



KT-670/650/560

Thermal Imaging Camera



OVERVIEW

The Sonel KT Series Thermal Imagers are budget-friendly yet offer highly accurate temperature measurements. 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 / low-light conditions.

USER FRIENDLY OPERATION

The user-friendly design, light weight, and intuitive handling make Sonel thermal cameras a pleasure to use. Experienced or new users needing a professional diagnostic tool will find the menus easy to navigate via the touchscreen. Both the touchscreen and the lens swivel independently to view objects of interest that are difficult to access from any angle.

KEY FEATURES

- » Removable Li-ion battery with 4 hour working time;
- » 5" large rotating touchscreen with no image cropping;
- » High brightness display gives detailed information in high ambient light or outdoors;
- » Save IR images and videos (to SD card or directly to a PC);
- » Built-in Report module for complete thermal analysis in the camera;
- » View images as: IR, visual, "picture in picture" and MIF mode (combined visual and IR);
- » Add voice and text notes, draw graphical symbols (arrows or circles) on images
- » 5Mpix visual camera;
- » GPS, digital compass, LED flashlight and laser pointer;
- » Micro USB 2.0, Wi-Fi, Bluetooth®, Gigabit Ethernet, Mini USB and SD slot for data transfer;
- » ThermoAnalyze2 Software for PC.





SPECIFICATIONS

Model	KT-560	KT-650	KT-670
Detector type	400x300	640x480	
Spectral range	8 to 14 um		
Thermal sensitivity	50mk	40mk	30mk
Lens (FOV /focal length)	22.6°*17.1°/25mm (optional: 42.1°*32.2°/13mm or 10.4°*7.8°/55mm)	24.6°*18.5°/25mm (optional: 45.4°*34.9°/13mm or 11.3°*8.5°/55mm)	
Display	5", 1280x720, HQ touch LCD		
Viewfinder	1280x960 LCOS		
Picture type	IR image/Visual image/PIP/MIF (combined)		
Zoom	1 to 4x	1 to 10x	
Temperature range	Filter 1: -20°C to 150°C / -4°F to 302°F Filter 2: 150°C to 800°C / 302°F to 1472°F Optional Filter: up to 2000°C / 3632°F		
Accuracy	±2°C or 2% of reading	±1°C or 1% of reading for Filter 1: -20°C to 150°C ±2°C or 2% of reading	
Image Analysis Modes	5 points, 2 lines, 5 polygons; temperature display: min, max, avg; isotherm; dew point; temperature alarm	8 points, 8 lines, 8 polygons; temperature display: min, max, avg; isotherm; dew point; temperature alarm	10 points, 10 lines, 10 polygons; temperature display: min, max, avg; isotherm; dew point; temperature alarm
Palette	8	10	
Emissivity	adjustable from 0.01 to 1.00 or from the list of materials		
Measurement correction	adjustable: distance, relative humidity, ambient temperature		
File format	JPG		
Notes to pictures	Voice note (up to 60s), text, graphical		Voice note (up to 60s), text, graphical, additional visual pictures
Reports module	Reports to PDF, printing via WiFi directly from the camera, or via PC		
Video file format	H.264 (with temperature info)		
Built-in functions	Visual camera 5MP, LED flashlight, GPS, laser pointer, microphone, loudspeaker, digital compass, light sensor		
Wireless communication	WiFi	WiFi / Bluetooth®	
Interface	SD card, LAN 1 Gb/s, mini HDMI, micro USB 2.0		
Power supply	Li-ion battery (work time >4 hours), built-in charger, AC adapter 110-230 V, 50/60Hz		
Work temperature	-15°C to 50°C / 5°F to 122°F		
Storage temperature	-40°C to 70°C / -40°F to 158°F		
Humidity	10% to 95%		
Shock / vibration	25G, IEC 60068-2-29/ 2G, IEC 60068-2-6		
Casing	IP54		
Weight	1.3 kg / 2.9 lbs (with battery)		



STANDARD ACCESSORIES:

Rechargeable Li-Ion battery	WAAKU18
Power adapter	WAZASZ13
USB cable(A to Micro B Type)	WAPRZUSBMICRO
RJ45 cable	WAPRZRJ45
HDMI cable	WAPRZHDMI
16G SD memory card	WAPOZSD16
Shoulder strap	WAPOZPAS3
Soft carrying bag, M11	WAFUTM11
Rugged carrying case, hard, L9	WAWALXL9

ADDITIONAL ACCESSORIES:

External battery charger	WAZASZ14
HDMI to RCA converter	WAADAHDMIXRCP
High temp filter	WAADAOF1
42.1°×32.2°/13mm wide angle lens (KT-560)	WAADAO13V560
10.4°×7.8°/55mm tele lens (KT-560)	WAADAO55V560
45.4°×34.9°/13mm wide angle lens (KT-657/670)	WAADAO13V650
11.3°×8.5°/55mm tele lens (KT-650/670)	WAADAO55V650

