



LKS
1000
V2+IR

**WITH
INFRARED
CAMERA**

www.synergys-technologies.com

www.scv-sa.ch

LEAKSHOOTER® LKS1000-V2+IR

Ultrasonic compressed air, gas and vacuum leak detection camera and thermal imager (IR)

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+IR.

The LEAKSHOOTER® LKS1000-V2+IR 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+IR 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) (m³/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.

Embedded thermal IR camera (-10°C > +400°C) for T° analysis with Min.-Max.-Center cursors in full screen.

Various accessories are available for the LEAKSHOOTER® LKS1000-V2+IR 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

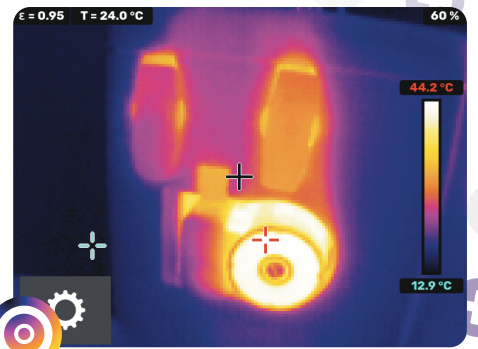


Listening:
LKS HEAD – Bluetooth Headphones



Listening:
LKSSPEAKER
Bluetooth Speaker

ACCESSORIES



Thermal Camera
 (160 x 120 pixels)
 Min. - Max. - Central cursors
 3 colors palettes



Bluetooth



Speaker
 (optional)



Headphones
 (optional)



— **Photos** (Leaks - Thermal)
 — **CSV** data file for reporting

**COMPRESSED AIR LEAK
 DETECTION**



**COMPRESSED AIR LEAK
 DETECTION**



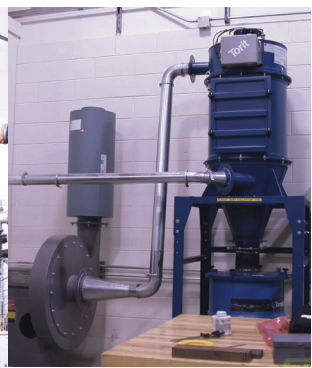
**STEAM TRAP
 INSPECTION**



**CORONA, PARTIAL
 DISCHARGE DETECTION**



**VACUUM LEAK
 DETECTION**



SPECIFICATIONS LKS1000-V2+IR

Sensitivity	Detects a leak of 0,1 mm at 3 bars at 20 m	
Camera	Colour 640 x 480 pixels + LED lighting	
Thermal camera	FLIR LEPTON 160 x 120 px (-10°C to +400°C), adjustable emissivity ϵ , sensitivity < 50 mK, frame rate 9 Hz	
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 & T° (°C or °F) - Min. - Max. - Center	
Memory	Up to 1000 pictures, can be uploaded to PC (leaks and thermal)	
Data export	CSV file with all leaks data for report editing	
Communication	USB cable supplied	
US sensor	Open type - Bandwidth ± 2 kHz to - 6 dB - Central frequency 40 kHz ± 1 kHz - Adjustable frequency mixer from 30 to 50 kHz - Adjustable gain from 40 to 106 dB	
Headphones	Adjustable volume	
Power supply	Nickel-metal hybride (NiMH)	
Autonomy	About 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	CE Standards : EMC 2014/30/UE : EN61000-6-4 & EN61000-6-2	
Accessories	<ul style="list-style-type: none"> • Ultrasonic emitter • Flexible 400 mm US Sensor • Flexible 1500 mm US Sensor • Mechanical US sensor (steam trap - bearing) • Bluetooth headphones • Bluetooth Speaker 	<ul style="list-style-type: none"> Reference : LKSDOME Reference : LKSFLEX Reference : LKSFLEX1500 Reference : LKSPROBE Reference : LKSHEAD Reference : LKSSPEAKER



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LEAKSHOOTER® a SYNERGYS
TECHNOLOGIES innovation

Quartier Plessier - 39, avenue du 8^e Régiment de Hussards
BP 30109 - 68132 ALTKIRCH CEDEX - FRANCE
Tél. +33 (0)3 89 08 32 72 / Fax +33 (0)3 89 08 32 73
info@synergys-technologies.com
www.synergys-technologies.com

SCV SA

Energiekosten sparen
Réduire vos dépenses énergétiques

Rue de l'Hôpital 49, 3280 Meyriez/Murten (Morat)
Tel. 026 672 90 50, Fax 026 672 90 55
info@scv-sa.ch, www.scv-sa.ch