FLUKE

Technical Data

Fluke iSee™ Mobile Imaging Series ii01 Acoustic Camera for Android™





Find leaks faster
The ii01 uses 16 high-precision MEMS microphones and Fluke SoundMap™ acoustic imaging technology to quickly locate compressed air and gas leaks, helping you spend less time searching and more time fixing.

Detect more than the obvious
A 2 kHz to 48 kHz frequency range captures the sounds associated with common industrial leak detection and air-tightness testing applications, helping uncover issues that may go unnoticed during traditional inspections.

Inspect with confidence
Dedicated leak mode, activated with a single tap, optimizes detection around 40 kHz for faster leak identification while real-time dB measurements provide additional insight for assessment and documentation.

The Fluke iSee Mobile ii01 Acoustic Camera attaches directly to your Android smartphone or tablet, transforming a device you already carry into a powerful acoustic imaging camera. Whether you're locating compressed air or gas leaks, verifying air tightness, or inspecting systems for wasted energy, the ii01 helps you quickly pinpoint problems and prioritize corrective action. With no complex setup required, professional acoustic imaging is always within reach.

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Professional acoustic imaging

- 16 high-precision MEMS microphones deliver clear acoustic images and rapid sound source localization
- Fluke SoundMap™ technology visually overlays acoustic information to help identify leak locations faster
- 2 kHz to 48 kHz frequency range supports common industrial applications including compressed air and gas leak detection and air-tightness inspections
- Detection range from 0.5 m to more than 20 m enables inspections from both close-up and safe working distances
- 50° × 38° field of view provides broad area coverage for faster surveys and inspections
- Leak Mode optimizes performance for compressed air and gas leak detection with a dedicated frequency band and one-touch activation

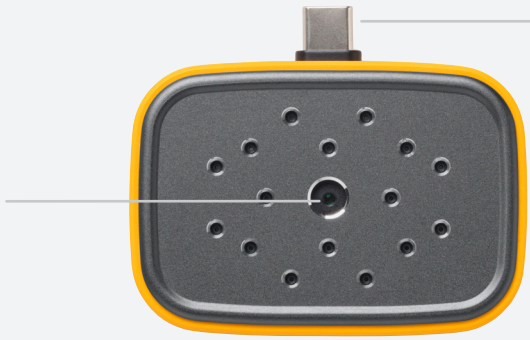
Connected and ready to work

- Plug directly into your smartphone with a USB-C connection for instant acoustic inspections with no complex setup or cables required
- Compact and lightweight design weighs just 50 g, making it easy to carry and use throughout the workday
- Simple, intuitive operation lets users get started quickly with a streamlined interface and minimal training
- Capture and share results instantly using your mobile device for faster communication and decision-making
- Store images and videos directly on your phone, including recordings up to 5 minutes long, for easy documentation and archiving

Product anatomy

Pinpoint sound sources faster

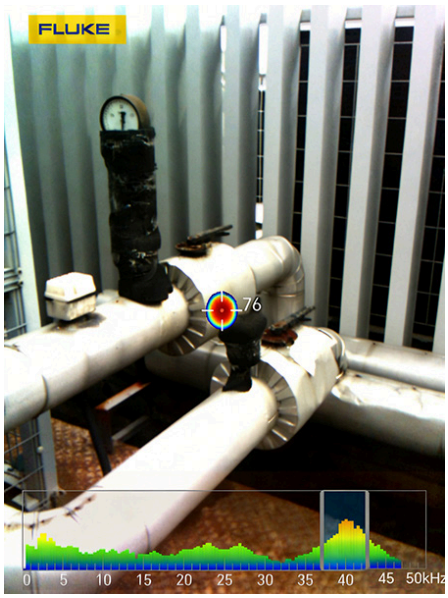
The 16-microphone MEMS array captures acoustic data across a wide frequency range, enabling Fluke SoundMap™ technology to visually identify and locate leaks and other sound sources in seconds.



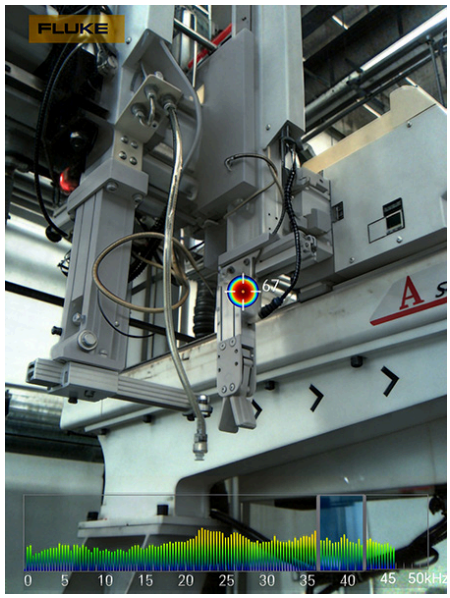
USB-C convenience, always ready

Plug directly into your Android phone with USB-C for instant use. No extra cables or setup required.

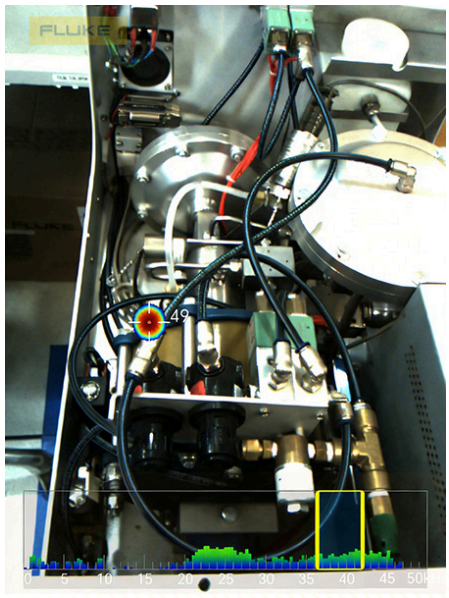
Fluke iSee™ application scenarios



Leak detection on a pipeline

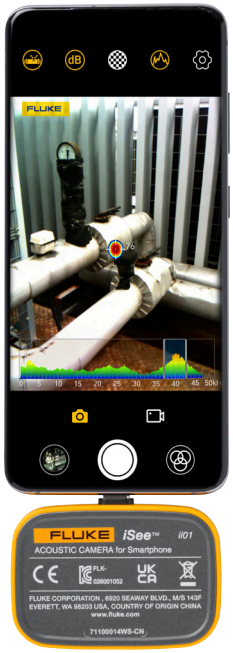


Compressed air leak detection in industrial machines



Air tightness inspection of complicated equipment pipelines

1.800.561.8187 www.itm.com information@itm.com



How to download the Fluke iSee™ application*

GET IT ON Google Play

Download the Fluke iSee mobile camera app from the Google Play Store.

* Android™ 6.0 / HarmonyOS 2.0 and above are supported, and the OTG feature needs to be enabled on the smart device

Specifications

	Fluke iSee™ Mobile ii01 Acoustic Camera
Sensors	
MEM (Microphones)	16
Frequency band	2 kHz to 48 kHz
Detection range[1]	0.5 to > 20 meters (1.6 to > 65 feet)
Field of view (FOV) (typical)	50°x 38°
Nominal frame rate	20 FPS
Built-in digital camera (visible light)	
Field of view (FOV) (typical)	50°x 38°
Focus	50 cm to infinity
Zoom	3 x digital zoom
Resolution	2 MP
Image storage	
Image format	Blended visual and SoundMap™ JPG
Video format	Blended visual and SoundMap™ .MP4
Video length	Up to 5 minutes
Acoustic	
Auto max/min dB gain	Auto
Frequency band selection	Quick Leak Mode On/Off
Capture mode	
Photo Mode	Yes
Video Mode	Yes
Leak Mode	37.5 kHz - 42.6 kHz

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Battery	
Battery	Powered by smartphone
Software	
Acoustics: Show dB scale	On/Off
Acoustics: Min/Max dB	Max dB/Auto
Palette: Colors	3: Grayscale, Ironbow, and Blue-Red
Palette: Overlay transparency	Yes: 1-100 %
Trend graphs	Frequency and dB scale
General specification	
USB	USB Type-C Plug Interface
Operating temperature	0 °C to +40 °C (32 °F to 104 °F)
Storage temperature	-30 °C to +60 °C (-22 °F to 140 °F)
Operating altitude	Up to 2000 m
Storage altitude	Up to 12000 m
Relative humidity	10% to 90% RH, non-condensing
Size (H x W x L)	61 x 50 x 12 mm (2.40 × 1.97 × 0.47 inches)
Weight (battery included)	50 g (1.76 oz)
Ingress Protection (IP)	IP54
Warranty	2 year
Supported languages (iSee™ mobile app)	English, Dutch, Simplified Chinese, Traditional Chinese, French, German, Spanish, Italian, Portuguese, Japanese, Korean, Turkish, Czech, Finnish, Hungarian, Polish, Swedish
OS supported	Android 6.0/ HarmonyOS 2.0 and above
Safety and environmental	
RoHS compliant	Yes
Electromagnetic Compatibility (EMC) International	IEC 61326-1: Portable Electromagnetic Environment, CISPR 11: Group 1, Class A[2]
Korea (KCC)	Class A[3] Equipment (Industrial Broadcasting & Communication Equipment)
USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103

1. Depending on ambient conditions.
2. 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.
3. Device meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.



Ordering information

Model	Fluke ii01 Acoustic Camera
Model number	6163245
Description	FLUKE-II01, ACOUSTIC CAMERA FOR SMARTPHONE,16 MEMS,ANDROID
Includes	Fluke ii01 Acoustic Camera for Android, Packaging box, Quick Reference Guide, Soft protective bag

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

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