



LKS 1000

Leakshooter camera - Ultrasonic compressed air, gaz and vacuum leak detector with camera

Find out about a unique tool to Hear, See, Measure and Shoot leaks ! The LEAKSHOOTER LKS 1000 totally renews the way to detect air leaks, vacuum leaks and electrical faults !

Description

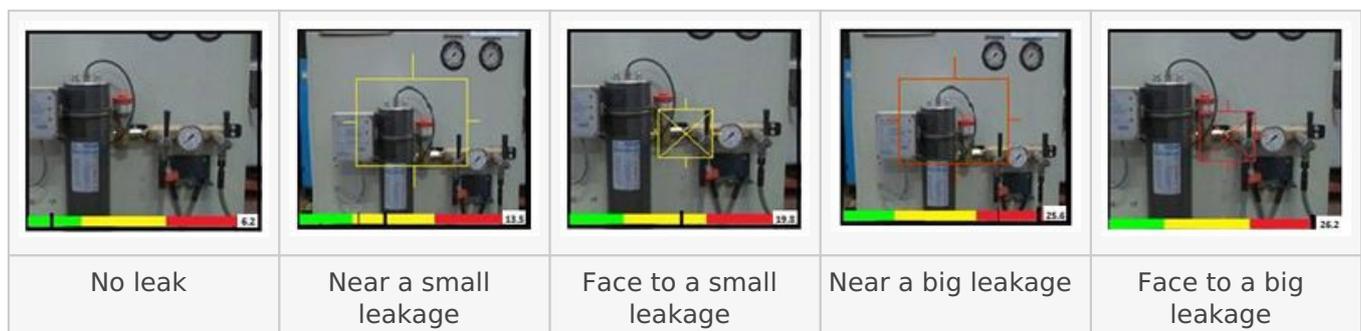
Compressed air is a costly form of energy and 20 to 40% of it is lost through leaks. Systematically checking for and eliminating leaks can therefore bring considerable energy savings.

Film, view and photograph the precise spot where compressed air, steam, pressurised gas and vacuums are leaking using the LEAKSHOOTER LKS1000 V.2.

No more need to spend hours with headphones on ears to try to locate leaks. As with infrared thermometry, check your network with LEAKSHOOTER:

- Embedded camera on reception cone
- Adjustable gain from 50 dB to 110 dB for use in any kind of surroundings
- Rechargeable Lithium-Ion battery with 5-6 hour operation time
- 40 kHz internal ultrasound sensor, frequency adjustable from 34 kHz to 46 kHz for smallest leaks
- Sound bandwidth of 2.5 kHz with stereo headphones
- User mode without camera (energy saving)
- Continuous measurement of dB, RMS and MAX, displayed on colour bargraph
- Dynamic real-time targeting showing the exact location of the ultrasonic source
- BMP pictures (1,000 to store), with USB connexion for upload on PC

Extremely sensitive, it is capable of finding all leaks, even the smallest, including those no bigger than the size of a syringe needle, at a distance of 15 metres. Leaks can be detected in all types of industrial environment thanks to the possibility of adjusting the gain on the device to filter out all undesirable noise.



The LEAKSHOOTER LKS1000 V.2 is used like a camera. When it comes near a leak, a dynamic yellow target appears on the large colour screen. The target turns red and shrinks as it approaches the source of the leak. A bar graph at the bottom of the screen accompanies and facilitates the search.

When the device is facing the leak, a cross appears in the centre of the target. It is then possible to photograph and save the precise location of the leak.

For multiple industrial applications:

- Air leak
- Leakage of gas under pressure (oxygen, argon, nitrogen...)
- Vacuum leak (depressurized gas)
- Test of steam traps (optional accessory)
- Fault detection on bearings (optional accessory)
- Electrical default detection such as corona effect, partial discharges due to bad contacts, surface arc tracking caused by pollution...
- Sealing default detection (sound transparency) with ultrasound transmitter

Each photo is numbered, dated and timed and shows the dB RMS level of the leak. The photos can be uploaded directly onto a PC via a USB cable (supplied), ready to be attached to inspection reports.

It is still possible, whilst visually searching for a leak, to use the traditional method of leak detection, listening for the hissing sound of the leak using the professional headphones also supplied, which can be plugged directly into the device.

Various accessories are available for the LEAKSHOOTER LKS1000 V.2 enabling it to be used for other applications as well as leak detection:

Detection in hard to reach areas with sensor :
LKSFLEX, Flexible probe 400 mm long
LKSFLEX1500, Flexible probe 1500 mm long

For Steam trap control :
LKSPROBE, Mechanical US Sensor

Tightness and sealing control :
LKSDOME, Ultrasonic emitter with 13 emitters

Carrying bag :
LKSCOVER, Holster

Specifications

Sensors

Type	Internal ultrasound sensor 40 kHz (± 1 kHz) integrated into reception cone
Bandwidth	± 2.5 kHz
Measurement range	34 kHz to 46 kHz
Sensitivity	-65 dB (0 dB = 1 Volt/ μ bar) Detects a leak of 0.1 mm diameter over 3 bar at about 20 m
Gain	Adjustable from 50 dB to 110 dB for use in any kind of surroundings
Dynamics	>100 dB (gain and sound to be adjusted separately)
Type	Embedded camera into reception cone
Analysis	RMS and MAX RMS values displayed in real-time Real-time automatic targeting
Energy saving	User mode with camera off

Inputs / Outputs

Types	1 audio jack output (heterodyne signal over 0-2.5 kHz) 1 jack input for deported sensor
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General specifications

Size	230 x 100 x 70 mm
Weight	580 g for LKS 1000 3.9 kg with case and accessories
Display	LCD TFT 3.5" display with video visualization of surroundings and leak localization
Battery	Type: Rechargeable Lithium-Ion battery Lifetime: 5-6 hours
Communication ports	USB
Storage capacity	1000 pictures (JPEG) with date and time

Environmental specifications

Operating reference range	-10 to 50°C
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IP protection	IP54 according to EN60529
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Safety specifications

EMC conformity	CEM 2004/108/CE: EN61000-6-4 & EN61000-6-2
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Models and accessories

Instrument:

LKS 1000 Caméra de détection ultrasonore Leakshooter
Delivered in standard with:

- LKS case, Aluminium transport case
- LKS ear, pro stereo headphones, noise isolating, with jack connector (SNR 31)
- LKS power, universal charger for internal battery
- LKS USB, USB cable for PC
- LKS PC viewer, PC software on CD for Windows XP/Vista/7
- User manual

Accessories:

LKS Contact Contact probe
LKS CF400 Deported flexible sniffer (for places difficult to reach)
LKS Cover Transport case

Packing information:

Size 230 x 100 x 70 mm
Weight 590 g for LKS 1000
3.9 kg with transport case and accessories