

S310

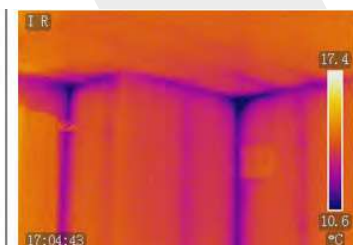
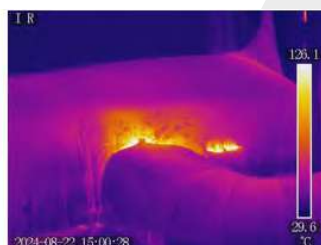
## Professional Infrared Camera

- Onboard image enhancement ensures crisp and vibrant thermal images
- Expanded temperature measurement range for fast detection of hot spots and hidden anomalies in industrial environments
- Suitable for a wide range of PPM, industrial inspections, process control and failure diagnosis applications



## SPECIFICATION

| Model                        | S310                                                                                         |
|------------------------------|----------------------------------------------------------------------------------------------|
| <b>Imaging &amp; Optical</b> |                                                                                              |
| Detector Type                | Uncooled Microbolometer                                                                      |
| Resolution                   | 384×288@17μm                                                                                 |
| Super Resolution             | Up to 768X576 pixels                                                                         |
| Spectral Range               | 7.5 μm ~ 14 μm                                                                               |
| Image Frequency              | 50Hz                                                                                         |
| NETD                         | ≤40mk@30°C                                                                                   |
| FOV                          | 24° × 18°                                                                                    |
| Minimum Focus Distance       | 15cm                                                                                         |
| Optional Lens                | 47° x 36.2° / 12.4° x 9.33° / 6.92° x 5.19°                                                  |
| IFOV                         | 0.90mrad                                                                                     |
| Digital Zoom                 | 1x-8x continuous zoom                                                                        |
| Focus                        | Manual/Laser Automatic/Contrast Automatic                                                    |
| Display                      | 4.3 inch Touch display screen, resolution 800*480                                            |
| Digital Camera               | 5 Megapixel (Optional 13 Megapixel), with built-in LED lights                                |
| Image Mode                   | Infrared, Visible light image, PNP, Image enhancement mode(MFI), Thermal superposition image |
| Palette                      | 12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)                        |
| Image Adjustment             | Manual/Automatic                                                                             |



# S310 Professional Infrared Camera



HYBRID MICROGRAPHY CAMERAS

## SPECIFICATION

### Measurement & Analysis

|                               |                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature Measurement Range | -20°C~650°C (Optional up to 1500°C)                                                                                                                                                                                                                                                                             |
| Temperature Accuracy          | Temperature measurement range from 0°C to 100°C, is $\pm 1^{\circ}\text{C}$ ;<br>Other temperature measurement ranges is $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ , take the maximum value                                                                                                                          |
| Temperature Measurement Mode  | Real-time 20 movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color) |
| Emissivity                    | Custom input and material table selection, range 0.01-1.0                                                                                                                                                                                                                                                       |
| Measurement Corrections       | Emission rate, ambient temperature, reflection temperature, relative humidity, temperature measurement distance, and infrared window compensation                                                                                                                                                               |
| Rangefinder/Laser pointer     | Distance shown on Screen                                                                                                                                                                                                                                                                                        |

### Image Storage and Transfer

|                             |                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Storage               | TF card, standard 64GB                                                                                                                         |
| Image Storage Mode          | Infrared images and Digital camera images are saved simultaneously                                                                             |
| Thermal Image Format        | JPEG format, 16bit Radiometric IR digital image. Radiation infrared video recording and non-radiation infrared video recording in H.264 format |
| Digital Camera Image Format | JPEG format, H.264 format for Digital camera video recording                                                                                   |
| Voice                       | Supports 60 seconds of voice annotation, stored together with the image                                                                        |
| Text Annotation             | Preset text comments with editable text                                                                                                        |
| Programmable button         | 2 Programmable buttons                                                                                                                         |
| Transfer Interfaces         | USB Type C, TF card, Bluetooth, and WiFi, HDMI Video out put                                                                                   |
| Software                    | IR Analyser for PC and Andriod-full analysis and reporting software, live stream on PC/Phone                                                   |

### Power supply

|                    |                                                                          |
|--------------------|--------------------------------------------------------------------------|
| Battery Type       | Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)            |
| DC Operation       | 12V DC power supply(100V to 240V, 50/60Hz)                               |
| Battery Hours      | Approximately 4 hours Continuous working Time (25°C ambient temperature) |
| Battery Charger    | 12V Charging dock for 2 battery charging, 2.5 hours charging time        |
| Battery Management | Automatic shut-down                                                      |

### Environmental

|                     |                         |
|---------------------|-------------------------|
| Working Temperature | -20°C~50°C              |
| Storage Temperature | -40°C~70°C              |
| Vibration           | 2G/IEC 60068-2-6:1995   |
| Shock               | 25G/IEC 60068-2-27:2008 |
| Enclosure Rating    | IP54                    |

### Physical Specification

|                  |                                                                                                                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight           | $\leq 850\text{g}$ (With a standard lens and battery)                                                                                                                                                     |
| Dimensions       | 245×125×120mm                                                                                                                                                                                             |
| Package Includes | IR thermal imager, rechargeable lithium battery * 2, Charging Dock, power adapter, USB cable, TF card, Card reader, Packing list, Calibration Certificate, User manual, 2 Years Warranty card, Carry Case |