

## ii905/ii915 Acoustic Imager

**Product Specifications** 

## **Specifications**

Acoustic Sensing and Imaging Number of Microphones	.64 digital MEMS
Frequency Range	
ii905	.2 kHz to 65 kHz
ii915	.2 kHz to 100 kHz
Operation Distance (depends on ambient condition	ns)
ii905	.0.5 m to 70 m (1.6 ft to 230 ft)
ii915	.0.5 m to 120 m (1.6 ft to 393 ft)
Field-of-View (FOV)	.63 ° ±5 °
Nominal Frame Rate	.25 FPS
Visual Camera	0000 4070
Resolution	
Field of View (FOV)	
Focus	
Zoom	•
Image Mode	.Color and Grayscale
Display	
Display	.7" LCD with backlight, under-sunlight readable
Resolution	.1280 x 800
Touchscreen	. Capacitive
Acoustic Image	.SoundMap™ image overlaps with visual image
Image Storage	
Memory/Storage Capacity	.32 GB
Image Format	
Video Format	.Blended Visual and SoundMap™ image .MP4
Save Video	.Up to 5 minutes
Acoustic Measurement and Analysis Sound Pressure Range (typical)	
ii905	.15.4 dB SPL to 115.2 dB SPL ±1 dB SPL 2 kHz 5.6 dB SPL to 102.5 dB SPL ±2 dB SPL 19 kHz 28.4 dB SPL to 131.1 dB SPL ±1 dB SPL 35 kHz 41.8 dB SPL to 133.1 dB SPL ±3 dB SPL 52 kHz
ii915	.12.1 dB SPL to 114.6 dB SPL ±1 dB SPL 2 kHz 4.4 dB SPL to 101.2 dB SPL ±2 dB SPL 19 kHz 12.8 dB SPL to 119.2 dB SPL ±1 dB SPL 35 kHz 19.8 dB SPL to 116.1 dB SPL ±3 dB SPL 52 kHz 41.4 dB SPL to 129.0 dB SPL ±1 dB SPL 80 kHz 54.4 dB SPL to 135.5 dB SPL ±1 dB SPL 100 kHz
Minimal Acoustic Imaging Sensitivity @ 1 m (typical	
ii905	.9 dB SPL 2 kHz 3 dB SPL 19 kHz 23 dB SPL 35 kHz 37 dB SPL 52 kHz
ii915	

Auto Max/Min dB Gain	Auto or manual. User selectable.		
Frequency-Band Selection			
Capture Modes			
•	Capture and analyze leak data to determine type of leak (quick-disconnect, threaded coupling, hose, open end) and estimate the size of the leak.		
PDQ Mode™ (ii915 only)	Capture and store partial discharge data to estimate the type of partial discharge (corona, surface/tracking, arcing, and void). The data includes information for later use to create pulse phase diagrams.		
MecQ™ Mode (ii915 only)	Detect and locate potential anomalies in mechanical components as an early identification of possible mechanical deterioration that requires further inspection.		
User Profiles	User configurable profiles to save custom settings		
Source-Visualization Mode	User-selectable between single-source or multiple-source detection		
SoundMap™ Image Palettes			
Communication Interface and Buttor			
USB	USB-C 1 used to transfer data to PC, download files using standard USB MASS Storage device driver.  USB-C 2 used for on-board charging and power supply.		
Buttons	Power on/off, image/video capture		
Self-Diagnostic			
Type	Array-health Self-diagnostic warning to identify when too many microphones are faulty.		
Mechanical			
Size without Handstrap (H x W x L)	186 mm x 322 mm x 68 mm		
Weight			
Ingress Protection	•		
Power Supply			
Battery Type	•		
Battery Life			
Charging Hours	4 hours		
Environmental			
Temperature			
Operating	40.00 +- 45.00		
ii905			
ii915			
Storage without battery			
Storage with battery			
Battery charging	0 °C to 40 °C		
Altitude			
Operating			
Storage			
Humidity	10 % to 95 % non-condensing		

## Wireless Radio with WiFi/BT module

5 GHz band 1 Frequency Range ......5725 MHz to 5850 MHz Output Power .....<33 dBm 5 GHz band 2 Frequency Range ......5150 MHz to 5250 MHz Output Power .....<23 dBm 2.4 GHz band Frequency Range .......2400 MHz to 2483.5 MHz Output Power .....<20 dBm General ......IEC 61010-1: Pollution degree 2 Lithium battery.....IEC 62133-2, UN 38.3 Electromagnetic Compatibility (EMC) International ......IEC 61326-1: Industry Electromagnetic Environment CISPR 11: Group 1, Class A Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself. Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances. Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments. Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test