

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

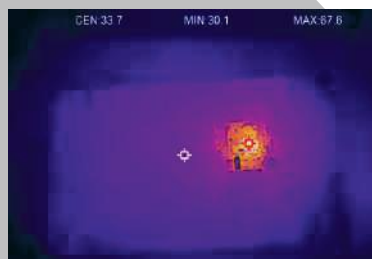


5 Built-in 5 image modes+10 pseudo color settings

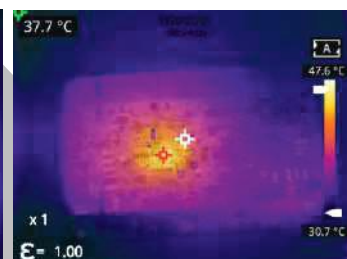
5 image modes including detail enhancement, IR, visible light, PIP, and fusion, with 10 pseudo color settings, to meet the temperature measurements of different requirements and increase the efficiency of temperature measurement;



Visible light



IR

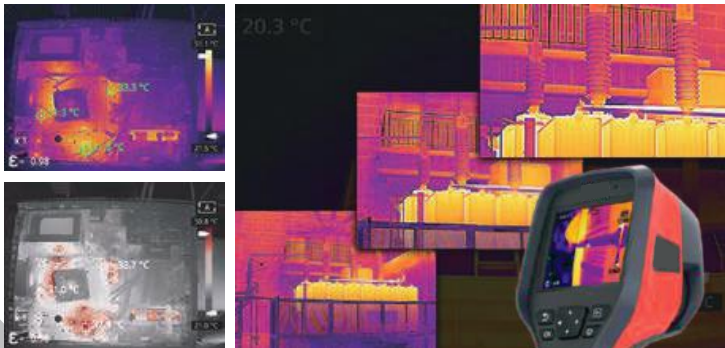


Thermal fusion



PIP

High Performance Thermal Imaging Camera | Manual Focus



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



6 5 Million Pixels Visible light camera

The 12 μ m 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.

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.



Start analysis once the USB is plugged

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**.

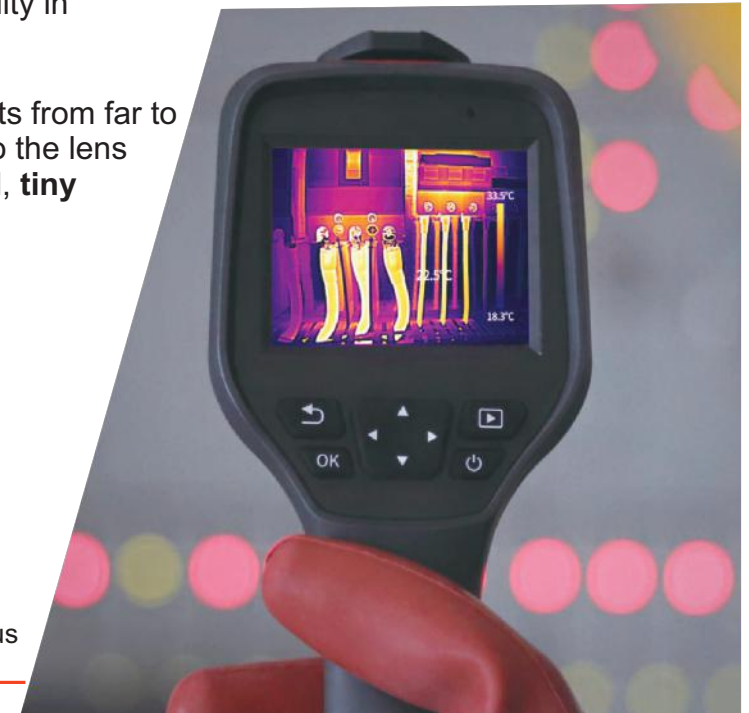
9 Simultaneous Capture of Thermal & Visible image with Temperature Data

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 | Manual Focus

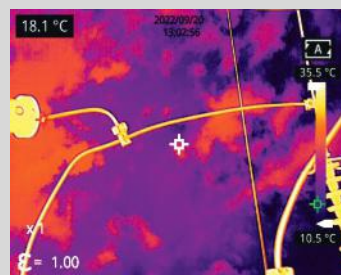
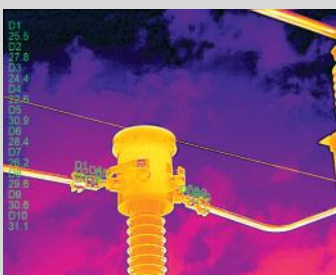
S320 Thermal Camera is a powerful tool for Railway OHE & Power line applications

- With **384x288 thermal resolution**, thermal sensitivity of 0.035°C and 27°x 20° FOV, S320 can display rich details at distances ~ 20 meters, An ideal instrument for high resolution capture of targets at relatively shorter distances to check for abnormality in temperature.
- **Manual focusing** provides clear images of targets from far to near, Especially for observing tiny near targets so the lens equipped on S320 is close to the quasi macrolevel, **tiny targets can be distinguished**.
- **Digital zoom Upto 8x**



| | |
|--|---|
| Image & Video Capture | Timed Temperature Monitoring Alarm |
| 384 x 288 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 |

Application Fields :



High Performance Thermal Imaging Camera | Manual Focus

Specifications :

| Model | S320-M |
|--|---|
| Detector Type | Uncooled VOx Infrared Focal Plane Detector |
| Detector Resolution | 384x 288 |
| Spectral Band | 8-14µm +/-0.5µm |
| Pixel Size | 12µm |
| Thermal sensitivity (NETD) | 35mk |
| IFOV | 1.31mrad |
| FOV | 27°x20° |
| Frame rate (In Hz) | 30 |
| Focal length (in mm) | 9.1mm |
| Focusing Mode | Manual focus |
| Minimum focus distance | 25cm to infinity |
| 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 :

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.

