

**VT06/VT08™**  
Visual IR Thermometer

Product Specifications

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Specifications are subject to change without notice.

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## General Specifications

<b>Temperature</b>	
Operating	-10 °C to 50 °C (14 °F to 122 °F)
Storage	-20 °C to 60 °C (-4 °F to 140 °F)
<b>Relative humidity</b>	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)
<b>Altitude</b>	
Operating	2000 m (1.24 mi)
Storage	12 000 m (7.5 mi)
<b>Display</b>	6.096 cm (2.4 in) LCD
<b>Power</b>	
Battery	Rechargeable Lithium-ion battery
Battery life, as tested	≥5 hours continuous (VT08) ≥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
<b>Safety</b>	
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
<b>Electromagnetic Compatibility (EMC)</b>	
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.
<b>Drop</b>	2 m

## VT06/VT08

### Product Specifications

<b>Size (H x W x L)</b>	20.4 cm x 6.6 cm x 7.6 cm (8 in x 2.6 in x 2.99 in)
<b>Weight</b>	VT08: 0.36 kg (0.79 lb); VT06: 0.35 kg (0.77 lb)
<b>Language</b>	Simplified Chinese, Traditional Chinese, Japanese, Korean

## Accuracy Specifications

<b>Operating Temperature</b>	<b>Measure Range</b>	<b>Specification</b>
-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

	<b>VT08</b>	<b>VT06</b>
<b>Measurement Temperature Range</b>	-20 °C to 400 °C (-4 °F to 752 °F)	
<b>Target Distance Range</b>	0.5 m to 1.2 m (19.7 in to 47.2 in)	
<b>Thermal Image Features</b>		
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)	
<b>Visual (visible light) features</b>		
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
<b>Palette</b>	WhiteHot, IronRed, HotIron, RainBow1, RainBow2, Arctic	
<b>Image Capture and Data Storage</b>		
Internal storage	28 GB (>100 000 images)	
File Formats	JPEG compression format (.jpg)	
Memory Review	Full screen review	
Picture in Picture (PIP)	Yes	No