

KUS-200



KUS-100



See the sound and save money

Features

Sonel KUS-100 / 200 acoustic imager is a vital diagnostic tool, allowing significant savings by reducing energy losses. The imager operates in two detection modes: leakage and partial discharge. It has the ability to manually tune the detected frequencies and change the sensitivity level to avoid unwanted reflections and interference.

Comfort of use is improved by a touch screen and a convenient strap mounted to the housing. Thanks to Bluetooth communication, the camera's sounds can be output to an external audio device (speaker or wireless headphones).

Applications

With the help of a **built-in microphone array** (KUS-100: 64 microphones, KUS-200: 136 microphones) the imager effectively detects sources of acoustic emission such as leaks of compressed agents in industrial installations or partial discharges in the power utility industry. It is suitable for use in the following areas:

- diagnostics of high-voltage devices,
- leak detection in gas installations,
- inspection of compressed air systems.

The device **estimates and displays leak rate, level and possible cost** for reference according to the set time unit, unit price, and currency.

Specifications

	KUS-100	KUS-200
Acoustic parameters		
Number of microphones	64	136
Bandwidth	2 kHz...100 kHz	
Distance	0.3 m...100 m 1.0 ft...328 ft	0.3 m...150 m 1.0 ft...492 ft
Camera FOV	51.8° x 36.4°	50.2° x 35.4°
Sound intensity display	Peak Point, Center Point	
Acoustic image frame rate	25 fps	
Signal noise ratio	70 dB	
Acoustic image resolution	800 x 480	
Acoustic image palettes	8	
Leak rate	>0.008 l/min @ 6 bar from 0.5 m 1.64 ft >0.013 l/min @ 5 bar from 1 m 3.28 ft	>0.0047 l/min @ 6 bar from 0.5 m 1.64 ft >0.0073 l/min @ 5 bar from 1 m 3.28 ft
Image display		
Display	800 x 480 px, 4.3" LCD, touchscreen	
Digital zoom	1.0x...8.0x	
Screen brightness	Manual / Auto	
Memory		
Storage media	Removable 64 GB SD card	
Image storage capacity	20 000 images	18 000 images
Video storage capacity	60 hours	
Video file format	MP4	
Annotations	Voice note: max. 60 seconds Text note: max. 200 characters	
Power supply system		
Power supply	5 V DC/ 2 A (charging via USB)	
Battery type	Dismountable and rechargeable Li-Ion battery	
Battery operating time	Approx. 3.5 hours	
Battery charging time	5 hours to full charge	
Communication		
Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)	
USB interface	USB Type-C	
HDMI interface	HDMI-D	
Environmental conditions		
Protection level	IP40	
Operating temperature	-20°C...50°C -4°F...122°F	
Storage temperature	-20°C...60°C -4°F...140°F	
Relative humidity	<95% without condensation	
Drop test height	1.2 m 3.94 ft	
Safety	IEC 61010-1	
EMC	EN 55032, EN 50130-4, EN IEC 61000-3-2, EN 61000-3-3	
Weight	Approx. 940 g 2.07 lb	
Dimensions	292 x 127 x 111 mm 11.5" x 5.0" x 4.4"	
Tripod mounting	UNC ¼"-20	

Standard accessories



3x Li-Ion battery
3.6 V 6.23 Ah
WAAKU32



Z-35 power supply
WAZASZ35



Z-36 external battery charger
WAZASZ36



Wristband
WAPOZPAS7



USB cable type C
WAPRZUSBC



HDMI micro cable
WAPRZMIKROHDMI



XL-15 hard carrying case
WAWALXL15



Declaration of verification

