

Overview

Sonus Viz is the only tablet-based acoustic camera that integrates seamlessly with a cloud-based CMMS. Users can create inspection reports in the field, tag asset locations via NFC, and upload data in real time. Ideal for both mechanical and electrical systems, Sonus Viz detects leaks in compressed air, gas, or vacuum lines and estimates annual cost avoidance. It also identifies electrical faults by capturing decibel levels, acoustic waveforms, and high-res images. Reports link to work orders that track labor, parts, and corrective actions with images and notes. This all-in-one tool empowers reliability teams with better data, faster repairs, and stronger maintenance documentation.



Key Features



Precise Emission Triangulation

Sonus Viz accurately triangulates the source of emissions, delivering superior capabilities compared to conventional acoustic cameras.



Visual and Auditory Confirmation

Inspectors can see and hear the emission with built-in speakers or a headset providing real-time audio, enhancing diagnostic accuracy.



User-Friendly Interface

The Sonus Viz app runs on an Android tablet, offering an intuitive interface that ensures rapid adoption with minimal training.



Real-Time Reporting and Cost Insights

Inspection data and cost avoidance estimates are instantly uploaded to the cloud-based CMMS, reducing the time for report creation.



NFC Tag Integration

Reusable NFC tags allow inspectors to assign assets to inspection records and work orders for sustainable asset management practices.



Scalable Ecosystem Compatibility

Sonus Viz is designed for scalability and is compatible with E Sentry Systems, for central data access through a single device.



Specifications

Model	Sonus Viz
General Specifications	
Dimensions (H x W x L)	22 mm x 95 mm x 95 mm
Weight (Including Battery)	300 g (0.7 pounds)
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-20°C to 50°C (-4°F to 122°F)
Charging Temperature	4°C to 45°C (39°F to 113°F)
Pollution Degree	2
Operating Environment	Wet location
Relative Humidity	10% to 95% non-condensing
Ingress Protection	UL 50E Type 3RX
Supported Languages	English, French, German, Italian, Spanish, Norwegian, Turkish, Chinese, Japanese
Firmware	Field upgradable
Sensors	
Number of Microphones	3 arrays of 8 digital MEMS microphones totaling 24
Frequency Bandwidth	20 Hz to 80 kHz
Sensitivity	Contact info@iriss.com for more information regarding sensitivity charts.
Operating Distance	0.3 m to >50 m (1 ft to >164 ft) Be advised that range heavily depends on source strength.
Field of View	150° ± 5° (in visual mode) In audible mode, the array is focused to a tight cone in front of the device.
Range Finder	Automatic distance measurement using 940 nm laser up to 2 m. Manual distance measurement can be up to 8 m.
LED Indicator	Tricolour (RBG). Provides visual feedback on battery level, connectivity, and other statuses of the Sonus Viz.
Advanced FPGA-Powered Digital Signal Processing	Contact info@iriss.com for additional details if required.
Acoustic Measurement	
Dynamic Range	110 dB
Frequency Selection	Bandwidth adjustment
Performance (Fluid Leak Detection)	0.481 lpm at 310 kPag (3.1 barg) from 4.25 m (0.017 cfm at 45 psig from 14 ft) 0.935 lpm at 690 kPag (6.9 barg) from 9.15m (0.033 cfm at 100 psig from 30 ft)
Connectivity	
Connection Type	Supports wired connection to mobile device (USB-C). Wireless connection via Bluetooth will be available in Q2 2025.
Bluetooth Low Energy	V5.0 with Transceiver at 2.4G Hz and up to 4 dBm output power
Compatible with	Sonus App (Available on Google Play). Web-based & iOS App solutions will be available in 2025.
Battery	
Type	Rechargeable LiPo
Rating	Rated 3.7 Vdc, 1.5 Ah, maximum specified charge and discharge temperature of 45°C (113°F)
Life	8+ hours
Charging Time	6 hours (0% to 100%)
Charging Method	USB-C

Specifications are subject to change without notice. For the most up-to-date specs, go to www.iriss.com

Specifications Continued

Model	Sonus Viz
Safety	
General Safety	UL 61010-1 (Edition 3) 2012 rev 2023, CAN/CSA-C22.2 NO. 61010-1-12/A1:18 (R2022), UL 94 (enclosure)
Electromagnetic Compatibility (EMC) International	EN 61326-1: 2013 Electrical equipment for measurement, control, and laboratory use EMC requirements, ICES-003 Issue 7 October 2020, ICES-Gen Issue 1 July 2018
FCC	FCC 47 CFR Part 15, Subpart B: §15.109 (ANSI C63.4:2014), FCC 47 CFR Part 15, Subpart C: §15.247, RSS-247, Issue 2, Feb 2017, §5, CAN ICES-3(A)/NMB-3(A)
Battery	UL 1642 (except impact test and crush test), UL 248-1 (PCB battery fuse)
Certification Standards	CAN/CSA-C22.2 NO. 61010-1-12/A1:18 (R2022), UL 61010-1 (Edition 3) 2012 rev 2023, EN 61326-1: 2013, ETSI EN 301 489-1 V2.2.3 (2019-11), ETSI EN 301 489-17 V3.2.4 (2020-09)
Other	
Warranty	1 year

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