



## More to see, less to hold

### Description

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#### Features

Regardless of whether you take photos or record videos, the newest cameras supplied by Sonel, equipped with modern detectors, a wide range of temperature measurement and exceptional focusing performance, ensure highly detailed images and accurate measurements. KT-400F features an auto-focus function helping you capture sharper images.

#### More to see, less to hold

A large display combined with innovative data processing electronics is placed in a compact housing, thus ensuring a perfect balance between high performance and small dimensions – the best choice for everyday use. Moreover, due to the centrally located navigation button supported by a menu on the touchscreen, this model ensures simple and intuitive operation.

#### 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.

### Camera features

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- high sensitivity of detectors and a wide temperature range
- **panoramic photos**
- **photos in increased resolution**
- comprehensive image analysis tools
- intuitive user interface
- IR video recording (on the SD card or computer disc)
- built-in report module
- different imaging modes: IR, visual, PIP, MIF
- built-in visual camera: 5 Mpix
- built-in: LED torch, laser pointer
- interfaces: USB type C, Wi-Fi, Gigabit Ethernet, microHDMI, microSD slot



# Specifications

Detector resolution	382 x 288 / 25 µm VOx
Spectral range	7.5~14 µm
Frame rate	25 Hz
Thermal sensitivity	45 mK
Focusing	Auto
IFOV (standard lens)	1.29 mrad
Minimum focus distance (standard lens)	0.5 m
Lens (field of view/focal length)	28.4° x 21.5°/19 mm
Display	4", 480 x 800 px, high-quality LCD touchscreen
Imaging mode	IR /Visual/InfraFusion MIF/PIp
Zoom	1.1...4
Temperature range	Range 1: -20°C...150°C   -4°F...302°F Range 2: 150°C...650°C   302°F...1202°F
Accuracy	±2°C   ±4°F or 2% of reading (for ambient temperatures between 15°C and 35°C and object temperature above 0°C)
Image analysis mode	5 points, 2 lines, 5 areas. Temp. readings: min., max., mean. Isotherms. Temp. difference Alarm temp. Dew point.
Palettes	8
Emissivity coefficient	Adjustable from 0.01 to 1.00 or taken from the material list.
Measurement correction	Settable distance, relative humidity, ambient (reflected) temperature
Photo image format	JPG
Notes to IR photos	Audio (60 seconds), text, graphic, photo.
Report module	PDF reports, report printing through Wi-Fi
Video file format	AVI, IRV (including information on temperature)
Built-in functions	Visual camera 5 MPix, LED torch, laser pointer, microphone, speaker.
Wireless communication	Wi-Fi
Interfaces	MicroSD card slot, microHDMI, microUSB 2.0
Power supply	Li-ion battery (operating time >4 hours), built-in charger, AC 110-230 V (50/60 Hz) / 12 V power supply adapter
Operating temperature	-10°C...50°C   14°F...122°F
Storage temperature	-40°C...70°C   -40°F...158°F
Humidity	10%...95%
Shock/vibration resistance	30g 11 ms (IEC 60068-2-27) / 10 Hz~150 Hz~10 Hz 0.15 mm (IEC 60068-2-6)
Housing	IP54
Weight	approx. 0.84 kg   1.85 lb (with battery)
Dimensions (with standard lens and battery)	274 x 110 x 78 mm   11" x 4" x 3"

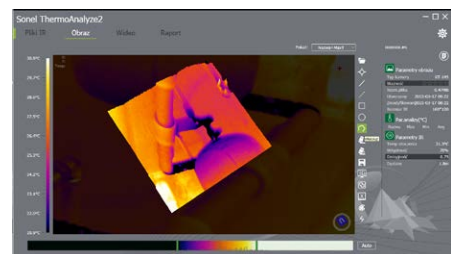
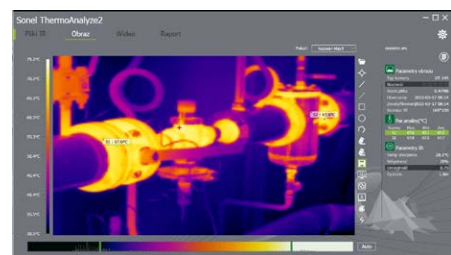
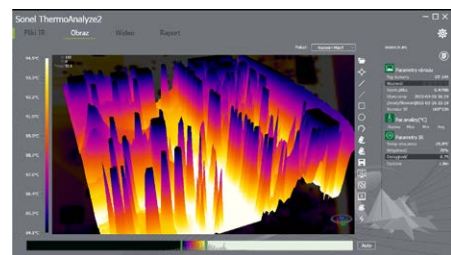
## Standard accessories

<b>IR 19 mm tele lens (28.4°x21.5°)</b> WAADA019V400	1
<b>Protective gloves (for operating the touchscreen)</b> WAREK1	1
<b>2 x Li-Ion 7.2 V 3.2 Ah rechargeable battery</b> WAAKU24	1
<b>Power supply adaptor Z13</b> WAZASZ13	1
<b>Hard carrying case L6</b> WAWALL6	1
<b>Hand strip</b> WAPOZPAS4	1
<b>MicroUSB cable for data transmission</b> WAPRZUSBMICRO	1
<b>MicroHDMI cable</b> WAPRZMIKROHDMI	1
<b>MicroSD card 16 GB</b> WAPOZMSD16	1
<b>User manual</b>	1
<b>Factory calibration certificate</b>	1

## Sonel ThermoAnalyze 2

A programme for analysing and reporting, included in the set of thermal imaging cameras.

- Possibility of adjusting the emissivity coefficient for the entire thermogram or its parts – the coefficient may be adjusted separately for each selected area.
- Selection of the analysed areas – marking out an area of a rectangular, oval or any other shape.
- Temperature readout at any point – after moving the cursor, temperature readout and current coordinates are presented continuously in the “Information” box; other recorded data are also available (maximum temperature, humidity, emissivity).
- Use of the InfraFusion technology – a thermogram in any palette chosen by the user is superimposed on a part of visual picture. The thermogram is superimposed with a set transparency, thus enabling optimal presentation and marking of areas of interest, especially when the visual comparison of the thermogram area and the details of visual image of the observed object is difficult.
- Determination and readout of the minimum, maximum and mean temperature for the whole area or in each selected area; segment selection (straight line or polyline).
- Easy report writing by transferring to the report all that you want to include – thermograms and corresponding visual pictures.
- Saving all characteristic points and corrections made, allowing for further analysis at a later time.
- Unlimited software licence – the programme can be used on many computers simultaneously.



## Sonel KT Mobile



Mobile version of the programme supporting Sonel thermal imaging cameras. This application enables the user to view the images in real time on a mobile phone and to remotely perform many other activities by managing the camera from a mobile device.