

LEAKSHOOTER®
LEAK DETECTION CAMERA



LKS
1000
V2+
V2+IR
V3+PRO



APPROXIMATE SEVERITY OF
LEAK & FLOW & COST
(0-10) (m³/h) (Pt \$, £)



VERY SMALL

SMALL

MEDIUM

BIG

VERY BIG



LEAKSHOOTER® LKS1000-V2+

Ultrasonic compressed air, gas, vacuum, leak detector with camera

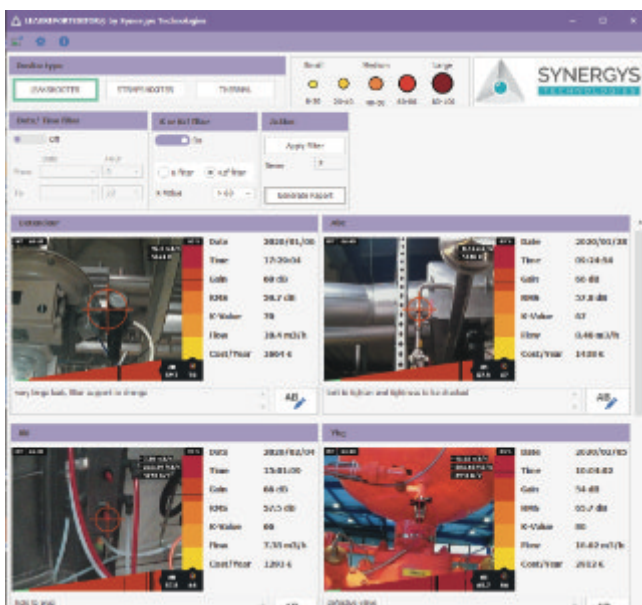
Film, view and photograph the precise spot where compressed air, steam, pressurised gas and vacuums are leaking using the LEAKSHOOTER® LKS1000-V2+.

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 a 20 meters. Leaks can be detected in all types of industrial environment.

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 bargraph at the bottom of the screen accompanies and facilitates the search.

It is possible to photograph and save the precise location of the leak.

The photos can be uploaded directly onto a PC via USB cable (supplied), ready to be attached to inspection reports.



Your Complete Source for
Testing Equipment Since 1969!

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Berg Engineering & Sales Company, Inc.

1-847-577-3980
Info@BergEng.com



LEAKSHOOTER® LKS1000-V2+IR

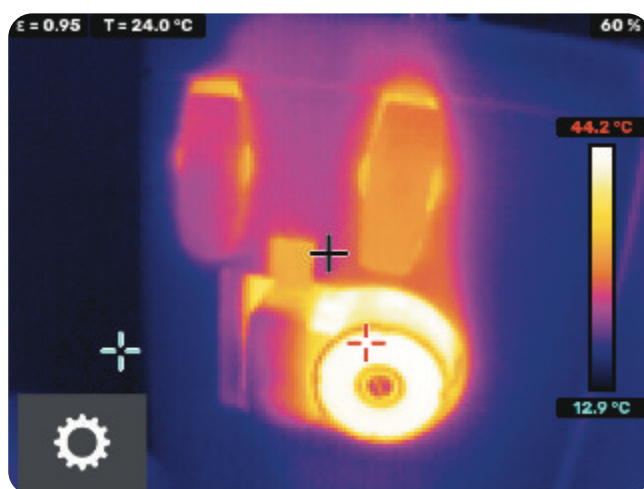
**Leak detection and
infrared 160X120 px
cameras**

**LEAKSHOOTER® LKS1000-V2+IR,
the V2+ which sees thermal
heating problems**

The LEAKSHOOTER® LKS1000-V2+IR uses the ultrasound detection capabilities of the V2+ and by adding a thermal detection capability can be used for electrical, mechanical and process installations. All displayed on a large 5,7" color screen.

In fact, the LEAKSHOOTER® LKS1000-V2+IR has an embedded FLIR LEPTON 160x120 pixels infrared camera (IR), working on a temperature scale from -10°C to +400°C.

In this firmware, you will find 1 fixed central cursor and 2 automatic ones to locate the highest and lowest temperature values of the scene. It offers adjustable emissivity and 3 colored palettes. It is also possible to save and download thermal pictures to PC via USB for reporting.





LEAKSHOOTER® LKS1000-V3+PRO

Unique in the world, three technologies in one instrument :
Leak detection camera, 160x120 px
Infrared camera and Steam traps condition analyzer

LEAKSHOOTER® LKS1000-V3+PRO,
the expert for your steam trap diagnostic

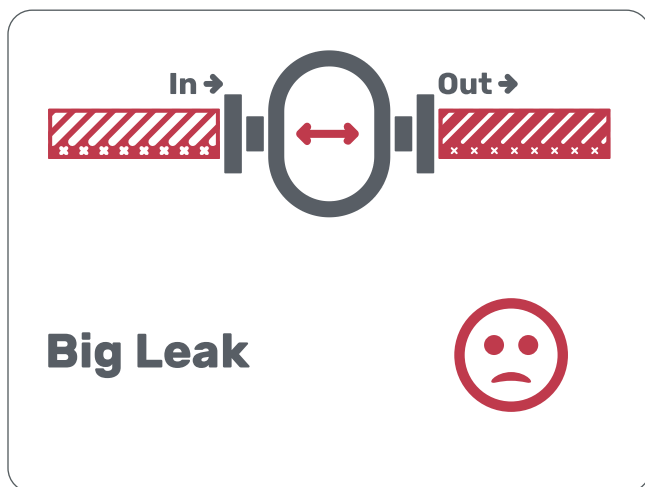
The LEAKSHOOTER® LKS1000-V3+PRO uses its ultrasonic detection capability to analyze automatically steam traps condition (using ultrasound & temperature).

The LEAKSHOOTER® LKS1000-V3+PRO has a special dedicated software STRAPSHOOTER+® which will help you to hear and see (REAL TIME curve) the ultrasound noise produced inside the trap. Thanks to this ultrasound curve evolution and to its embedded thermal infrared camera (FLIR LEPTON 160x120 pixels, with a temperature range from -10°C to +400°C), the integrated algorithm is able to indicate the condition of the trap, using one of seven possibilities.

It is then possible to save and download curve with the trap condition and thermal pictures to PC via USB for reporting.

With its dual embedded sensor technology infrared camera and ultrasonic sensor for acoustic analysis and a fully embedded Automatic Analysis Firmware, you will be able to detect your faulty traps in a second.

The STRAPSHOOTER+® software is compatible with all kind of traps, thermodynamic, thermostatic, ball float and inverted bucket models.





DIFFERENT VERSIONS

	V2+	V2+IR	V3+PRO
Leak detection (compressed air, gazes, steam, vacuum)	X	X	X
Infrared camera 160 x 120 px		X	X
AUTOMATIC expert diagnosis for steam trap condition			X

DIFFERENT FUNCTIONS

	V2+	V2+IR	V3+PRO
Leak detection (compressed air, vacuum, process gazes, steam...)	X	X	X
Cost and flow estimator - K function (Gives an estimation about leak size)	X	X	X
Infrared camera 160x120 Pixels (Looking for thermal heating problems)		X	X
High voltage default detection (Corona, partial discharge, arcing...)	X	X	X
Tightness or seal integrity control with dome use* (Looking for leaks without using gas...)	X	X	X
Electronic stethoscope** (To listen to mechanics, traps, valves, hydraulic...)	X	X	X
Expert analysis of steam traps** (REAL TIME ultrasound curve + T° measurements + AUTO diagnosis algorithm)			X

* ultrasonic dome emitter is required

** ultrasonic contact probe is required

OPTIONAL



Flexible sensors
400mm or 1500mm



Contact probe



Dome with
13 emitters



SYNERGYS TECHNOLOGIES has been established in 1996 in France, to offer innovative and professional solutions for preventive and predictive maintenance.

SYNERGYS TECHNOLOGIES is the inventor of the ultrasonic visualization concept with the LEAK**SHOOTER**®, of the MCP (Machine Condition Picture) concept with the V**SHOOTER**® and of the thermal contour concept with the T**SHOOTER**®.

We are present worldwide with professional and trained distributors.



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