

## 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

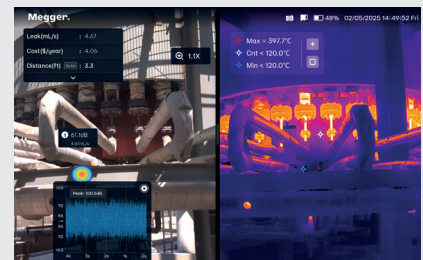
### DESCRIPTION

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.

Test information			
File name	20250502_103942		
Test time	2025-05-02 10:39:42		
Asset name	CHF Transfer		
Asset ID	79625-223		
Weather	Sunny		
Test data			
Emissivity	0.98		
Amb temp	25.0 Centigrade		
Results analysis			
Severity	Low		
Fault analysis	Small amount of IR, with no significant heat data		
Fault action	Monitor		
Repair?	No		
Repair priority	Low		
Repair suggestions	N/A		
Test notes			
Target temp	Temp	Temp (s)	Notes

### ORDERING INFORMATION

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

### SALES OFFICE

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### MPAC-TM384\_DS\_EN\_V01

www.megger.com  
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 °CF#1.0	60 mK @25 °CF#1.0
Frame rate	25 Hz	25 Hz
Focal length	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
<b>Measurement and analysis</b>		
Measurement accuracy	$\pm 3\%$ ( $\pm 3\%$ of the range, take the maximum value)	$\pm 3\%$ ( $\pm 3\%$ 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