

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 SoundMap[™] 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™			•
MecQ™			•
Wifi		•	•
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)*
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



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

Ergonomic to use Adjustable hand strap and adjustable neck strap

Tripod connector

ii915 and ii905 models come with standard $\frac{1}{2}$ -20 UNC threaded hole for easy tripod mounting and clear images or video

Annotate and tag

FLUKE II915 ACOUSTIC IMA

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 software.

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

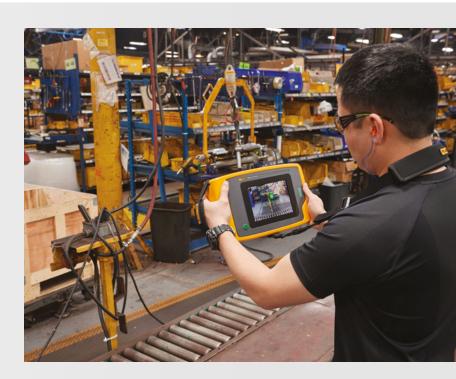
Take a screenshot of the point of interest. Then annotate and tag the photo to define follow-up action and urgency.

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

Sentacis Q View 10 00 MeV Frequency band 2 kHz to 52 kHz 2 kHz to 52 kHz 2 kHz to 52 kHz Detection range' 0.5 to > 20 meters 0.5 to > 20 meters 0.5 to > 20 meters Field of view (FOV)	Key Features	ii500	ii905	ii915	
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Frequency band selectionUser selectable through user-made presets or manual entryBatteryRechargeable and field replaceable Li-ion batteryBattery life6 hoursBattery charging time~3,5 hours	MecQ™	-	-	Mechanical anomaly detection	
BatteryRechargeable and field replaceable Li-ion batteryBattery life6 hoursBattery charging time~3,5 hours	Auto max/min dB gain	Auto	Auto or manual,	, user selectable	
BatteryRechargeable and field replaceable Li-ion batteryBattery life6 hoursBattery charging time~3,5 hours	Frequency band selection	User selectab	ble through user-made presets or	manual entry	
Battery life6 hoursBattery charging time~3,5 hours	Battery				
Battery charging time ~3,5 hours	Battery	Rechargeable and field replaceable Li-ion battery			
	-	6 hours			
Battery charging system External (Bay charger) Internal (USB-C)					
	Battery charging system	External (Bay charger)	Internal	(USB-C)	



Key Features	ii500	ii905	ii915	
Software				
Ease of use	Intuitive user interface			
Acoustics: Show dB scale	On/Off			
Acoustics: Min/Max dB	Manual/Auto			
Acoustics: Profiles	– Preset capture profiles			
Acoustics: High frequency		_	Yes	
Acoustics: Multiple sources	Single source	Show single or r	nultiple sources	
Palette: Colors	3: Grayscale, Ironbow, and Blue-Red			
Palette: Overly transparency	Yes: 1-100 %			
Grayscale mode	Yes			
Centerpoint markers	On/Off			
Trend graphs	Frequency and dB scale			
Spotmarkers	dB level reading at center point of image			
Leak values	LeakQ [™] scale (1-10) ²	Leak costs, Leak volume, LeakQ [™] scale (1-10) ²		
Master admin menu	-	Yes		
Annotation	Asset name; Asset ID; Asset type; Leak type; Gas type; Pressure			
Photo notes	Up to 4 photos notes for reference			
Asset inspection status	-	'As left', 'As found', 'Undetermined'		
Asset ID	Text input and	Text input and automatic QR code based asset ID identification		
Actions annotation	-	Action requirements, Actior	n priority level, Action notes	
Other	-	Operating conditions, Weather notes		
General specifications				
Tripod holder / connector	-	Yes: 1/4"-20		
USB	1 x USB-C	2 x U	SB-C	
Wireless	-	Wifi		
Operating Temperature	-10 to 45 °C (14 to 113 °F)	-10 to 40 °C (14 to 104 °F)	-10 to 45 °C (14 to 113 °F)	
Storage Temperature	-20 to 70 °C (-4 to 158 °F) without batteries installed			
Relative humidity	10 to 95 % non-condensing			
Size (H x W x L)	186 mm x 322 mm x 68 mm (7.3 inches x 12.7 inches x 2.7 inches)			
Weight (battery included)	2.1 kg (4.6 pounds)	2.0 kg (4.4 pounds)		
Ingress Protection (IP)	IP40			
Warranty	2 year			
Fluke Premium Care	Premium Care Standard ³			
Self-diagnostic notification	Array-health test to identify when microphone array needs attention			
Supported languages	Dutch, English, Finish, French, German, Italian, Japanese, Korean, Polish, Portuguese, Simplified Chinese, Spanish, Swedish, Traditional Chinese			
	Yes			
RoHS compliant		Yes		
RoHS compliant Safety		Yes		
Safety General safety		Yes IEC 61010-1		
Safety General safety Electromagnetic Compatibility (EMC) International		IEC 61010-1 magnetic Environment IEC 61326-2		
Safety General safety Electromagnetic Compatibility	Class A Equipm	IEC 61010-1	Communication)	

² 1-10 Scale (independent of Leak Type)
³ Subject to regional availability (www.fluke.com/premiumcare)





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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