

# Manual Focus

High **Performance** Thermal Imagers

**S300N. S320. S500. S600-M Series**



**1** 3.5" Large color touchscreen



**4** Voice annotation and QR code naming functions free your hands



**3** Easy to use feather touch buttons

**2** Manual focus knob - High precision image capture

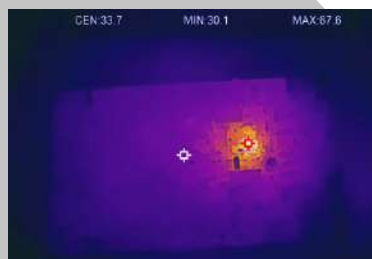
**2** Meter Drop Impact proof body

**5** Built-in 5 image modes+10 pseudo color settings

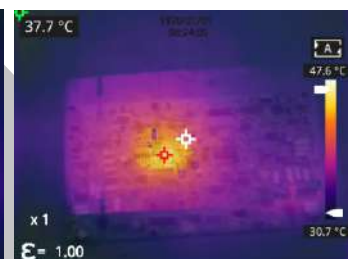
5 image modes including detail enhancement, IR, visible light, PIP, and fusion, with 10 pseudo color settings, to meet the temperature measurements of different requirements and increase the efficiency of temperature measurement;



Visible light



IR

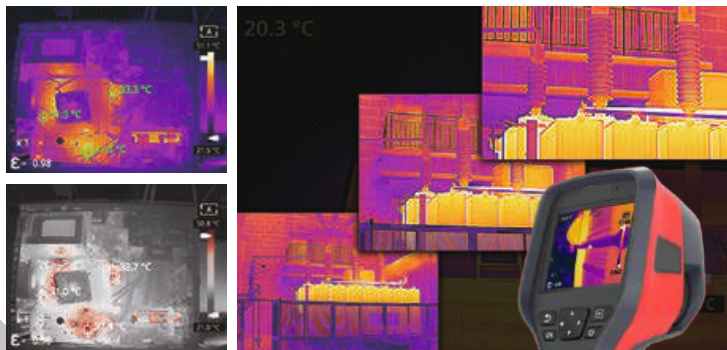


Thermal fusion



PIP

# High Performance Thermal Imaging Camera | Manual Focus



Infrared thermal imaging core, easy to adapt to long and short distance applications

## 7 Start analysis once the USB is plugged, supports full-frame real-time transmission and analysis of temperature information

It supports cloud services and **timed photography**. The software on PC terminal supports **real-time** and offline analysis. The photos and videos taken can be uploaded to the cloud and can be downloaded, opened, and analyzed at multiple clients. The report output is by pressing one key, which further supports the applications in research and equipment monitoring and temperature measurement assessment.

## 8 Timed Photography+ Alarm +Video

**Supports image capture. In addition supports timed photography** for recording temperature changes to assist equipment analysis, R&D, Breakdown study, with **High / Low Alarms** configurable to discover the fault point.

Also **Video capture** with **32GB Data Storage**.

## 6 5 Million Pixels Visible light camera

The 12µm high-performance Infrared thermal imaging core, together with an accurate **manual focusing lens**, can observe the fine structure of circuit board accurately from a close distance, or inspect power lines and building facades far away.

With **Digital zoom** (S320, S500 & S600 Models: 1x, 2x, 4x, 8x; S300N Model: 1x, 2x, 4x) and ultra-high infrared resolution, it can perfectly replace the combination of one camera and multiple lenses - no need to change the lens.

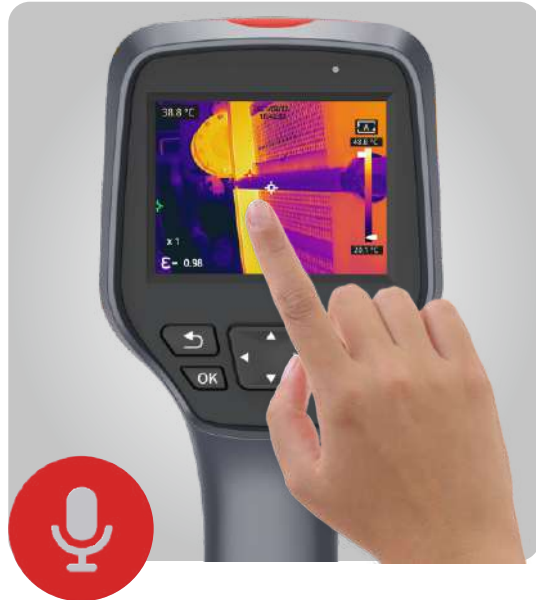


Start analysis once the USB is plugged

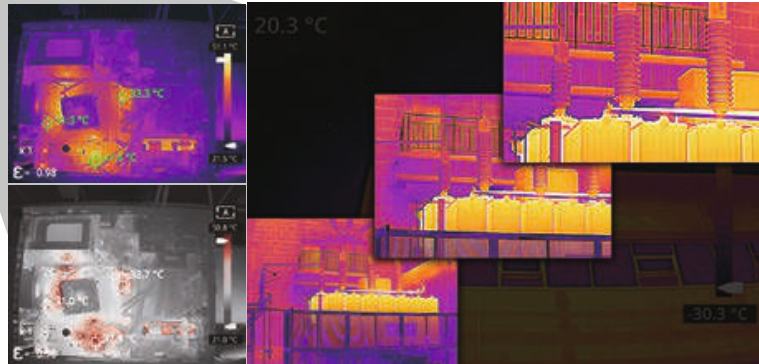
## 9 Simultaneous Capture of Thermal & Visible image with Temperature Data

Thermal + Visible - two separate images with temperature data captures in one click for further diagnosis, comparison and corrective action. In addition record keeping of problem areas.

**High Performance Thermal Imaging Camera. Upto 650 Deg C Temperature. 640 X 512 Resolution. FOV 23°× 18°. iFOV 0.63mrad.**



**Voice annotation and QR code naming functions free your hands**



**640x512 infrared thermal imaging core, easy to adapt to long and short distance applications**

**HD thermal image displayed on a 3.5-inch HD touch screen**

**Ultra high thermal resolution of 640x512 & FOV of 23°x** for demanding applications & customers, for viewing clear temperature information **upto 20m distance** on a 3.5-inch HD touch screen.

**High resolution, high frame rate.** S500 can distinguish a **temperature difference of 0.035°C**, and together with the **30 Hz high frame rate**, can obtain delicate and smooth images and videos in industrial, utility maintenance & scientific research works, with no detail missing. Its measurement accuracy reaches  $\pm 2^{\circ}\text{C}$ , and meanwhile, it provides a wider measurement range to ensure the accuracy of temperature data.

The 12 $\mu\text{m}$  high-performance 640x512 infrared thermal imaging core, together with an accurate **manual focusing lens**, can observe minute variations from close to far distances such as inspect power lines and power installations. With **8x digital zoom** and ultra-high infrared resolution, S500 provides both dual fusion and visible images with temperature data in one click.

Image & Video Capture	Timed Temperature Monitoring Alarm
640x512= 327680 Thermal Resolution	5 Megapixel Visible Camera
Distance Setting Upto 20m   IR+Visible Image in 1 Click	Software Processing + Reports
Auto Central spot measurement, Hot and cold spot tracing	IR, Visible, PIP, Dual-spectrum fusion mode



## High- Performance Handheld Thermal Imaging Camera

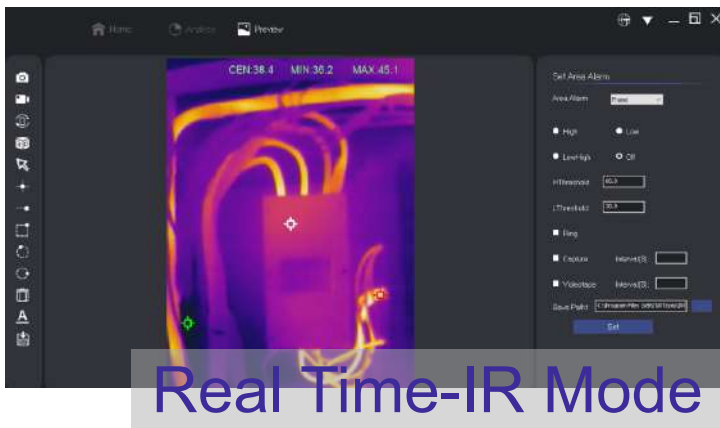
### Specifications :

Model	S500-M
Detector Type	Uncooled VOx Infrared Focal Plane Detector
Detector Resolution	640x512
Spectral Band	8-14μm +/-0.5mm
Pixel Size	12μm
Thermal sensitivity (NETD)	<35mk
IFOV	0.63mrad
FOV	23°x 18°
Frame rate (In Hz)	30
Focal length (in mm)	19
Focusing Mode	Manual focus
Measurement Range	Range 1: -20°C to +150°C ; Range 2: +100°C to +650°C
Measurement Accuracy	±2% or ±2°C
Measurement Resolution	0.1°C
Measurement Mode	Center spot/hot and cold spot tracking and temperature display
Custom Measurement of Points, Lines, and Areas	Movable spot/line/area temperature measurement, up to 10 spots, 10 areas, 10 lines. Temperature trend can be viewed via temperature measurement line.
Measurement Units	Celsius, Fahrenheit, Kelvin
Emissivity setting	0.01-1.00, step length 0.01
Distance setting	1-20m, (step length:1m)
Image mode	Thermal, dual-spectrum fusion, visible light, PIP
Palettes	10
Alarm Mode / Temperature Alarm	Image alarm/Support temperature alarm
Visible Light Camera / Laser Pointer	Yes
Visible Camera Resolution	5MP
Digital zoom	1x, 2x, 4x, Max 8x
Photo/Video Storage Function	Jpg images with temperature data in thermal and visible light modes; H.264 videos without temperature data and IRV video with temperature data"
Voice annotation	Yes
Image naming	Auto/manual input, QR code scanning
Display Screen Size (Inch), Resolution	3.5-inch touch screen (640 x 480)
Data Storage	Standard 32GB MicroSD card, expandable to 512 GB
Battery type	Rechargeable and detachable Lithium battery
Power Supply	USB Type-C
Connection Type	Type-C; WiFi
Battery operation time	About 4h
Charging time	About 3h
Power Management	Automatic shutdown: 5 min, 10 min, 20 min, non-automatic shutdown
Analysis software	PC (Infrared analysis software) or mobile (IOS/Android APP)
Operating Temperature   Storage   RH %	-10~+50°C   -20~+60°C   10%~95% RH
Environmental   Drop Protection	IP54 (IEC 60529)   2m
Impact and Vibration	Impact 25G (IEC 60068-2-27); vibration 2.5G (IEC60068-2-6)
Dimensions (LxWxH)   Weight	258x105x102mm   Approx 680 grams
Product Supply includes	Power adapter, Charging bay, Battery (1 mains +1 spare), Data cable, SD card, User manual

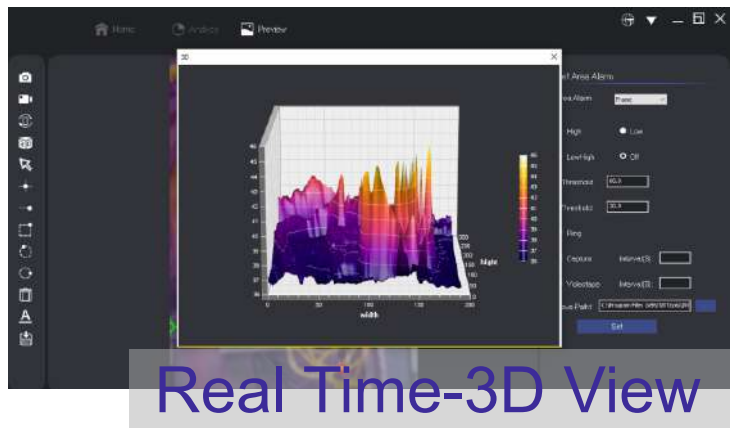
## High-Performance Handheld Thermal Imaging Camera

PC analysis software offered for all “M” models and S280 Pro to:

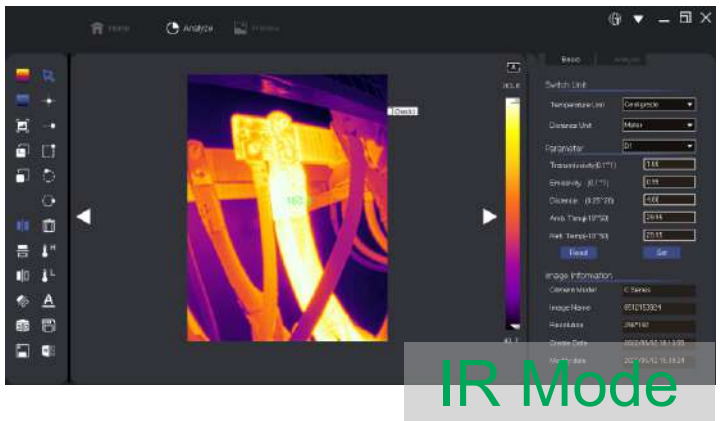
1. Perform real time monitoring of thermal imaging using device, directly on PC, by connecting USB Cable from thermal imaging camera to PC.
2. Download the data from the thermal imaging camera for analysis. Each pixel can be checked individually for temperature data to find anomalies.



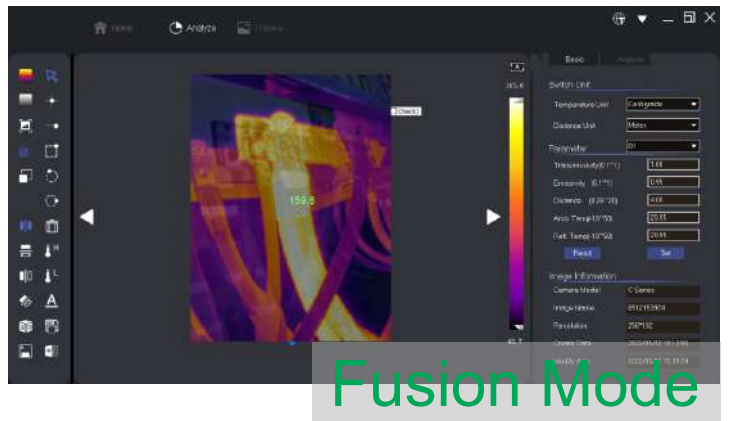
Real Time-IR Mode



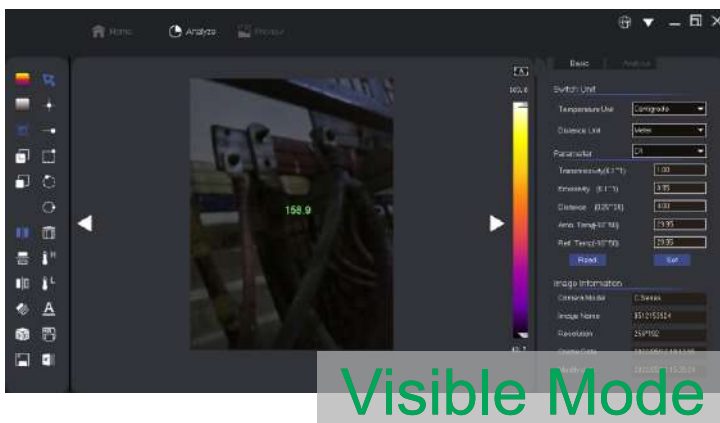
Real Time-3D View



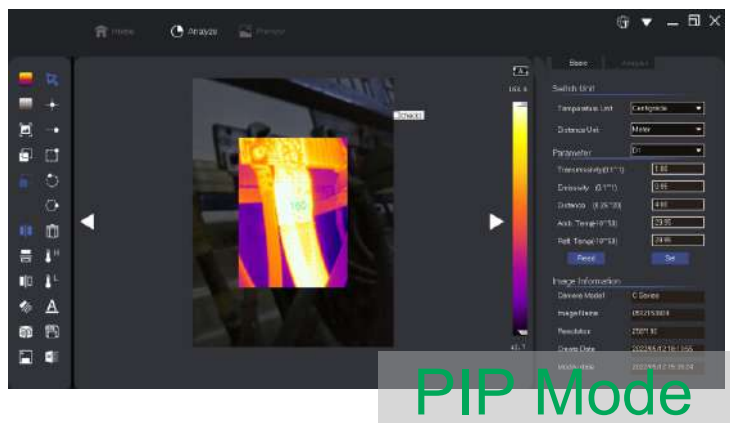
IR Mode



Fusion Mode



Visible Mode



PIP Mode