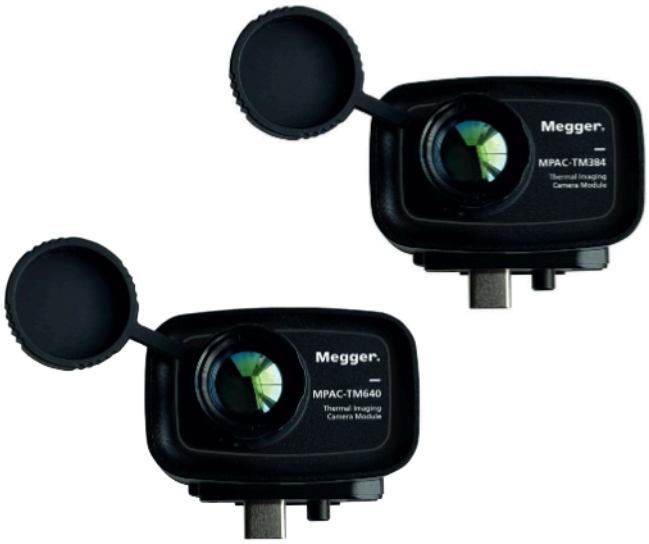
MPAC-TM384 and MPAC-TM640
Thermal Modules for MPAC208



- 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

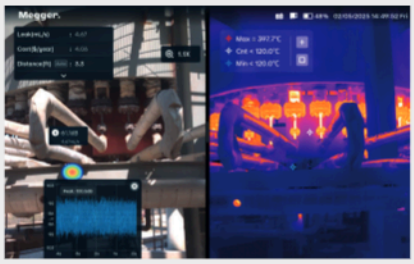
DESCRIPTION

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.

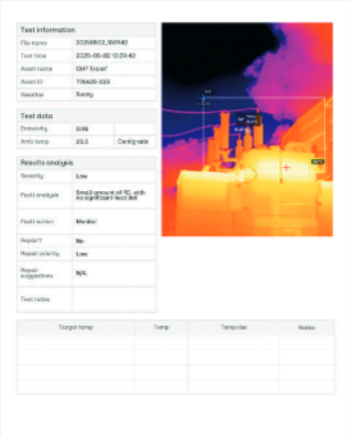
The MPAC-TM384 includes a comprehensive 384 x 288 thermal sensor, with the MPAC-TM640 stepping up to a professional 640 x 512 sensor. Both units are capable of generating high-resolution thermal images and will capture all the temperature data across the image. Through the MPAC208 user interface, relevant 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
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ISO 9001

MPAC-TM384 and MPAC-TM640
Thermal Modules for MPAC208

SPECIFICATIONS

	MPAC-TM384	MPAC-TM640
Imaging and optics		
Detector type	8 to 14 µm	8 to 14 µm
Infrared resolution	384*288 @ 17 µm	640*512 @ 12 µm
NETD	60 mK @25 °CF#1.0	60 mK @25 °CF#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 120˚C to +550˚C	-20 °C to +120 °C 120˚C to +550˚C
Measurement and analysis		
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
Image display		
Thermal palette	White-hot, Black-hot, Ironbow, HC Rainbow, Rainbow, Grayscale	White-hot, Black-hot, Ironbow, HC Rainbow, Rainbow, Grayscale
Power		
Power	DC 5 V, 0.05 A	DC 5 V, 0.05 A
Port	USB-C	USB-C
Environment parameters		
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
Physical parameters		
Size	35 x 50 x 42 mm	35 x 50 x 42 mm
Weight	56 g	60 g
Material	Aluminium	Aluminium