

<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.

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|-------------------|--|
| 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](#)