

VT06/VT08/VT08-II

Visual IR Thermometer

Product Specifications

General Specifications

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|--|--|
| Temperature | |
| Operating | -10 °C to 50 °C (14 °F to 122 °F) |
| Storage | -20 °C to 60 °C (-4 °F to 140 °F) |
| Relative humidity | Noncondensing (<10 °C or 50 °F) ≤90%RH (at 10 °C to 30 °C or 50 °F to 86 °F) ≤75%RH (at 30 °C to 40 °C or 86 °F to 104 °F) ≤45%RH (at 40 °C to 50 °C or 104 °F to 122 °F) |
| Altitude | |
| Operating | 2000 m (1.24 mi) |
| Storage | 12 000 m (7.5 mi) |
| Display | 6.096 cm (2.4 in) LCD |
| Power | |
| Battery | Rechargeable Lithium-ion battery |
| Battery life, as tested | ≥5 hours continuous (VT08/VT08-II) ≥8 hours continuous (VT06) Actual battery life depends on settings and usage |
| Charge time | ≤2.5 hours to full charge |
| Battery charge temperature | 0 °C to 45 °C (32 °F to 113 °F) |
| Battery charging system | In-Thermometer charging |
| AC power adapter | AC operation with included power supply, universal adapters included Output: 5 VDC, 2 A |
| Power save | Enables or disables auto power off |
| Safety | |
| General | IEC 61010-1: Pollution Degree 2 |
| Laser (optional) | IEC 60825-1: Class 2 650 nm, <1 mW |
| Ingress protection | IEC 60529: IP65 (with type C cover) |
| Battery | IEC 62133-2, UN 38.3 |
| Electromagnetic Compatibility (EMC) | |
| International | IEC 61326-1: Industrial Electromagnetic Environment CISPR 11: Group 1, Class A |
| <p><i>Group 1: Equipment has intentionally generated and/or uses conductively coupled radio frequency energy that is necessary for the internal function of the equipment itself.</i></p> <p><i>Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.</i></p> <p><i>Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.</i></p> | |
| Korea (KCC) | Class A Equipment (Industrial Broadcasting & Communication Equipment) |
| <p><i>Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.</i></p> | |
| USA (FCC) | 47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103. |
| Drop | 2 m |

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| | |
|-------------------------|---|
| Size (H x W x L) | 20.4 cm x 6.6 cm x 7.6 cm (8 in x 2.6 in x 2.99 in) |
| Weight | VT08/VT08-II: 0.36 kg (0.79 lb); VT06: 0.35 kg (0.77 lb) |
| Language | English, Simplified Chinese, Traditional Chinese, Japanese, Korean, Spanish, Portuguese |

Accuracy Specifications

| Operating Temperature | Measure Range | Specification |
|--|---------------------------------|--|
| -10 °C to 4.99 °C (14 °F to 40.98 °F) | >0 °C (32 °F) | ±4 °C (7.2 °F) or ±4 % of reading (whichever is greater) |
| | -20 °C to 0 °C (-4 °F to 32 °F) | ±10 °C (18.0 °F) |
| 5 °C to 29.99 °C (41 °F to 85.98 °F) | >0 °C (32 °F) | ±2 °C (3.6 °F) or ±2 % of reading (whichever is greater) |
| | -20 °C to 0 °C (-4 °F to 32 °F) | ±5 °C (9.0 °F) |
| 30 °C to 50 °C (86 °F to 122 °F) | >0 °C (32 °F) | ±4 °C (7.2 °F) or ±4 % of reading (whichever is greater) |
| | -20 °C to 0 °C (-4 °F to 32 °F) | ±10 °C (18.0 °F) |

Detailed Specifications

| | VT08/VT08-II | VT06 |
|--|--|------|
| Measurement Temperature Range | -20 °C to 400 °C (-4 °F to 752 °F) | |
| Target Distance Range | 0.5 m to 1.2 m (19.7 in to 47.2 in) | |
| Thermal Image Features | | |
| Frame rate | 9 Hz or 22 Hz depending on model variation | |
| Infrared resolution | 120 x 90 | |
| Noise Equivalent Temperature Difference (NETD) | <60 mK | |
| Spectral band | 7.5 µm to 14 µm (long wave) | |
| Field of View (H x V) | 50 ° x 37.5 ° | |
| Spatial resolution (IFOV) | 7.6 mRad | |
| Minimum focus distance | 0.5 m (19.7 in) | |
| Visual (visible light) features | | |
| Minimum focus distance | 0.5 m (fixed focus) | N/A |
| Resolution | 320 x 240 | N/A |
| Field of View (H x V) | 53 ° x 41 ° | N/A |
| Flashlight | Yes | No |
| Laser Pointer | Yes | Yes |
| Palette | WhiteHot, IronRed, HotIron, RainBow1, RainBow2, Arctic | |
| Image Capture and Data Storage | | |
| Internal storage | 28 GB (>100 000 images) | |
| File Formats | JPEG compression format (.jpg) | |
| Memory Review | Full screen review | |
| Picture in Picture (PIP) | Yes | No |