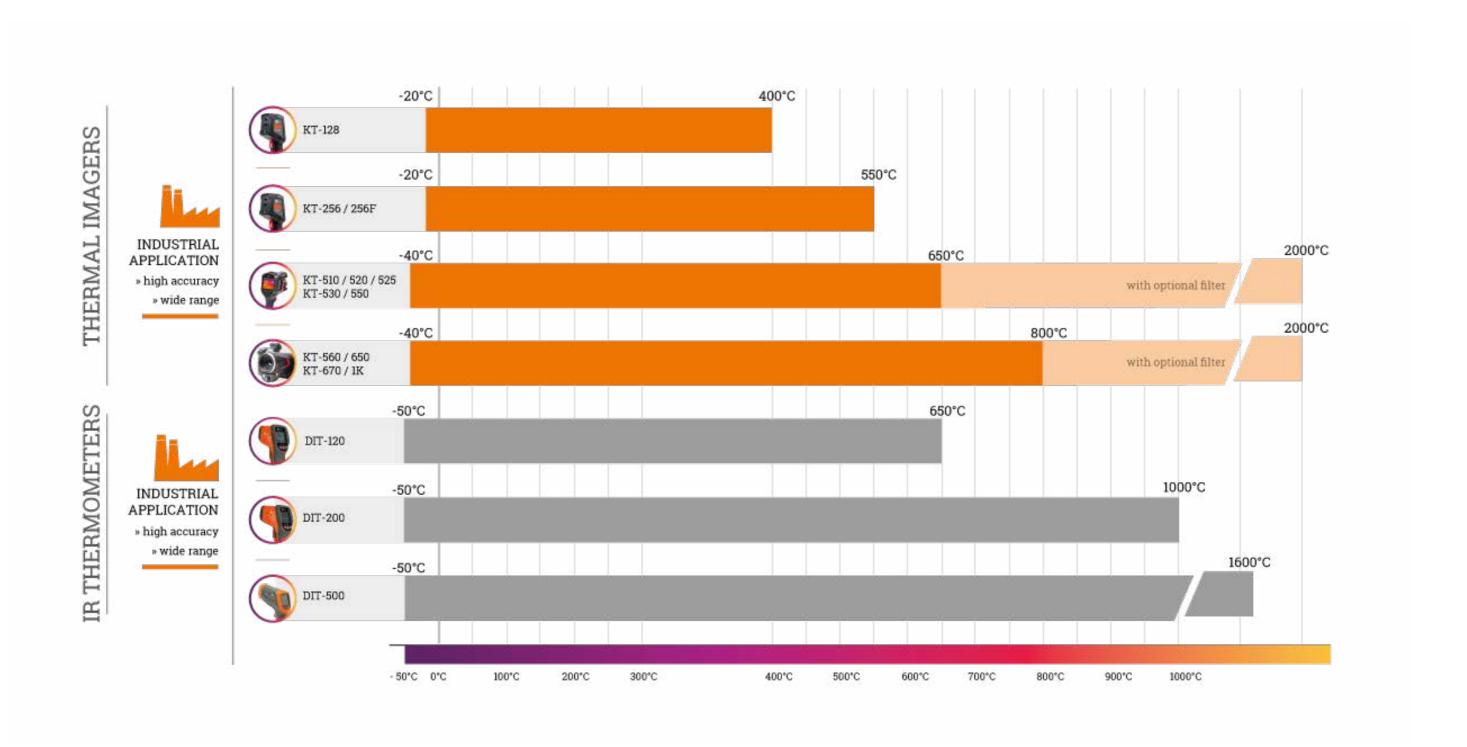
We measure globally



Contactless temperature measurements

Comparison of thermal imagers and IR thermometers

comparison of measurement ranges



measure

Infrared temperature meters are used to determine the temperature of the test object. The device detects the emission of radiation and measures its intensity. The electronic system transforms the collected data into a temperature value. To increase measurement precision, some devices are equipped with a laser pointer.







detect

Take non-contact temperature measurement with device-specific accuracy. If the threshold is exceeded, an alarm may sound - all this so that you can quickly and efficiently detect an undesirable temperature.

handy

Professional and compact, DIT-series infrared thermometers are a solution for problems in every area where temperature measurements are essential. The intuitive one-hand operation of the devices and the ergonomically designed gun-type housing allow for trouble-free daily work.



	Industrial application									
	Basic	Intermediate	Advanced							
	DIT-120	DIT-200	DIT-500							
D:S (distance to spot) ratio	12:1	20:1	50:1							
Spectral sensitivity	8~14 µm	8~14 μm	8~14 µm							
Temperature range (IR)	-50°C650°C	-50°C1000°C	-50°C1600°C							
Accuracy (IR)	±3.5°C (-50°C20°C) 1.0% + 1°C (20°C300°C) 1.5% (300°C650°C)	±3.5°C (-50°C20°C) 1.0% + 1°C (20°C300°C) 1.5% (300°C1000°C)	±2.5°C (-50°C20°C) 1.0% + 1°C (20°C400°C) 1.5% + 2°C (400°C800°C) 2.5% (800°C1600°C)							
Temperature range (K-type probe)	-	-50°C1370°C	-50°C1370°C							
Accuracy (K-type probe)	-	2% (-50°C0°C) 0.5% + 1.5°C (0°C1370°C)	1.5% + 3°C (-50°C999.9°C) 1.5% + 2°C (1000°C1370°C)							
Response time	150 ms	150 ms	150 ms							
Laser pointer	dual	multi-point	dual							
Semiconductor laser diode										
Output power	<1 mW	<1 mW	<1 mW							
Wavelength	630~670 nm	630~670 nm	630~670 nm							
Class	2(II)	2(II)	2(II)							
Internal memory	_	-	100 measurements							
Data transfer to PC	_	_	√							

IR THERMOMETERS

safe

Protecting life and health of a measuring person is our priority, especially in relation to dangerous objects - under voltage, high temperature or in motion. Sonel KT cameras allow to effectively assess the temperature distribution on the surface of the observed object completely non-contact, remote, safe. Such measurement method does not influence the work of measured objects, giving a real picture of the situation at the time of operation.



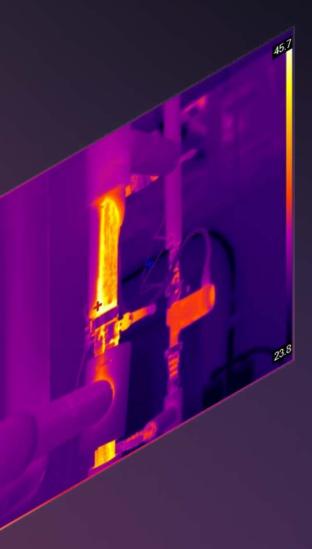
professional

Regardless whether you take pictures or record videos, the latest Sonel cameras guarantee a high level of detail of the recorded images and the accuracy of the performed measurements. Equipped with modern detectors, a wide range of temperature measurement and high quality lenses. Their design considers many years of experience and feedback from users.

precise

A wide range of available resolutions of cameras allows you to choose the best tool for your needs. The resolution of the camera allows to detect more details, measure more precisely and adjust the frame. Basic resolutions can be easily applied to simple everyday tasks, and higher resolutions will work wherever precision is required. Camera lenses have been made with the highest accuracy, from high-quality materials to provide a reliable picture.

THERMAL IMAGERS



adjusted

Cameras come in several variants allowing selection of the right configuration for each user's individual requirements.

	Industrial applications					Industrial applications								
	Basic Basic Basic			Ultra-ad	lvanced				Ultra-advanced					
						(Q)	(in the second	Ţ		S	-			
	KT-128	KT-256	KT-256F	KT-510	KT-520	KT-525	KT-530	KT-550	KT-560	KT-650	KT-670	KT-1K		
Detector resolution	120 x 90	256	x 192	256 x 192	320 x 240	384 x 288	480 x 360	640 x 480	384 x 288	640	x 480	1024 x 768		
Temperature range	-20°C400°C -20°C550°C		-40°C650°C			-40°C650°C			-40°C800°C					
Maximal range with the use of optional lens		_		– 2000°C			2000°C			2000°C				
Standard lens (field of view/focal length)	50° x 38° / 2.28 mm	56° x 48° / 3.2 mm	25° x 19° / 7 mm	25° x 19° / 10.5 mm	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		24,9° x 18,7° / 15 mm	24,6° x 18,5° / 25 mm		24,6° x 18,5° / 28 mm		
Optional lens (field of view / focal length)	_			44°x34°/6 mm 15°x11°/17.5 mm 7°x5°/37.5 mm		44°x34°/6 mm 15°x11°/17.5 mm 7°x5°/37.5 mm	15°x11° 7°x5°/6	?/10 mm ?/29 mm 2.9 mm .2 mm	48,1° x 35,9°/ 7,78 mm 11,2° x 8,4°/ 33 mm 7,3° x 5,5° / 50,7 mm 23,3 x 17,5 mm / 67 mm 24,9° x 18,7° /-	45,4° x 34,8°/ 13mm 11,3° x 8,5°/ 55mm 7,3° x 5,5° / 85mm 23,3 x 17,5mm / 67mm 24,6° x 18,5° / -		24,6° x 18,5° / -		
Accuracy		±2°C or 2%		±2°C or 2%			±2°C or 2%			±2°C or 2% ±1°C or 1%				
Focusing	fixed	fixed focal auto		manual / auto			manual / auto			manual / auto				
Palettes		6		16			16			10 12		12		
Super-resolution		_		2x, 512 x 384	2x, 640 x 480	2x, 768 x 576	2x, 960 x 720	2x, 1280 x 960	4x, 768 x 576	4x, 12	80 x 960	2048 x 1536		
Panoramic images		_		√			√			- 1				
Frame rate		25 Hz		30 Hz			30 Hz			30 Hz				
Visual picture		\checkmark		√		√			√					
Imaging mode	IR, visual, PiP	IR, visual, PiP IR, visual, MIF, PiP		IR, visual, MIF, PiP		IR, visual, MIF, PiP			IR, visual, MIF, PiP					
Video		_		SD, USB, Wi-Fi, LAN		SD, USB, Wi-Fi, LAN			SD, USB, Wi-Fi, LAN, HDMI					
Built-in memory	_			\checkmark			√			√				
External memory		√			√		√			\checkmark				
Photo image format	JPG			JPG			JPG		JPG					
Video file format		_		MP4, IRGD		MP4, IRGD			MP4, IRGD					
File transfer to PC	microSD card, USB			SD card, USB, Wi-Fi, Bluetooth			SD card, USB, Wi-Fi, Bluetooth			SD card, USB, Wi-Fi, LAN 1 Gb/s, HDMI, Bluetooth				
Laser pointer	√			\checkmark			\checkmark			√				
Laser rangefinder		_		√			√		√					
LED flashlight	√		√		\checkmark		√							
GPS	-		√			√		√						
Compass	-		√			√		√						
Replaceable Li-Ion battery	-		√			√			√					
Touchscreen	-			\checkmark			\checkmark			\checkmark				
Viewfinder	-			-		-			√					
Basic image analysis tools	√			√		√			√					
Extended image analysis tools	-			√			√			√				
Report module with notes and voice recording in camera	-			√ √			√							

observant

High-quality interchangeable lenses significantly extend the functionality of the cameras. Quickly and comfortably adjust to the existing situation, choosing the appropriate range and field of view of the camera.



efficient

The reporting module, available in higher camera models, allows you to end your work with the basic report without using additional devices or software for processing thermograms. The report can be saved in PDF format or printed on a printer connected with the camera. However, if you prefer classic solutions, you can also use the Sonel ThermoAnalyze 3 computer program.



sharp

The display also matters. It has been optimally adapted to camera parameters, both image processing, housing dimensions and ergonomics of use. A high degree backlight significantly improves the comfort of work. In extreme situations, a built-in viewfinder may be necessary.



convenient

of them.

ergonomic

Wide functionality allows you to adjust the camera settings to the current needs and the situation in which you want to do your job. Both image presentation options (a few modes of IR and visual picture combination, color palettes) as well as analysis tools, additional data (GPS, compass) and notes are helpful.



mobile

A mobile app works with Sonel thermal imaging cameras. With KT Mobile app, you can get a real preview of the image on your phone, as well as perform a number of tasks, such as image analysis and creating reports.



Sonel cameras have a number of innovative solutions that increase the convenience of their use. Flashlight, laser, tilted lens, rotating touch screen - these are just some **Eyes are not enough.** Use Sonel instruments for measurements.