Thermal imagers

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

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TOUCH SCREEN
GPS
WiFi
BLUETOOTH
IP54
LASER RANGEFINDER
DUAL LENS

Sonel KT Mobile

Beyond the limits of visibility

Description

Features

Regardless of whether you take photos or record videos, the Sonel KT-510-PRO/520-PRO/525-PRO/530-PRO/550-PRO 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. The camera is equipped with the focal plan array uncooled microbolometer.

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

- High thermal sensitivity:
  - » **KT-510-PRO • KT-520-PRO • KT-525-PRO** ≤30 mK
  - » **KT-530-PRO • KT-550-PRO** |≤20 mK
- Superfast 50 Hz real-time image refresh rate
- Wide temperature measurement range in a single lens: -40°C...2000°C
- **Dual Lens** (2 in 1) – wide and narrow angle in one lens
- Fast charging: 90% battery charge in 1 hour
- 5 image focusing modes (focus)
- Compatibility with **Sonel ThermoAnalyze3** software and **Sonel KT Mobile** app
- 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



Dual Lens

The **single-lens, dual field-of-view** design allows instant switching between standard and narrow/wide-angle views. This is an extremely useful feature when you need to change the viewing angle **while inspecting an object from different distances**. Eliminating the need to swap the camera lens for a standard / wide-angle / telephoto one means greater convenience and speed of operation.

Dual Lens variants:

- standard + telephoto (standard and narrow angle),
- standard + wide-angle (standard and wide angle).

Sonel KT Mobile

With the application, you can get a preview of the actual image on your phone, and remotely perform a series of other activities by managing the camera from a mobile device. It can be downloaded from **Google Play** and **Apple App Store**.

Required operating system: Android, iOS



Specifications

	KT-510-PRO	KT-520-PRO	KT-525-PRO	KT-530-PRO	KT-550-PRO
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				
Frame rate	50 Hz / 9 Hz				
Thermal sensitivity	≤30 mK@30°C	≤30 mK@30°C	≤30 mK@30°C	≤20 mK@30°C	≤20 mK@30°C
Focus	Manual & Auto				
IFOV	1.70 mrad	1.36 mrad	1.13 mrad	0.91 mrad	0.68 mrad
Min. focus distance	0.15 m	0.15 m	0.15 m	0.15 m	0.15 m
Lens (field of view/focal length)	25° x 19° / 6.8 mm	25° x 19° / 8.5 mm	25° x 19° / 10.5 mm	25° x 19° / 13.0 mm	25° x 19° / 17.7 mm
Display	4.3”, 800 x 480 high brightness, capacitive 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 | -40°F...302°F Range 2: 0°C...650°C | 32°F...1202°F				
High temperature	Range 1: -40°C...150°C | -40°F...302°F Range 2: 0°C...650°C | 32°F...1202°F Range 3: 500°C...2000°C | 932°F...3632°F				
Accuracy	±2°C 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	15	15	15	16	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 or from the list				
Measurement adjustment	Auto-adjustable distance, relative humidity, ambient temperature (reflected)				
File format	JPG				
IR image annotations	Additional visual photos, voice (200 s), 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), LAN (via USB-C/RJ45 adapter), USB type C, tripod				
Power supply	Replaceable Li-ion battery (5 h of continuous operation), built-in charger (battery charging time to 90%: 1 hour), 90–260 V AC, 50 Hz, 12 V DC out			Replaceable Li-ion battery (4 h of continuous operation), built-in charger (battery charging time to 90%: 1 hour), 90–260 V AC, 50 Hz, 12 V DC out	
Operating temperature	-20°C...+50°C				
Storage temperature	-40°C...+70°C				
Resistance to vibration / mechanical shock / humidity and temperature	IEC 60068-2-6 / IEC 60068-2-27 / IEC 60068-2-78				
Ingress protection	IP54				
Weight	ca. 1.24 kg | 2.7 lbs (with battery)				
Compliance with standard VdS 2859	-	√	√	√	√

Standard accessories

	KT-510-PRO WMGBKT510PRO	KT-520-PRO WMGBKT520PRO	KT-525-PRO WMGBKT525PRO	KT-530-PRO WMGBKT530PRO	KT-550-PRO WMGBKT550PRO
Standard lens (25°x19°) WAADAO25V5A	√	√	√		
Standard lens (25°x19°) WAADAO25V5B				√	√
2 x Li-Ion battery 7.2 V 3.7 Ah WAAKU34	√	√	√	√	√
Power supply Z-37v2 WAZASZ37V2	√	√	√	√	√
External battery charger Z-38v2 WAZASZ38V2	√	√	√	√	√
Adapter for data transmission (USB-C/RJ45) WAADAUSBCRJ	√	√	√	√	√
USB-A / USB-C cable WAPRZUSBC	√	√	√	√	√
USB-C / USB-C cable WAPRZUSBDC	√	√	√	√	√
SD card 64 GB WAPOZSD64	√	√	√	√	√
Wristband WAPOZPAS8	√	√	√	√	√
Shoulder harness WAPOZPAS9	√	√	√	√	√
M-17 carrying case WAFUTM17	√	√	√	√	√
XL-17 hard carrying case WAWALXL17	√	√	√	√	√
Factory calibration certificate	√	√	√	√	√

Sales sets

Products are also available in bundle variants with lenses other than the standard one. Other accessories are the same as in the basic versions.

Model	IR lens	Index
KT-510-PRO	High temperature 25°x19°	WMGBKT510PROV1
	Dual Lens (standard + tele)	WMGBKT510PROV2
	Dual Lens (standard + wide-angle)	WMGBKT510PROV3
KT-520-PRO	High temperature 25°x19°	WMGBKT520PROV1
	Dual Lens (standard + tele)	WMGBKT520PROV2
	Dual Lens (standard + wide-angle)	WMGBKT520PROV3
KT-525-PRO	High temperature 25°x19°	WMGBKT525PROV1
	Dual Lens (standard + tele)	WMGBKT525PROV2
	Dual Lens (standard + wide-angle	WMGBKT525PROV3
KT-530-PRO	High temperature 25°x19°	WMGBKT530PROV1
	Dual Lens (standard + tele)	WMGBKT530PROV2
	Dual Lens (standard + wide-angle)	WMGBKT530PROV3
KT-550-PRO	High temperature 25°x19°	WMGBKT550PROV1
	Dual Lens (standard + tele)	WMGBKT550PROV2
	Dual Lens (standard + wide-angle)	WMGBKT550PROV3



Optional accessories

	KT-510-PRO	KT-520-PRO	KT-525-PRO	KT-530-PRO	KT-550-PRO
High temperature lens 2000°C (25°x19°) WAADAO25V5AHT	√	√	√		
High temperature lens 2000°C (25°x19°) WAADAO25V5BHT				√	√
Tele IR lens (15°x11°) WAADAO15V5A	√	√	√		
Tele IR lens (15°x11°) WAADAO15V5B				√	√
High temperature tele IR lens 2000°C (15°x11°) WAADAO15V5AHT	√	√	√		
High temperature tele IR lens 2000°C (15°x11°) WAADAO15V5BHT				√	√
Ultra-tele IR lens (7°x5°) WAADAO7V5A	√	√	√		
Ultra-tele IR lens (7°x5°) WAADAO7V5B				√	√
High temperature ultra-tele IR lens 2000°C (7°x5°) WAADAO7V5AHT	√	√	√		
High temperature ultra-tele IR lens 2000°C (7°x5°) WAADAO7V5BHT				√	√
Wide-angle IR lens (44°x33°) WAADAO44V5A	√	√	√		
Wide-angle IR lens (44°x33°) WAADAO44V5B				√	√
Dual Lens (standard + tele) (25°x19°+15°x11°) WAADAOD2515V5A	√	√	√		
Dual Lens (standard + tele) (25°x19°+15°x11°) WAADAOD2515V5B				√	√
Dual Lens (standard + wide-angle) (25°x19°+45°x33°) WAADAOD2545V5A	√	√	√		
Dual Lens (standard + wide-angle) (25°x19°+45°x33°) WAADAOD2545V5B				√	√
Macro IR lens (3x) WAADAOM3XV5B				√	√
Calibration certificate with accreditation	√	√	√	√	√