



## Heavyweight for thermography

### Overview

Behold **the highest class of thermal imagers** that offers temperature measurements of substantial accuracy. Robustly designed and constructed, they are ideally suited for:

- troubleshooting electrical installations, wiring, panels, motors, breakers, transformers, switchgear, and electrical equipment,
- monitoring the thermal performance of industrial manufacturing processes,
- identifying overheating of mechanical and electro-mechanical components,
- inspecting buildings for insulation leaks, energy audits, HVAC/R equipment, water damage, and pests,
- locating hidden heat sources (of people, animals, objects) in dark or low-light conditions.

The touchscreen as well as the lens swivel independently to view objects of interest that are difficult to access from any angle. The large number of functions, intuitive handling and excellent ergonomics make the KT-560/650/670/1K imagers perfect for **every advanced thermographer**.

### Features

- Image files saved in JPG format (complete image data).
- Recording of IR videos (on SD memory card or computer hard disk).
- Built-in reports module.
- MIF image combining mode.
- Extensive image analysis tools.
- Built-in camera for capturing images within the visible light spectrum.
- Built-in: GPS, digital compass, LED flashlight, laser pointer, laser rangefinder.
- Interfaces: USB type C, Wi-Fi, Gigabit Ethernet, micro HDMI, SD memory card slot, Bluetooth.
- Digital zoom.
- Interchangeable lenses that do not require calibration by the manufacturer.



# Specifications

	KT-560	KT-650	KT-670	KT-1K
<b>Detector resolution</b>	384 x 288 / 17 µm	640 x 480 / 17 µm		1024 x 768 / 12 µm
<b>Spectral range</b>	7.5~14 µm			
<b>Thermal sensitivity</b>	45 mK	40 mK	35 mK	≤30 mK
<b>Lens (field of view / focal length / instantaneous field of view / min. focus distance)</b>				
• standard	24.9° x 18.7° / 15 mm / 1.13 mrad / 0.4 m	24.6° x 18.5° / 25 mm / 0.68 mrad / 0.3 m		24.6° x 18.5° / 28 mm / 0.43 mrad / 0.3 m
• wide angle	48.1° x 35.9° / 7.78 mm / 2.19 mrad / 0.15 m	45.4° x 34.8° / 13 mm / 1.31 mrad / 0.15 m		-
• telephoto	11.2° x 8.4° / 33 mm / 0.52 mrad / 2 m	11.3° x 8.5° / 55 mm / 0.31 mrad / 1.5 m		-
• ultra-telephoto	7.3° x 5.5° / 50.7 mm / 0.34 mrad / 4 m	7.3° x 5.5° / 85 mm / 0.2 mrad / 4 m		-
• macro	23.3 mm x 17.5 mm / 67 mm / - / 60.7 µm	23.3 mm x 17.5 mm / 67 mm / - / 37.5 µm		-
• high temp	24.9° x 18.7° / - / - / -	24.6° x 18.5° / - / - / -		24.6° x 18.5° / - / - / -
<b>Display</b>	5", 1280 x 720 high brightness, LCD touchscreen			
<b>Viewfinder</b>	1280 x 960 LCOS			
<b>Image modes</b>	IR / Visual / Infrarufusion MIF / PiP			
<b>Digital zoom</b>	1...10		1...35	
<b>Temperature range</b>	Range 1: -40°C...150°C Range 2: 100°C...800°C Optional: 700°C...2000°C			
<b>Accuracy</b>	±2°C or ±2% of reading		±1°C or ±1% of reading	
<b>Image analysis modes</b>	12 points, 12 lines, 12 areas. Temperature indication: min, max, average. Isotherm. Temperature alarm. Smart stroke.	16 points, 16 lines, 16 areas. Temperature indication: min, max, average. Isotherm. Temperature alarm. Smart stroke.	30 points, 30 lines, 30 areas. Temperature indication: min, max, average. Isotherm. Temperature alarm. Smart stroke.	
<b>Palettes</b>	8	10		12
<b>Super-resolution</b>	4x, 768 x 576	4x, 1280 x 960		2048 x 1536
<b>Panoramic images</b>	-		√	
<b>Emissivity coefficient</b>	Selectable from 0.01 to 1.00			
<b>Measurement adjustment</b>	Auto-adjustable distance, relative humidity, ambient temperature (reflected)			
<b>File format</b>	JPG			
<b>IR image annotations</b>	Additional visual photos, voice, text recognition, text typing			
<b>Reports module</b>	PDF reports			
<b>Video file format</b>	MP4 (without temp. information), IRGD (including temp. information)			
<b>Built-in features</b>	Visual camera 13 MPix, LED flashlight, GPS, laser pointer, laser rangefinder, microphone, speaker, digital compass, light sensor			
<b>Wireless communication</b>	Wi-Fi, Bluetooth			
<b>Storage</b>	Built-in memory (64 GB), SD card, cloud service			
<b>Interface</b>	SD card slot (max. 64 GB), LAN 1 Gb/s, micro HDMI, USB type C (data transfer only), tripod			
<b>Power supply</b>	Li-ion battery (4 h of continuous operation), built-in charger, AC adapter 110-230 V, 50/60 Hz		Li-ion battery (3 h of continuous operation), built-in charger, AC adapter 110-230 V, 50/60 Hz	
<b>Operating temperature</b>	-20°C...+50°C   -4°F...122°F			
<b>Storage temperature</b>	-40°C...+70°C   -40°F...+158°F			
<b>Humidity</b>	≤95%			
<b>Shock/Vibration</b>	30g 11 ms (IEC 60068-2-27)			
<b>Ingress protection</b>	IP54			
<b>Weight</b>	ca. 1.4 kg   3.1 lbs (with battery)		ca. 1.5 kg   3.3 lbs (with battery)	

## Standard accessories

	KT-560	KT-650	KT-670	KT-1K
<b>2 x Li-Ion battery 10.8 V 3.35 Ah</b> WAAKU18	✓	✓	✓	✓
<b>Power supply Z13</b> WAZASZ13	✓	✓	✓	✓
<b>External battery charger Z14</b> WAZASZ14			✓	✓
<b>Type C USB cable</b> WAPRZUSBC	✓	✓	✓	✓
<b>LAN cable (RJ45)</b> WAPRZRJ45	✓	✓	✓	✓
<b>Micro HDMI cable</b> WAPRZMIKROHDMI	✓	✓	✓	✓
<b>SD card 64 GB</b> WAPOZSD64	✓	✓	✓	✓
<b>Shoulder harness</b> WAPOZPAS3	✓	✓	✓	✓
<b>XL9 carrying case</b> WAWALXL9	✓	✓	✓	✓
<b>Factory calibration certificate</b>	✓	✓	✓	✓



## Optional accessories

	KT-560	KT-650	KT-670	KT-1K
<b>High temperature filter 2000°C</b> WAADAOF1	✓	✓	✓	✓
<b>Wide-angle IR lens 48.1° x 35.9° / 7.78 mm for KT-560</b> WAADA08V560	✓			
<b>Wide-angle IR lens 45.4° x 34.8° / 13 mm for KT-650/670</b> WAADA013V6701		✓	✓	
<b>Tele IR lens 11.2° x 8.4° / 33 mm for KT-560</b> WAADA033V560	✓			
<b>Tele IR lens 11.3° x 8.5° / 55 mm for KT-650/670</b> WAADA055V6701		✓	✓	
<b>External battery charger Z14</b> WAZASZ14	✓	✓	✓	✓
<b>HDMI / RCA converter</b> WAADAHDMIXRCP	✓	✓	✓	✓
<b>M11 carrying case</b> WAFUTM11	✓	✓	✓	✓
<b>Calibration certificate with accreditation</b>	✓	✓	✓	✓

