

# MPAC128 & MPAC128 ATEX

## THE NEW ACOUSTIC IMAGER FROM MEGGER



Reducing costs and risks, and maximising workplace effectiveness, are at the top of your agenda. But how can you protect your site, people, profits, and productivity from threats that are invisible to the naked eye? You choose the MPAC-128 from Megger.

Our state-of-the-art acoustic imager visualises gas leaks and partial discharge with unrivalled clarity - helping you address issues before they lead to safety incidents, compliance violations, equipment damage, resource wastage and costly unplanned downtime.

Megger's ATEX-certified and IP54-rated acoustic imager offers non-contact detection up to a distance of 120 metres, aiding safe and fast diagnosis. Other features include:

- 128 Microphone array
- Detection frequency up to 48 kHz
- Detection range up to 120 m
- 8 MP Optical camera resolution
- Display rate of 25 fps
- Detects multiple gas types
- Leak rate quantification
- Phase resolved partial discharge (PRPD)
- Ultrasonic monitoring
- Expandable memory storage
- IP54 rating

Reduce risks and unlock efficiencies across your site with the MPAC-128 acoustic imager from Megger.

Confidence that's Crystal Clear.



## ACOUSTIC SPECIFICATION

|                                 |                                                                                |
|---------------------------------|--------------------------------------------------------------------------------|
| Microphone array                | 128 channels MEMS microphone, Structural vibration monitoring and localization |
| Effective test bandwidth        | 2kHz-48kHz                                                                     |
| Dynamic range                   | 0.5dB-12dB up to 110 dB                                                        |
| Test sound pressure level range | 25.7-132.5dBA                                                                  |
| Auto max/min dB gain            | User-settable, minimum test bandwidth 1kHz                                     |
| Number of digits                | 24bit                                                                          |
| Sound image FOV                 | 62°                                                                            |
| Sound image frame rate          | At least 25 FPS                                                                |
| Leak detection rate             | 10m 5bar 0.92ml/s<br>0.5m 5bar 0.55ml/s                                        |
| Detect distances                | 0.3m-120m                                                                      |

## CAMERA

|                     |                           |
|---------------------|---------------------------|
| Camera FOV          | 62° 2x Zoom in            |
| Camera focal length | 3.04mm fixed focal length |
| Camera pixel        | 8 million pixel           |

## STORAGE

|                     |                                                   |
|---------------------|---------------------------------------------------|
| Internal storage    | About 8G                                          |
| External storage    | TF memory card, at least 64G, expandable to 256G  |
| Data storage format | .jpg (Picture), .mp4 (Video) and .wav (Recording) |
| Video length        | 5 minutes                                         |
| Digital export      | micro-SD Card                                     |

## DISPLAY

|                   |                                                    |
|-------------------|----------------------------------------------------|
| Resolution        | 1024*600 (614,400 pixels)                          |
| Size              | 7 inch                                             |
| Touch screen      | Capacitive touch screen                            |
| Brightness        | Adjustable                                         |
| Photo notes       | Up to 5 photos notes for reference                 |
| Source            | Show single or multiple sources                    |
| Standard palettes | 3: Grayscale, Ironbow, Blue-Red                    |
| Playback function | View photos, videos anytime, and add notes or tags |

## POWER

|                   |                                                                                |
|-------------------|--------------------------------------------------------------------------------|
| Battery capacity  | 1×6600mAH@7.2V Rechargeable battery and 1×external battery package, continuous |
| Battery life      | 4+6 hours operation time                                                       |
| Charger           | USB Type-C port, USB PD protocol supported, 15W                                |
| Power consumption | 15W for battery charge; 29W for maximum power consumption                      |
| Energy management | Sleep/Auto power off modes                                                     |

## OPERATING ENVIRONMENT

|                       |                                          |
|-----------------------|------------------------------------------|
| Operating environment | -20°C - +50°C<br>10%-95% no condensation |
| Storage temperature   | -20°C – +40°C                            |
| Charging temperature  | 10°C – +45°C                             |

## GENERAL SPECIFICATION

|                              |                                                                              |
|------------------------------|------------------------------------------------------------------------------|
| Ingress Protection (IP)      | IP54                                                                         |
| Size                         | 272mm×174mm×42mm                                                             |
| Weight                       | 1.7kg                                                                        |
| Warranty                     | 2 years                                                                      |
| Self-diagnostic notification | Array-health test function to identify when microphone array needs attention |
| System                       | Linux system                                                                 |
| Certification                | CE, FCC, RoHS-compliant, MSDS, CNEX, ATEX (under qualification.)             |

## INTERFACE

USB 3.0 Type-C USB host port

3.5mm headphone socket

## SUPPORTED LANGUAGE

English, French, Chinese, German, Italian, Japanese, Korean,  
Norwegian, Polish, Portuguese, Russian, Spanish, Swedish

## SOFTWARE

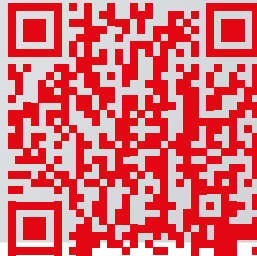
Report types

Gas/Electricity,  
ISO 50001-compliant

Analysis

Waveform, Spectrum,  
Spectrogram, leakage assessment,  
discharge type discrimination

German Catalogue



English Catalogue



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Changes and errors excented

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