



See the sound and save money

Features

Sonel KUS-100 acoustic imager, with the help of a **built-in microphone array**, 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 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.

Specifications

Acoustic parameters

Number of microphones	64
Bandwidth	2 kHz...65 kHz
Distance	0.3 m...100 m 1.0 ft...328 ft
Camera FOV	51.8° x 36.4°
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

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
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



Microphone cover
WAPOZOSL6



3x Li-Ion battery
3.6 V 6.23 Ah
WAAKU32



Z-35 power supply
WAZASZ35



Z-36 external battery charger
WAZASZ36



Wristband
WAPOZPAS7



XL-15 hard carrying case
WAWALXL15



USB cable type C
WAPRZUSBC



HDMI micro cable
WAPRZMIKROHDMI



Factory calibration certificate