproof and waterproof design, more suitable for harsh working conditions.
- AC and DC hybrid power supply, built-in rechargeable battery can work continuously > 8 hours.



Pipe leakage



Partial discharge



Valve leakage



Vibration noise

Technical Parameters

Controller					
Display screen	7 inch bright color		Image format	BMP	
Resolution	800×480		Video format	AVI	
Touch screen	Capacitive screen		Digital export	U disk export data through USB3.0	
Output interface	USB3.0, HDMI		Supported language	Chinese, English	
Storage medium	128GB SSD		Controller size	270mm×173mm×97mm	
Microphone sensors		Acoustic imaging		Thermal infrared	
Number of microphones	128 MEMS digital microphones	Pixel	2,000,000/1920X1080	Pixel	640×512
Frequency band	2kHz ~ 90kHz leakage	FOV	68°	FOV	32.9°×26.6°
	2kHz ~ 45kHz partial discharge	Frame rate	25fps	Focal length and frame rate	13mm 25fps
Working distance	0.5m-50m	Focus	Focus	Temperature measurement range accuracy	-20°C~+120°C± 3°C/±3% of range
Battery (replaceable, rechargeable)				Operating environment	
Battery capacity	11.1V 7000MAH			Operating temperature	-10~50°C
Battery charging time	4hours			Storage temperature	-20~70°C
Battery life	More than 2.5 hours Configure mobile power			Relative humidity	Humidity≤85%R.H

Applications



Electric power



Petrochemical



Special inspection



Chemical industry



Gas



Boats and ships