KT-550 / KT-530 / KT-525 KT-520 / KT-510

Beyond the limits of visibility

TOUCH SCREEN   **WiFi**   **IP54**

GPS   **BLUETOOTH**   **LASER RANGEFINDER**

Description

Features

Regardless of whether you take photos or record videos, the Sonel KT-510/520/525/530/550 cameras, equipped with modern detectors, a wide range of temperature measurement and high-quality lenses, ensure highly detailed images and accurate measurements. The cameras are available in several versions, thus enabling the appropriate configuration for the user's needs.

Modernity and comfort

A large display with innovative data processing electronics is protected by a solid housing, ensuring the perfect combination of high efficiency and comfortable work.

Moreover, the comfortable handle and easily accessible buttons make the operation highly ergonomic and optimal both for professional and less experienced thermographers.

Thermal imaging is not everything

Cameras are additionally equipped with visual lenses and related image mixing technologies: PIP, MIF. Support from the built-in LED torch and laser improves operational quality by facilitating photography and then image interpretation.

The picture is just the beginning

The built-in report module allows for the preparation and printing out of reports directly from the camera. Built-in communication interfaces ensure constant communication between the camera and the computer or mobile device, also over a wireless network. Thanks to state-of-the-art technologies and solutions, the cameras ensure full control and flexibility in various situations, and are an ideal tool for both novice users and professional thermographic inspectors.

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, SD memory card slot, Bluetooth.
- Digital zoom.
- Interchangeable lenses that do not require calibration by the manufacturer.

Specifications

	KT-510	KT-520	KT-525	KT-530	KT-550
Detector resolution	256 x 192 / 12 µm	320 x 240 / 12 µm	384 x 288 / 12 µm	480 x 360 / 12 µm	640 x 480 / 12 µm
Spectral range	7.5~14 µm VOx				
Thermal sensitivity	≤45 mK				≤40 mK
Focus	Manual / Auto				
IFOV	1.70 mrad	1.36 mrad	1.13 mrad	0.91 mrad	0.68 mrad
Min. focus distance	0.1 m	0.1 m	0.15 m	0.15 m	0.15 m
Lens (field of view/focal length)	25° x 19° / 10.5 mm	25° x 19° / 10.5 mm	25° x 19° / 10.5 mm	25° x 19° / 17.7 mm	25° x 19° / 17.7 mm
Display	4.3", 800 x 480 high brightness, LCD touchscreen				
Image modes	IR / Visual / Infrafusion MIF / PiP				
Digital zoom	1…8	1…8	1…10	1…16	1…20
Temperature range					
Standard	Range 1: -40°C…150°C Range 2: 0°C…650°C				
Optional	-		High temperature lens: 500°C…2000°C		
Accuracy	±2°C or ±2% of reading				
Image analysis modes	5 points, 5 lines, 5 areas. Temperature indication: min, max, average. Isotherm. Temperature alarm. Smart stroke.	8 points, 8 lines, 8 areas. Temperature indication: min, max, average. Isotherm. Temperature alarm. Smart stroke.	10 points, 10 lines, 10 areas. Temperature indication: min, max, average. Isotherm. Temperature alarm. Smart stroke.	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.
Palettes	16				
Super-resolution	2x, 512 x 384	2x, 640 x 480	2x, 768 x 576	2x, 960 x 720	2x, 1280 x 960
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 resolution	5 MPix	5 MPix	8 MPix	8 MPix	13 MPix
Other features	LED flashlight, GPS, laser pointer, laser rangefinder (0.1…40 m), microphone, speaker, digital compass				
Wireless communication	Wi-Fi, Bluetooth				
Storage	Built-in memory (64 GB), SD card				
Interface	SD card slot (max. 256 GB), USB type C, tripod				
Power supply	Li-ion battery (5 h of continuous operation), built-in charger, AC adapter 110-230 V (50/60 Hz)			Li-Ion battery (4 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…+60°C	-40°F…+140°F			
Ingress protection	IP54				
Weight	ca. 1.15 kg	2.5 lbs (with battery)			

Standard accessories

	KT-510	KT-520	KT-525	KT-530	KT-550
2 x Li-Ion battery 7.2 V 3.2 Ah WAAKU33	√	√	√	√	√
Power supply Z-37 WAZASZ37	√	√	√	√	√
External battery charger Z-38 WAZASZ38				√	√
Adapter for data transmission (USB-C/RJ45) WAADAUSBCRJ	√	√	√	√	√
Type C USB cable WAPRZUSBC	√	√	√	√	√
LAN cable (RJ45) WAPRZRJ45	√	√	√	√	√
SD card 64 GB WAPOZSD64	√	√	√	√	√
Shoulder harness WAPOZPAS8	√	√	√	√	√
XL-16 carrying case WAWALXL16	√	√	√	√	√
Factory calibration certificate	√	√	√	√	√

Optional accessories

	KT-510	KT-520	KT-525	KT-530	KT-550
Wide-angle IR lens (44°x34°/6 mm/1.99 mrad/0.1 m) WAADAO06V5XX	√	√	√		
Wide-angle IR lens (44°x34°/10 mm/1.2 mrad/0.1 m) WAADAO10V5XX				√	√
Tele IR lens (15°x11°/17.5 mm/0.68 mrad/1 m) WAADAO18V5XX	√	√	√		
Tele IR lens (15°x11°/29 mm/0.41 mrad/1 m) WAADAO29V5XX				√	√
Ultra-tele IR lens (7°x5°/37.5 mm/0.32 mrad/3 m) WAADAO375V5XX	√	√	√		
Ultra-tele IR lens (7°x5°/62.9 mm/0.19 mrad/3 m) WAADAO63V5XX				√	√
Macro IR lens (3x/16.2 mm/100 mm) WAADAO16V5XX				√	√
High temperature filter 2000°C (25°x19°) WAADAOF3		√	√	√	√
External battery charger Z-38 WAZASZ38	√	√	√		
Calibration certificate with accreditation	√	√	√	√	√