

## MPAC-TM384 and MPAC-TM640 Thermal Modules for MPAC208



- 384 x 288 or 640 x 512 Thermal resolution
- Plug and play integration with MPAC208
- Simple USB-C keyed connection
- Thermal reporting using the Analyst software
- Robust aluminum housing

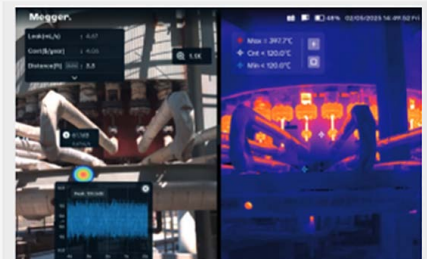
### DESCRIPTION

The MPAC-TM384 and MPAC-TM640 Thermal Modules are designed to be used with Meggers MPAC208 Acoustic Imaging Camera, and give users the flexibility to perform thermal imaging alongside the existing acoustic imaging capability. The Thermal Modules are connected to the MPAC208 using a simple, keyed, USB-C port at the top of the camera. The MPAC firmware already supports the use of both modules, so no further set-up is required.

The MPAC-TM384 includes a comprehensive 384 x 288 thermal sensor, with the MPAC-TM640 stepping up to a professional 640 x 512 sensor. Both units are capable of generating high-resolution thermal images and will capture all the temperature data across the image. Through the MPAC208 user interface, relevant parameters can be set to improve the accuracy of the readings, as well as recording vital detail on the asset being measured. A x6 digital zoom is also available to aid pinpointing of issues.

All thermal images and videos captured whilst using the MPAC-TM modules can be imported into the Analyst software, along with the acoustic data, for further analysis and detailed report generation.

Example of thermal image taken with the MPAC-TM640.



Produce reports with the MPAC208 and include thermal images and results.



### ORDERING INFORMATION

| Description                   | Part number |
|-------------------------------|-------------|
| MPAC-TM384 (384 x 288 sensor) | 1016-920    |
| MPAC-TM640 (640 x 512 sensor) | 1016-921    |

**SALES OFFICE**  
Megger Limited

**MPAC-TM384\_DS\_EN\_V02**

ISO 9001  
The word 'Megger' is a registered trademark

## MPAC-TM384 and MPAC-TM640 Thermal Modules for MPAC208

### SPECIFICATIONS

|                                 | MPAC-TM384   | MPAC-TM640   |
|---------------------------------|--|--|
| <b>Imaging and optics</b>       |  |  |
| Detector type                   | 8 to 14 $\mu\text{m}$  | 8 to 14 $\mu\text{m}$  |
| Infrared resolution             | 384*288 @ 17 $\mu\text{m}$   | 640*512 @ 12 $\mu\text{m}$   |
| NETD                            | 60 mK @25 °C#1.0   | 60 mK @25 °C#1.0   |
| Frame rate                      | 25 Hz  | 25 Hz  |
| Focal length                    | 13 mm  | 13 mm  |
| Field of view                   | 28.4° * 21.4°  | 32.9° * 26.6°  |
| IFOV                            | 1.79 mrad  | 0.923 mrad   |
| Min. object distance            | 0.1 m  | 0.14 m   |
| D:S                             | 60:1   | 90:1   |
| Focusing mode                   | Manual   | Manual   |
| Digital zoom                    | 1x - 6x  | 1x - 6x  |
| Temperature range               | -20 °C to +120 °C<br>120°C to +550°C   | -20 °C to +120 °C<br>120°C to +550°C   |
| <b>Measurement and analysis</b> |  |  |
| Measurement accuracy            | ±3%(±3% of the range, take the maximum value)  | ±3%(±3% of the range, take the maximum value)  |
| Parameter settings              | Temperature scale, Temperature unit, Distance, Emissivity, Thermal correction, Ambient temperature, Reflection, Humidity | Temperature scale, Temperature unit, Distance, Emissivity, Thermal correction, Ambient temperature, Reflection, Humidity |
| <b>Image display</b>            |  |  |
| Thermal palette                 | White-hot, Black-hot, Ironbow, HC Rainbow, Rainbow, Grayscale  | White-hot, Black-hot, Ironbow, HC Rainbow, Rainbow, Grayscale  |
| <b>Power</b>                    |  |  |
| Power                           | DC 5 V, 0.05 A   | DC 5 V, 0.05 A   |
| Port                            | USB-C  | USB-C  |
| <b>Environment parameters</b>   |  |  |
| Operating temperature           | -20 °C to +50 °C   | -20 °C to +50 °C   |
| IP rating                       | IP53   | IP53   |
| Drop test                       | 1.2 m  | 1.2 m  |
| Certification                   | CE, RoHS   | CE, RoHS   |
| <b>Physical parameters</b>      |  |  |
| Size                            | 35 x 50 x 42 mm  | 35 x 50 x 42 mm  |
| Weight                          | 56 g   | 60 g   |
| Material                        | Aluminium  | Aluminium  |