

ACOUSTIC CAMERA

HD THERMAL
CAMERA
OPTION



synergys-technologies.com

Acoustic camera for compressed air, gases (O₂, N₂, H₂, NH₃, CH₄, Argon...), vacuum, steam leaks and high voltage faults detection (partial discharge with PRPD).

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, pinpoint and photograph the precise spots where compressed air, steam, pressurized gas, vacuum are leaking or where high voltage faults are located using TABSHOOTER® TBS72 & TBS140.

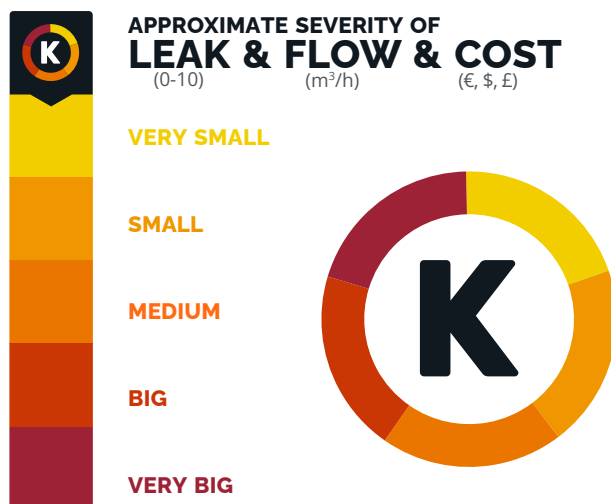
TABSHOOTER® TBS72 & TBS140 are high performance acoustic cameras, extremely sensitive and accessible to everyone.

Thanks to BEAMFORMING technology, they are capable to find all leaks including the very small from several tens of meters away.

Leaks can be detected in all types of industrial environment thanks to the possibility of adjusting frequency band (from 2kHz to 100kHz), to filter all undesirable noise out.

TABSHOOTER® TBS72 & TBS140 have a fully automatic detection capability. Facing a leak, a real time color spot will appear on the large 8" screen.

Detection is immediate. No need to waste time to scan or to precisely pinpoint the scene.



On each alphanumeric and timestamped photo, you can see its dB SPL leak level and its per/year estimated cost. Photos and videos can be downloaded to WINDOWS PC to create reports.

The visual detection can be supplemented by acoustic monitoring (heterodyne), thanks to headphones or internal embedded speaker.

Optional wireless infrared thermal camera TBS-IR (-20°C > +550°C with 256x192px) dedicated to thermal analysis with Min.-Max.-Center cursors in full screen.

TABSHOOTER® TBS72 & TBS140 accessories are available as for example the ultrasonic dome for tightness tests or the leak report editor.



Internal battery
TBS-BAT



Internal battery charger
TBS-BATCHG



Tightness and sealing
control: Ultrasonic emitter
with 13 emitters
LKSDOME



Software for report
edition option
TABREPORTEDITOR



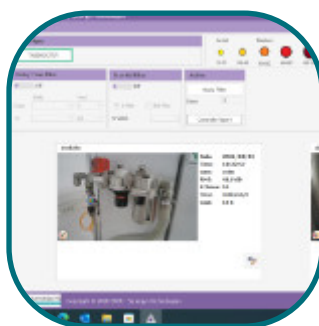
Photo & Video
(Leaks - Thermal)

Display modes: Color spot -
Target - Cross - Holographic
Mono or Multi leaks and
Focus (Zoom)
Compressed air leak **cost**
estimator
Frequency band: 2kHz to
100kHz (2 versions: 72 & 140
sensors)
Measuring distance: Up to
130m



Thermal Camera option

(256 x 192 pixels)
Min. - Max. - Central cursors
10 colors palettes



TABREPORTEDITOR for report edition option

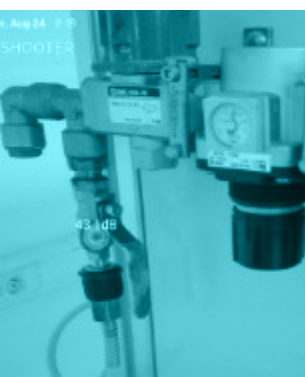
Available in different languages



PRPD option

High voltage partial discharge

COMPRESSED AIR LEAK DETECTION



COMPRESSED AIR LEAK DETECTION



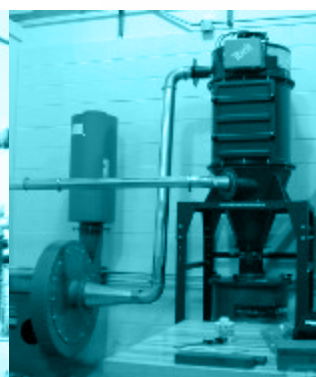
LF NOISE DETECTION



CORONA, PARTIAL DISCHARGE DETECTION



VACUUM LEAK DETECTION



TABSHOOTER® TECHNICAL SPECIFICATIONS TBS72 & TBS140

	TBS72	TBS140
MEMS sensors (spiral)	72 (with Mono & Multi & Focus detection capabilities)	140 (with Mono & Multi & Focus detection capabilities)
Visible camera	1600 x 1200 px	1600 x 1200 px
Sensitivity	-23dB - 1kHz	-26dB - 1kHz
SPL measurement	up to 120dB (25FPS)	up to 120dB (25FPS)
SNR	61dB - 1kHz	63dB - 1kHz
Dynamic range	0,1 to 12dB	0,1 to 12dB
Measurement distance	up to 80m (depending of default severity)	up to 130m (depending of default severity)
Frequency range	2kHz to 100kHz	2kHz to 100kHz
Autonomy	up to 2h30 (5h with 1x additional battery) (USB-C powered)	up to 2h15 (4h30 with 1x additional battery) (USB-C powered)
Temperature range	-20°C to +50°C	-20°C to +50°C
Dimensions - Weight - IP	Sensor: 85x38mm - 150g; Camera with sensor: 1,2kg Case: 464 x 366 x 176 mm - 4,5kg IP54	Sensor: 85x38mm - 150g; Camera with sensor: 1,2kg Case: 464 x 366 x 176 mm - 4,5kg IP54
Tablet (with special stand)	Samsung Tab Active5 - 8" screen - 128GB (Android16 - With USBC-C charger)	Samsung Tab Active5 - 8" screen - 128GB (Android16 - With USB-C charger)
Models	LD or LD & PRPD	LD & PRPD
PRPD detail	Corona, Surface, Suspension - Severity - Confidence %	Corona, Surface, Suspension - Severity - Confidence %
CE conformity	EMC 2014/30/UE	EMC 2014/30/UE
Optionnal accessories	• Internal removable battery TBS-BAT • Power charger TBS-BATCHG for up to 5x TBS-BAT max • Thermal IR camera TBS-IR (256 x 192 px, -20°C to 550°C, adjustable emissivity, 25Hz, FOV 25°x19°)	• Internal removable battery TBS-BAT • Power charger TBS-BATCHG for up to 5x TBS-BAT max • Thermal IR camera TBS-IR (256 x 192 px, -20°C to 550°C, adjustable emissivity, 25Hz, FOV 25°x19°)



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