TECHNICAL DATA

Fluke ii915, ii905, and ii500 Acoustic Imagers



SOUNDSIGHT™ TECHNOLOGY

ACOUSTIC IMAGING Blended live SoundMap™ with visual image

DISPLAY

7-inch 1280 x 800 LCD with capacitive touchscreen

LEAKQ™ MODE

Leak quantification: on-device estimated leak size and cost indications

MECQ™ MODE

Mechanical inspection: on-device feature to detect and document mechanical issues, available on ii915

PDQ MODE™

Partial discharge: on-device PD classification, available on ii915

SoundSight™ refers to the Fluke technology of converting sound waves to a visual image.

The all-in-one tool you have been looking for to visualize leaks, partial discharge, and mechanical issues.

Leaks: Hidden Costs Due to Leaks in Compressed Air, Gas, Steam, and Vacuum Systems.

While most manufacturers know these leaks exist, addressing them has been time-consuming and tedious. With the Fluke ii Series and minimal training, your maintenance technicians can begin checking for leaks during their typical maintenance routine—even during peak operation hours. The ii Series Acoustic Imagers let technicians see sound as they scan hoses, fittings, and connections for leaks. Its built-in acoustic array of tiny sensitive microphones generates a spectrum of decibel levels per frequency. Based on this output, an algorithm calculates a sound image, known as SoundMapTM, that is superimposed on a visual image. The SoundMap is automatically adapted depending on the frequency level selected so that background noise is filtered out, making it incredibly simple to detect compressed gas leaks.





Mechanical: First-Line Inspection to Locate Potential Mechanical Issues Early and Avoid Unplanned Downtime

Conveyor systems, with their vast size and intricate components, often pose a maintenance challenge, threatening to disrupt production and cause unplanned downtime. The Fluke ii915 with MecQ™, a game-changer in the field, enables efficient scanning of large areas, detecting and documenting potential issues for more targeted maintenance. With its contactless scanning and advanced noise filtering, the Fluke ii915 Acoustic Imager with MecQ™ Mode ensures safety and delivers clear images even in high-noise environments. By detecting areas of concern early on, it instills confidence in its users, enabling proactive measures to prevent costly problems, surpassing traditional methods. For professionals seeking to ensure seamless operation of large conveyance systems, the Fluke ii915 Acoustic Imager with MecQ™ is the ultimate choice.

Partial Discharge: The Invisible Threat... Now You Can See

Partial discharge, a serious issue that can lead to arc flash fires, blackouts, explosions, and danger to life, is now a visible threat. Whether you are inspecting insulators, transformers, switch gears, or high-voltage powerlines, the Fluke ii915 Acoustic Imager with PDQ Mode™ is your proactive tool. This tool, designed for high-voltage electricians, electrical test engineers, and grid maintenance teams, translates the sound of partial discharge into visuals that pinpoint the location. With an extended frequency range of 2-100 kHz, the ii915 enables early detection of potential problems, empowering you to plan maintenance and prevent catastrophic events.







	ii500	ii905	ii915
LeakQ™	Scale (1-10)	Leak size scale, leak rate, and leak cost estimation	Leak size scale, leak rate, and leak cost estimation
PDQ Mode™			•
MecQ™			•
Wi-Fi		•	•
Frequency	2 to 52 kHz	2 to 65 kHz	2 to 100 kHz
Detection Range	Up to 50 meters (164 feet)*	Up to 70 meters (230 feet)*	Up to 120 meters (393 feet)*
Visual Camera Resolution	0.3 MP	5.0 MP	5.0 MP
Battery Life	6 hours	6 hours	6 hours
Memory	20 GB	32 GB	32 GB
Tripod Connector		•	•

^{*}Depending on ambient conditions





Ergonomic to use

Adjustable hand strap and adjustable neck strap

Tripod connector

ii915 and ii905 models come with standard ¼"-20 UNC threaded hole for easy tripod mounting and clear images or video

Annotate and tag

Tag your inspections by adding photo notes, asset identifiers, text notes, and follow-up actions, including priority. Use QR codes to easily identify your inspections. No hassle or errors with seamless integration using the FlukeConnect™ desktop and online reporting software.

Large 7" touch screen

High resolution 7" capacitive, full color touch screen, supports interaction with interface menu.

Operating time

Stay powered all day with six hours of operating time

One button capture image

Capture images on-the-go with one click, no need to navigate the menu for image capture

Intuitive user interface

Easy to use with minimal training.

- Features supporting common workflows
- Unique customizable frequency band filter
- On-device real time data
- Customizable profiles for different inspection types

Reduce the frustration of unplanned downtime in four easy steps

1. Locate

Quickly and easily scan areas and pinpoint where unusual sounds are coming from – even those sounds out of range for human hearing.

2. Document

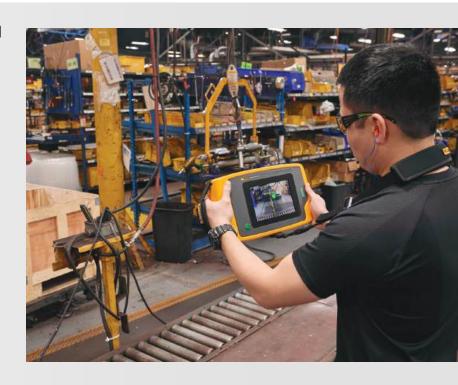
Take a screenshot of the point of interest. Then annotate and tag the photo to define follow-up action and urgency.

3. Share

Share the annotated screenshots with your team so they can respond and schedule maintenance.

4. Repair

Investigate the pinpointed areas further during planned downtime to determine what the problem is and proactively fix it.





Specifications

		I.		
Key Features	ii500	ii905	ii915	
Sensors				
Frequency band	2 kHz to 52 kHz	2 kHz to 65 kHz	2 kHz to 100 kHz 2 kHz to 52 kHz	
Detection range ¹	0.5 to > 50 meters (1.6 to > 164 feet)	0.5 to > 70 meters (1.6 to > 230 feet)	0.5 to > 120 meters (1.6 to > 393 feet)	
Field of view (FOV)		63°± 5°		
Nominal frame rate		25 FPS		
Built-in digital camera (visible lig	ght)			
Field of view (FOV)		63°± 5°		
Focus		Fixed lens		
Zoom	No zoom	3 x digit	tal zoom	
Resolution	0.3 MP	5.0	MP	
Display	<u>, </u>			
Size	7"	LCD with backlight, sunlight reada	able	
Resolution		1280 x 800 (1,024,000 pixels)		
Touchscreen		Capacitive		
Acoustic image		SoundMap™ image		
lmage storage				
Storage capacity	20 GB (> 5,000 pictures / > 999 videos)	20 GB 32 GB res / > 999 videos) (> 8,000 pictures / > 1,600 videos)		
ímage format	·	। led visual and SoundMap™ .JPG o	r .PNG	
/ideo format	В	Blended visual and SoundMap™ .MP4		
Video length	Up to 5 minutes			
Digital export		USB-C for data transfer		
Acoustic measurements	_			
Measurement range (typical)			12.1 to 114.6 dB SPL (± 1 dB SPL 2 kHz)	
	15.4 to 115.2 dB SPL (± 1 dB SPL 2 kHz)	15.4 to 115.2 dB SPL (± 1 dB SPL 2 kHz)	4.4 to 101.2 dB SPL (± 2 dB SPL 19 kHz)	
	5.6 to 102.5 dB SPL (± 2 dB SPL 19 kHz)	5.6 to 102.5 dB SPL (± 2 dB SPL 19 kHz)	12.8 to 119.2 dB SPL (± 1 dB SPL 35 kHz)	
	28.4 to 131.1 dB SPL (± 1 dB SPL 35 kHz)	28.4 to 131.1 dB SPL (± 1 dB SPL 35 kHz)	19.8 to 116.1 dB SPL (± 3 dB SPL 52 kHz)	
	41.8 to 133.1 dB SPL (± 3 dB SPL 52 kHz)	41.8 to 133.1 dB SPL (± 3 dB SPL 52 kHz)	41.4 to 129.0 dB SPL (± 1 dB SPL 80 kHz)	
			54.4 to 135.5 dB SPL (± 1 dB SPL 100 kHz)	
Classification and quantification	1			
LeakQ™	Leak size scale (1-10)	Leak size scale, Leak rate, and Leak cost estimation		
PDQ Mode™	-	-	Partial discharge type classification	
$MecQ^{TM}$	-	-	Mechanical anomaly detection	
Auto max/min dB gain	Auto	Auto or manual	, user selectable	
Frequency band selection	User selectak	User selectable through user-made presets or manual entry		
Battery				
Battery	Rechargeable and field replaceable Li-ion battery			
Battery life	6 hours			
Battery charging time	3 hours	4 hours		
Battery charging system	External (Bay charger)	Internal (USB-C)		

¹ Depending on ambient conditions



Intuitive user interface Coustics: Show dB scale Coustics: Show dB scale Coustics: Show dB scale Coustics: Min/Max dB Coustics: Min/Max date Coustics: Min/Max	Key Features	ii500	ii905	ii915	
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IEC 61010-1: Pollution degree 2 Rectromagnetic Compatibility IEC 61326-1: Portable Electromagnetic Environment, CISPR 11: Group 1, Class A Equipment (Industrial Broadcasting and Communication) 47 CFR 15 subpart C	RoHS compliant		Yes		
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47 CFR 15 subpart B. This product is	Electromagnetic Compatibility (EMC) International		IEC 61326-1: Indust Environment, CISPR	try Electromagnetic R 11: Group 1, Class A	
JSA (FCC) 47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103 47 CFR 15 subpart C	Korea (KCC)	Class A Equipment (Industrial Broadcasting and Communication)			
	USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103	47 CFR 15	subpart C	

² Subject to regional availability (www.fluke.com/premiumcare)

Reduce unplanned expenses and get the most out of vour tools with Fluke Premium Care

When you invest in the best equipment in the industry, you want your money to go as far as possible. Fluke Premium Care provides coverage above and beyond your tool's original product warranty, so you don't need to worry about unexpected downtime caused by damaged test equipment, accessories, or tools in need of calibration or repair.

Fluke Premium Care Standard is available with one-year or three-year plan options so you can choose the plan that is right for you.

	Standard Warranty	Premium Care Standard
Repair manufacturing defects	Ø	
Accidental damage and repair		
Replacement of damaged accessories		Ø
Annual calibration or performance check		
Expedited calibration and repair		
Priority tech support		
Software updates		
Expedited shipping		



PremiumCare

Uptime Protection by FLUKE

Learn more about Fluke Premium Care www.fluke.com/premiumcare



Repair manufacturing defects

Ensuring that your equipment functions as intended maintains accuracy and reliability, thereby reducing downtime and ensuring the longevity of your Fluke product.



Accidental damage and repair

Avoid costly repairs and rest easy knowing your test tool is covered in the event it gets damaged.



Replacement of damaged accessories

Accessories that originally shipped with your unit, like batteries, power adapters, probes and cables, and have been qualified as defective by our technicians will be replaced, free of charge.



Annual calibration or performance check

Ensure your test tool is providing accurate results and adheres to the recommended maintenance schedule by leaving it in the hands of our experts.

Expedited calibration and repair

Your calibration or repair will be expedited with priority next-on-bench service and shipping so you can get back to your work faster.



Expedited shipping

Accelerates the shipping process, reducing the time your equipment spends in transit, while minimizing the overall turnaround time to ensure that your Fluke product is back in your hands and operational as quickly as possible.



Software updates

Maintain peak performance with firmware updates that ensure your tool remains reliable and up to date, automatically applied during equipment calibration.



Priority tech support

Ensures prompt assistance and resolution of technical issues, minimizing downtime by quickly addressing any problems or concerns with your Fluke equipment.





Ordering information

FLK-ii500 Acoustic Imager FLK-ii905 Acoustic Imager FLK-ii915 Acoustic Imager

Included

Acoustic Imager; Power supply*; Lithium-ion smart battery pack; USB-C cable; Rugged hard carrying case; Array sensor cover; Adjustable hand strap, and adjustable neck strap.

* ii500 includes a battery charging bay.

Visit **fluke.com** to get complete details on these products or ask your local Fluke sales representative.

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