



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

Number of microphones	64
Bandwidth	2 kHz...60 kHz
Distance	0.3...100 m
Acoustic image palette	8: White Black, Black White, Rainbow, Fusion, Ironbow, Red Black, Rain, Blue Red
Acoustic image frame rate	25 fps
Signal noise ratio	70 dB
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)
Optical module	
FOV	51.8°(H) x 36.4°(V)
Focal length	6.4 mm
Image resolution	800 x 480 px
Built-in optical camera	2688 x 1944 px (5 MPix)
Image display	
Display	800 x 480 px, 4.3" LCD, touchscreen
Digital zoom	1.0...8.0
Screen brightness	Manual / Auto
Memory	
Storage media	Removable SD card (64 GB) Max storage capacity: 128 GB
Image storage capacity	20 000 images
Video storage capacity	60 hours
Video file format	MP4
Voice note	Max. 60 seconds
Text note	Max. 200 characters
Power supply system	
Power supply	12 V DC / 1.5 A 5 V DC / 2 A (charging via USB)
Power consumption	5.8 W
Battery type	Replaceable lithium-ion rechargeable battery
Battery operating time	3.5 hours of continuous operation
Battery charging time	4 hours
Battery charging system	Two-chamber battery charger or in-device charging, fast charging
Power supply	100...240 V AC, 50/60 Hz
General information	
Operating temperature	-20°C...50°C
Storage temperature	-20°C...60°C
Humidity	<95% without condensation
Ingress protection	IP40
Drop test height	1.2 m
Interface	USB-C
Weight	940 g
Dimensions	292 x 127 x 111 mm
Tripod mounting	¼" thread
Wi-Fi	802.11 b/g/n (2.4 GHz and 5 GHz)
HDMI	HDMI-D

Standard accessories

Microphone cover	WAP0ZOSL6
Li-ion battery 3.6 V 6.23 Ah	WAAKU32
Z-35 Power supply	WAZASZ35
Z-36 External battery charger	WAZASZ36
Wristband	WAP0ZPAS7
XL-15 Hard carrying case	WAWALXL15
USB cable type C	WAPRZUSBC
HDMI micro cable	WAPRZMIKROHDMI
Factory calibration certificate	