

KT-670 / KT-650 / KT-560

index: WMGBKT670 / WMGBKT650 / WMGBKT560













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 & for charging of the battery will take 2 hours.
- 5" large rotating touchscreen with no image cropping
- High brightness display gives detailed information in high ambient light or outdoors
- Save IR & Visual images and videos at the same time
- 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
- Frame Rate: 30HZ
- 13 Mpix visual camera
- Object distance measurement
- Super resolution 1280 x 960
- GPS, digital compass, LED flashlight and laser pointer
- Type-C USB, Wi-Fi, Bluetooth®, Gigabit Ethernet, Mini USB, and SD slot for data transfer

page 1 / 3

Specifications

	KT-670	KT-650	KT-560	
Detector type	640	640 x 480		
Spectral range		7.5~14 μm		
Thermal sensitivity	30 mK	30 mK	50 mK	
Lens (FOV /focal length)	24.6° x 18.5°/25 mm option: 45.4° x 34.9°/13 mm 11.3° x 8.5°/55 mm 7.3° x 5.5°/85 mm		21.7° x 16.4°/25 mm option: 40.5° x 31.0°/13 mm 10.0° x 7.5°/55 mm 6.7° x 5.1°/85 mm	
FOV/Min. Focus Distance	0.68mrad(25mm)/0.3m 1.31mrad(13mm)/0.15m 0.31mrad(55mm)/2m 0.2mrad(85mm)/4m		0.98mrad(25mm)/0.4m 1.83mrad(13mm)/0.15m 0.45mrad(55mm)/2m 0.30mrad(85mm)/4m	
Display	5", 1280 x 720, HQ touch LCD			
Viewfinder	1280 x 960 LCOS			
Picture type	IR image/Visual image/PIP/MIF (combined)			
Digital Zoom	135	135	14	
Temperature range (Auto Switching)		Range 1: -40°C150°C Range 2: 100°C800°C Optional: 700°C2000°C		
Accuracy		±2°C or 2% of reading		
Image analysis modes	16 points, 16 lines, 16 polygons, temperature display: min, max, avg, isotherm, dew point, temperature alarm	16 points, 16 lines, 16 polygons, temperature display: min, max, avg, isotherm, dew point, temperature alarm	5 points, 2 lines, 5 polygons, temperature display: min, max, avg isotherm, dew point, temperature alarm	
Palette	10	10	8	
Emissivity	Adjustable f	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, additional visual Voice note (up to 60s), text, graphical pictures			
Reports module	Reports to PDF, printing via WiFi directly from the camera, or via PC			
Video file format	MP4, IRGD (with temperature info)			
Built-in functions	Visual camera 13 Mpix, LED flashlight, GPS, laser pointer, microphone, loudspeaker, digital compass, light sensor, object distance measurement			
Wireless communication	Wi-Fi, Bluetooth			
Interface	SD card, LAN 1 Gb/s, mini-HDMI, Type C USB			
Power supply	Li-lon battery (work time >4 hours), built-in charger, AC adapter 110-230 V, 50/60 Hz			
Work temperature	-20°C+50°C			
Storage temperature	-40°C+70°C			
Humidity		10%95%		
Shock / vibration	25G, IEC 60068-2-29 / 2G, IEC 60068-2-6			
Casing		IP54		
Weight	1.3 kg / 2.9 lbs (with battery)			

page 2 / 3 sonel.com

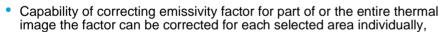
Rechargeable Li-Ion battery	WAAKU18
Power adapter	WAZASZ13
External battery charger (KT-670)	WAZASZ14
USB cable (A to Micro B Type)	WAPRZUSBMICRO
RJ45 cable	WAPRZRJ45
HDMI cable	WAPRZHDMI
64 GB SD memory card	WAPOZSD64
Shoulder strap	WAPOZPAS3
L9 carrying case	WAWALXL9
Calibration certificate issued by an accredited laboratory (no accreditation)	
Optional accessories ————————————————————————————————————	
External battery charger (KT-560/650)	WAZASZ14
HDMI to RCA converter	WAADAHDMIXRCP
High temp filter	WAADAOF1
42.1°×32.2°/13 mm wide angle lens (KT-560)	WAADAO13V560
10.4°×7.8°/55 mm tele lens (KT-560)	WAADAO55V560
45.4°×34.9°/13 mm wide angle lens (KT-657/670)	WAADAO13V650

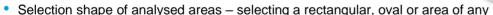
Sonel ThermoAnalyze 2

11.3°×8.5°/55 mm tele lens (KT-650/670)

7.3°×5.5°/85 mm tele lens (KT-650/670)

Software for analyses and reports, included in the thermal imager kit.





Readout of temperature at any point – placing the cursor over the "Information" window results in the continuous readout
of the temperature and current coordinates as well as other available saved information (maximum temperature,
humidity, emissivity).

WAADAO55V650

WAADAO85V650

- Use of Infra Fusion technology a thermal image is overlaid on part of the visual image in any user-selected palette. The thermal image is overlaid with selected transparency, thus allowing for the optimal presentation and the marking of areas of interest, especially, if it is difficult to visually compare spots in the thermogram with the details of the visual image of the object under observation.
- Determining and readout of the minimum, maximum and average temperature for the entire area, as well as for each selected area. Selection of a section (straight line or polyline).
- Creation of reports in a simple way, a report can include all the required elements thermal images, corresponding visual images.
- Records data of all the introduced corrections as well as characteristic points in order to enable further analysis at a later
- Selection of the visually optimal colour palette (from 9 palettes available in the software) for the best visual presentation of temperature changes. Definition of the temperature range for the best presentation of temperature distribution (manual or automatic mode available).
- This software has an unlimited license it can be used simultaneously on many PCs.

page 3/3 sonel.com