



## LKS 1000

Leakshooter camera

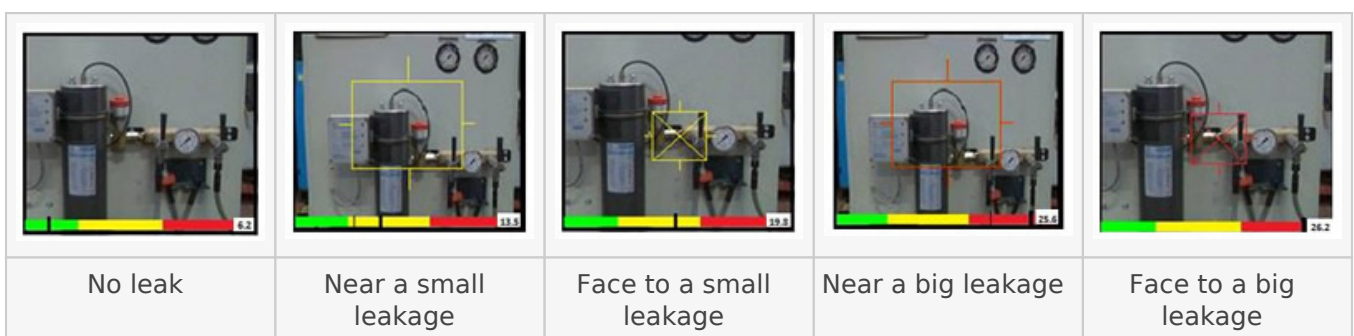
Find out about a unique tool to Hear, See, Measure and Shoot leaks!

## Description

The LEAKSHOOTER LKS 1000 totally renews the way to detect air leaks, vacuum leaks and electrical faults ! 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
- JPEG pictures (1,000 to store), with USB connexion for upload on PC

When approaching a leak, the large color display shows a dynamic yellow target that turns into red and gets smaller as it gets closer to the leak. Once the leak is precisely targeted, a cross appears at the center of the target. It is possible to shoot picture of the location and store it into JPEG format. Every picture contains date, time, dB level and can be numbered manually.



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

# Specifications

## Sensors

<b>Type</b>	Internal ultrasound sensor 40 kHz ( $\pm 1$ kHz) integrated into reception cone
Bandwidth	$\pm 2.5$ kHz
Measurement range	34 kHz to 46 kHz
Sensitivity	-65 dB (0 dB = 1 Volt/ $\mu$ 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)
<b>Type</b>	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

<b>Types</b>	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
IP protection	IP54 according to EN60529

## 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