



SYNERGYS TECHNOLOGIES



LEAKSHOOTER

**METZIN**  
www.metzin.com

LEAKSHOOTER / LKS1000

# IS THE FIRST CAMERA TO DETECT MEASURE AND SHOOT COMPRESSED AIR AND GAS LEAKS

**COMPRESSED AIR IS AN  
EXPENSIVE ENERGY**  
20 TO 40 % IS LOST IN LEAKS

## WHY IS THE LEAKSHOOTER LKS 1000 THE BEST ULTRASONIC LEAK DETECTOR ?

- The possibility of ultrasonic detection with a visible image, whilst listening to the noise made by the leaks, is a unique patented technology of SYNERGYS TECHNOLOGIES.

For the first time it is possible to see on a large LCD screen the precise location of compressed air and gas leaks, vacuum leaks, thanks to a dynamic target which varies in size and colour, from yellow to red, depending on the severity of the problem.

- The possibility to make a photograph of the leak location, to store it and then to download it on to a PC, makes the job of the maintenance team much easier.

The pictures are in JPEG format, they show date, time, dB level and can be numbered manually. Up to 1000 pictures can be stored in the LEAKSHOOTER's memory.

With this function the ultrasonic inspection can be documented just like infrared thermography.

- The leaks can be found even without using the headphones.
- Continuous displaying of the dB RMS and MAX on a colour bargraph.



- Great detection sensitivity thanks to the built-in long range module.
- Adjustable gain from 50 dB to 110 dB for the adaptation to the noise environment.
- With the 400 mm ultrasonic flexible probe, LKS FLEX, which can be bent to odd angles, the LEAKSHOOTER LKS 1000 detects leaks in hard to reach areas.
- With the ultrasonic contact probe, LKS PROBE, the LEAKSHOOTER LKS1000 makes steam trap inspection and bearing monitoring easy.

## APPLICATIONS

- Compressed air and gas leaks
- Vacuum leaks
- Steam trap inspection
- Bearing and valve inspection
- Electric discharges, tracking and corona detection



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## SPECIFICATIONS

Sensitivity	Detects a leak of 0,1 mm at 3 bars at 20 m
Camera	Colour 640 x 480 pixels
Display	LCD colour 3,5" 320 x 240 pixels
Pictures	JPEG, number, date and time
Dynamic target	Red square with cross on strong leak Yellow square with cross on light leak
Measurements	dB RMS and MAX
Memory	Up to 1000 pictures, can be downloaded to PC
Communication	USB cable supplied
US sensor	Open type • Bandwidth $\pm 2$ kHz to -6 dB • Central frequency 40 kHz $\pm 1$ kHz • Adjustable frequency mixer from 34 to 46 kHz • Auto gain, and adjustable from 50 to 110 dB
Headphones	Adjustable volume from 0 to 10
Power supply	Lithium-ion rechargeable battery
Autonomy	6 hours
Temperature range	-10°C to +50°C
Dimensions	230 x 100 x 70 mm
Weight	580 gr for the LKS1000 ; 3,9 kg including metallic case
Software	LEAKVIEWER picture download
CE Standards	CEM 2004/108/CE : EN61000-6-4 & EN61000-6-2
Accessories	<ul style="list-style-type: none"> <li>• LKSFLEX Flexible 400 mm US sensor</li> <li>• LKSPROBE Mechanical US sensor</li> <li>• LKSPROBE Holster</li> </ul>



See and hear the leak



Localize the leak with the dynamic target



Picture of air leak localization



Picture of HV electric phenomenon

## LEAKVIEWER

Report software



Flexible 400 mm US Sensor LKSFLEX



Holster LKSCOVER

Mechanical US sensor LKSPROBE  
(steam-trap - bearing)



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