

## MPAC208

### Megger Professional Acoustic Imager



- 208 MEMS Microphone array
- 100 kHz bandwidth
- Detection range up to 200 m
- 13 MP optical camera resolution
- 8" Touchscreen
- 10 Hour battery life (2 x 5 hr battery packs)
- Gas Leak, PD and Mechanical modes
- Optional thermal imaging modules

#### DESCRIPTION

The Megger MPAC208 Professional Acoustic Imaging Camera is a state-of-the-art diagnostic tool designed to detect and analyse ultrasonic sound patterns, enabling quick, reliable identification of gas leaks, mechanical faults, and electrical partial discharges in a variety of industrial environments. With advanced sound localisation and processing capabilities, this device streamlines maintenance workflows and enhances safety.

#### FEATURES

##### Precise Leak Detection

Effortlessly pinpoints pressurised and vacuum gas leaks, minimizing downtime and reducing energy losses.

##### Advanced Electrical Inspection

Includes Phase Resolved Partial Discharge (PRPD) analysis for clear identification and discrimination between different types of partial discharge in electrical systems.

##### Mechanical Fault Identification

Detects mechanical deterioration in rotating equipment, valves, and bearings through ultrasound monitoring, enhancing predictive maintenance.

##### Quantifiable Leak Rate Assessment

Built-in analytics quantify leak rates, helping estimate energy loss and prioritise repairs based on cost impact.

##### Noise Suppression with Focus Function

Focus feature minimizes unwanted background interference, providing clear, actionable acoustic images, even in noisy industrial environments.

##### Ultrasound to Audible Sound Conversion

Converts inaudible ultrasonic emissions to audible sound for intuitive identification and pinpointing of leak sources.

##### SoundScan™ Directional Guidance

Proprietary SoundScan™ technology directs the user to the primary sound source, even when it is outside the camera's visual field.

##### Field-Upgradable Firmware

Stay current with easy firmware updates via USB-C or microSD, ensuring long-term device performance and compatibility.

##### Acoustic Analysis Software

Included desktop software enables comprehensive analysis, reporting, and data management post-inspection.

##### Time-Domain Graph Display

Visualize and analyse ultrasonic signals in real-time with the time-domain graph, helping operators identify signal patterns, duration, and transient events for enhanced diagnostic accuracy.

##### Acoustic Spectrogram Visualisation

The built-in acoustic spectrogram displays frequency content over time, allowing users to easily distinguish between different sound sources and track changes in frequency behaviour, especially in complex environments.

##### Optional Thermal Imaging Modules

Add-on thermal imaging modules enables a side-by-side view of thermal and acoustic images, allowing for simultaneous detection of temperature anomalies and acoustic events, improving fault correlation and identification.

## MPAC208 Megger Professional Acoustic Imager

### VERIFICATION

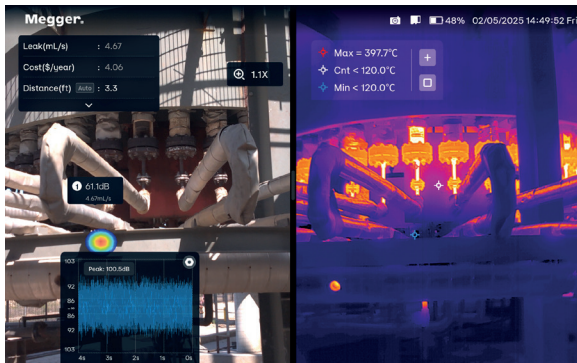
To ensure the MPAC cameras are operating within specified parameters, the Megger MPAC-V acoustic camera verifier can be used. This optional tool gives the operator the ability to verify the frequency and SPL measurements of the camera using a dedicated verification procedure. In addition, the camera can automatically check the operation of each MEMS microphone, to ensure optimum performance.

### APPLICATIONS

- Leak detection in compressed air and gas systems
- Predictive maintenance of mechanical systems
- High-voltage equipment inspections
- Industrial reliability and energy efficiency auditing

### ACOUSTIC SPECIFICATIONS

- 208 channel MEMS microphone array
- Frequency range: 2 kHz to 100 kHz
- Detection range: 0.5 to 200 m (1 – 656 ft)
- Min leak detection rate:  
0.0019 l/min @ 2.5 m 5 Bar  
0.0022 l/min @ 6.0 m 5 Bar
- Leak cost quantification
- SPL Range 25.7 dBA to 132.5 dBA
- Dynamic Range 28 dB to 132 dB (adjustable)



These images show the thermal capability with the optional thermal imaging module, MPAC-TM.



### SPECIFICATIONS

#### Camera

<b>Resolution</b>	13 MP
<b>Camera Focal Length</b>	4.3 mm (0.17")
<b>Nominal Frame Rate</b>	25 fps
<b>Field of View (FOV)</b>	Horizontal: 66° x Vertical: 52°
<b>LED Light</b>	4 Ultra-bright LEDs

#### Display

<b>Resolution</b>	1920 x 1200
<b>Size</b>	8 inches
<b>Brightness</b>	700 nits
<b>Touchscreen</b>	Capacitive touch screen
<b>Zoom</b>	6x digital zoom
<b>Standard palettes</b>	Grayscale, Ironbow, Rainbow

#### Communication and Storage

<b>Internal Storage</b>	64 GB
<b>External Storage</b>	64 GB external microSD card
<b>Image Format</b>	JPG
<b>Audio Format</b>	WAV
<b>Video Format</b>	mp4
<b>Video Length</b>	Up to 10 min
<b>Digital Export</b>	microSD (TF) card/Wi-Fi/ USB-C flash drive
<b>Data Transfer</b>	Wi-Fi, USB-C Flash drive, Bluetooth® USB-C Cable, microSD (TF) card

#### Battery

<b>Battery Type</b>	Li-Ion smart battery with charge indicator
<b>Battery Capacity</b>	6600 mAh, 7.2 V Rechargeable Li-ion
<b>Battery Life</b>	5 hours under full load state
<b>Charge Time</b>	USB Type-C port – 2.15 Hrs Charging cradle – 1.15 Hrs

#### Hardware Ports

<b>USB-C 1</b>	USB 3.0 for charging, HDMI, data export
<b>USB-C 2</b>	USB 2.0, USB sensor, Thermal Module
<b>3.5 mm audio jack</b>	Headset output
<b>TF/microSD card slot</b>	64 GB card supplied
<b>Analog input</b>	4 Channel external analog sensor

#### Environmental

<b>Operating Temperature</b>	-20 °C to +50 °C
<b>Relative Humidity</b>	10% to 95% (no condensation)
<b>Storage Temperature</b>	-20 °C to +70 °C
<b>Charging Temperature</b>	10 °C to +45 °C
<b>Restriction of Hazardous Substances (RoHS) Compliant</b>	Yes

# MPAC208

## Megger Professional Acoustic Imager

### General Specification

<b>Size</b>	270 x 190 x 51 mm (10.6" x 7.5" x 2")
<b>Weight</b>	1.4 kg (3 lbs)
<b>Bluetooth</b>	BT 5.2
<b>Environmental rating</b>	IP54
<b>Warranty</b>	2 years
<b>Supported Languages</b>	English, Dutch, French, Simplified Chinese, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Thai, Arabic, Macedonian, Romanian, Bulgarian

### Software

<b>Report types</b>	Gas/Electricity, ISO 50001-compliant
<b>Analysis</b>	Waveform, spectrum, spectrogram, leakage assessment, PRPD type, PRPD spectrum. Thermal image analysis (with optional thermal module MPAC-TM).

### Safety

<b>General Safety</b>	IEC 61010-1
<b>Electromagnetic Compatibility (EMC)</b>	
<b>International</b>	IEC 61326-1: Portable Electromagnetic Environment IEC 61326-2-2 CISPR 11: Group 1, Class A
<b>Vibration</b>	2g, IEC 60068-2-6
<b>Shock</b>	25g, IEC 60068-2-27
<b>Drop test</b>	1.2 m

## ORDERING INFORMATION

Description	Part number	Description	Part number
MPAC208 acoustic imaging camera	1016-917		
<b>Included Accessories</b>		<b>Optional Accessories</b>	
Hand straps		Thermal imaging module (364 x 288 resolution)	1016-920
Shoulder strap		Thermal imaging module (640 x 512 resolution)	1016-921
Universal mains power charger		MPAC-V acoustic camera verifier	1016-919
USB-C charging cable		Spare smart battery packs	1016-924
Headphones		MPAC208 Pro Kit with MPAC208 Acoustic Camera, MPAC-V Verifier/Ultrasound Generator and Thermal Camera Module (640 x 512 resolution)	1016-922
Carry case			
64 GB microSD card			
USB-A microSD card reader			
8 GB USB-C/USB-A memory stick			
Cleaning tool			
Smart battery pack (x2)			
Smart battery charger			
Acoustic & Thermal Analysis Software			

### SALES OFFICE

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### MPAC208\_DS\_EN\_V02

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ISO 9001  
The word 'Megger' is a registered trademark

**Megger**<sup>®</sup>

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## Geautoriseerd Service Centrum

EURO-INDEX is van de meeste merken in ons assortiment een Geautoriseerd Service Centrum. Dit betekent dat uw instrumenten worden behandeld door technici die zijn opgeleid door de fabrikant en beschikken over de juiste gereedschappen en software. Er worden uitsluitend originele onderdelen toegepast en de garantie van uw instrument blijft intact, net als de certificering (ATEX, EN50379, etc.).

## Kalibratielaboratorium

Ons moderne service- en kalibratielaboratorium beschikt over een RvA accreditatie naar NEN-EN-ISO/IEC 17025. Deze accreditatie geldt voor grootheden, zoals gespecificeerd in de scope bij [accreditatienummer K105](#).



**Kijk voor een overzicht van al onze diensten op [euro-index.nl/diensten](http://euro-index.nl/diensten)**

## KWS®

KWS® is een unieke kalibratieformule voor uw test- en meetinstrumenten met periodiek onderhoud en kalibratie tegen vaste, lage kosten.

Uw kalibratiecertificaten zijn digitaal beschikbaar via Mijn KWS (gratis webportaal en app) en door de QR-code te scannen van de kalibratiesticker op het instrument.

## Verhuur van meetinstrumenten

Er zijn diverse situaties waarbij huren handig is:

- U heeft tijdelijk extra toestellen nodig.
- Uw eigen meetinstrument wordt onderhouden en/of gekalibreerd.
- U moet een eenmalige meting verrichten.

## EURO-INDEX Academy

- Trainingen (individueel en klassikaal)
- Cursussen, infosessies en workshops
- Demonstratie- en instructievideo's
- Whitepapers



Servicebalie



Onderhoud, reparatie en kalibratie



Cursussen en workshops



Kalibratielaboratorium

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