



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.



Specifications

	KT-560	KT-650	KT-670	KT-1K
Detector resolution	384 x 288 / 17 µm	640 x 480 / 17 µm		1024 x 768 / 12 µm
Spectral range		7.5~14 µm		
Frame rate		30 Hz		
Thermal sensitivity	45 mK	40 mK	35 mK	≤30 mK
Focus		Manual / Auto		
Lens (field of view / focal length / instantaneous field of view / min. focus distance)				
• 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° / - / - / -
Display		5", 1280 x 720 high brightness, capacitive LCD touchscreen		
Viewfinder		1280 x 960 LCOS		
Image modes		IR / Visual / Infrarufusion MIF / PiP		
Digital zoom	1...10		1...35	
Temperature range		Range 1: -40°C...150°C Range 2: 100°C...800°C Optional: 700°C...2000°C		
Accuracy	±2°C or ±2% of reading		±1°C or ±1% of reading	
Image analysis modes	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.	
Palettes	8	10	12	
Super-resolution	4x, 768 x 576	4x, 1280 x 960		2048 x 1536
Panoramic images	-		√	
Emissivity coefficient		Selectable from 0.01 to 1.00		
Measurement adjustment		Auto-adjustable distance, relative humidity, ambient temperature (reflected)		
File format		JPG		
IR image annotations		Additional visual photos, voice, text recognition, text typing		
Reports module		PDF reports		
Video file format		MP4 (without temp. information), IRGD (including temp. information)		
Built-in features	Visual camera 13 MPix, LED flashlight, GPS, laser pointer, laser rangefinder, microphone, speaker, digital compass, light sensor			
Wireless communication		Wi-Fi, Bluetooth		
Storage		Built-in memory (64 GB), SD card, cloud service		
Interface	SD card slot (max. 64 GB), LAN 1 Gb/s, micro HDMI, USB type C (data transfer only), tripod			
Power supply		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
Operating temperature		-20°C...+50°C -4°F...122°F		
Storage temperature		-40°C...+70°C -40°F...+158°F		
Humidity		≤95%		
Shock/Vibration		30g 11 ms (IEC 60068-2-27)		
Ingress protection		IP54		
Weight		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
2 x Li-Ion battery 10.8 V 3.35 Ah WAAKU18	✓	✓	✓	✓
Power supply Z13 WAZASZ13	✓	✓	✓	✓
External battery charger Z14 WAZASZ14			✓	✓
Type C USB cable WAPRZUSBC	✓	✓	✓	✓
LAN cable (RJ45) WAPRZRJ45	✓	✓	✓	✓
Micro HDMI cable WAPRZMIKROHDMI	✓	✓	✓	✓
SD card 64 GB WAPOZSD64	✓	✓	✓	✓
Shoulder harness WAPOZPAS3	✓	✓	✓	✓
XL9 carrying case WAWALXL9	✓	✓	✓	✓
Factory calibration certificate	✓	✓	✓	✓



Optional accessories

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

