



LKS  
1000  
**V2+**

[www.synergys-technologies.com](http://www.synergys-technologies.com)

# LEAKSHOOTER® LKS1000-V2+

## Ultrasonic compressed air, gas and vacuum leak detector with camera.

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-V2+.

The LEAKSHOOTER® LKS1000-V2+ is a sophisticated tool. 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 20 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-V2+ is used like a camera. When it comes near a leak, a dynamic white target appears on the large colour screen. The target 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 around the centre of the target. It is then possible to photograph and save the precise location of the leak.



APPROXIMATE SEVERITY OF  
**LEAK & FLOW & COST**  
(0-10) (m<sup>3</sup>/h) (€, \$, £)

VERY SMALL

SMALL

MEDIUM

BIG

VERY BIG



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-V2+ enabling it to be used for other applications as well as leak detection.



Detection in hard to reach areas with sensor:  
LKS FLEX – Flexible probe 400mm long  
LKS FLEX1500 – Flexible probe 1500 mm long



For Steam trap control:  
LKSPROBE  
Mechanical US Sensor



Tightness and sealing control:  
LKSDOME  
Ultrasonic emitter with 13 emitters



Listening:  
LKS HEAD – Bluetooth Headphones



Listening:  
LKSSPEAKER  
Bluetooth Speaker

# ACCESSORIES



**Bluetooth**



**Speaker**  
(optional)



**Headphones**  
(optional)



**COMPRESSED AIR LEAK  
DETECTION**



**COMPRESSED AIR LEAK  
DETECTION**



**STEAM TRAP  
INSPECTION**



**CORONA, PARTIAL  
DISCHARGE DETECTION**



**VACUUM LEAK  
DETECTION**



## SPECIFICATIONS LKS1000-V2+

Sensitivity	Detects a leak of 0,1 mm at 3 bars at 20 m
Camera	Colour 640 x 480 pixels + LED lighting
Display	LCD colour 5.7" 640 x 480 pixels
Pictures	BMP, number, name, date and time
Dynamic target	White circle for leak detection Colored circle with cross for the leak severity
Measurements	dB RMS and MAX RMS
Memory	Up to 1000 pictures, can be uploaded 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 30 to 50 kHz - Adjustable gain from 40 to 120 dB
Headphones	Adjustable volume
Power supply	Nickel-metal hybride (NiMH)
Autonomy	6 hours
Temperature range	- 10°C to + 50°C
Dimensions	H : 310 mm - W : 165 mm - D : 65 mm
Weight	700 gr for the LKS1000 3,8 kg including ABS case
CE Standards	CEM 2004/108/CE : EN61000-6-4 & EN61000-6-2
Accessories	<ul style="list-style-type: none"><li>• Ultrasonic emitter Reference : LKSDOME</li><li>• Flexible 400 mm US Sensor Reference : LKSFLEX</li><li>• Flexible 1500 mm US Sensor Reference : LKSFLEX1500</li><li>• Mechanical US sensor (steam trap - bearing) Reference : LKSPROBE</li><li>• Bluetooth headphones Reference : LKSHEAD</li><li>• Bluetooth Speaker Reference : LKSSPEAKER</li></ul>



**SYNERGYS**  
TECHNOLOGIES

LEAKSHOOTER® a SYNERGYS  
TECHNOLOGIES innovation

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