

<http://www.irtek-temp.com/>

IRtek International

M400

Do you need to calibrate your IR thermometer ?

If you use it just as a diagnostic or troubleshooting tool, probably not. On the other hand, if you are using a fixed sensor for process control, or making critical measurements, you probably should calibrate your thermometer. IR thermometers are calibrated using a black body calibration source. A blackbody calibrator is a calibrated precision temperature source with perfect emissivity. Calibration is performed by pointing the thermometer at the calibrator target, and comparing or adjusting the output or display. Blackbody sources can cost from a few hundred to more than \$20,000 depending on the temperature range. IRtek provide calibration / verification facility using certified blackbody M400.

Range	50 ~ 400°C (122 ~ 752°F)
Accuracy	±0.8°C at T @ 100°C (±1.44°F at T @ 212°F)
	±1.6°C at 100°C
	±2.8°C at 200°C
Stability	±0.1°C at T @ 100°C (±0.18°F at T @ 212°F)
	±0.2°C at 100°C
	±0.4°C at 200°C
Target emissivity	0.95
Resolution	0.1°C (0.18°F)
Heating Time	30 minutes to max
Cooling Time	30 minutes to 100°C (212°F)
Aperture Diameter	58mm
Power	220VAC(±10%), 1.25A or 110VAC(±10%), 2.5A
Size	180 x 114 x 233mm
Weight	3kg

[Vendor Information](#)