

## FEATURES

- Temperature measurement accuracy:  $\leq 0.3^{\circ}\text{C}$
- Significant improved stability
- Long-distance rapid screening
- External display, Full video image recording
- Non-contact screening, Avoid cross infection
- Abnormal temperature alarm, automatic capture, video, photo, etc.

## RS PRO Thermal Imaging Camera

RS Stock No.: **2012636**



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

T8-WH is a 384×288 pixel infrared thermal imaging body temperature rapid screening apparatus. Real-time calibration of blackbody, high precision human body temperature measurement algorithm. It can satisfy the human body temperature rapid screening needs of airports, ports, wharfs, stations and so on transportation hub centres where the flow is very high.

## General Specifications

| Items              |                         | T8-WH  |
|--------------------|-------------------------|--|
| <b>Detector</b>    | types                   | Uncooled focal plane microbolometer  |
|                    | Pixel                   | 384×288  |
|                    | Cell spacing            | 25μm   |
|                    | Wavelength range        | 8-14μm   |
|                    | Sampling frequency      | 50Hz   |
|                    | Thermal sensitivity     | 0.04°C@30°C  |
| <b>Lens</b>        | Field of View           | 25°×19°  |
|                    | Nearest object distance | 10cm   |
|                    | Focusing method         | Manual focus   |
|                    | Interface method        | Bayonet connection   |
| <b>Performance</b> | Spatial resolution      | 1.36mrad   |
|                    | Visible light camera    | 3.2 million pixel CMOS module, built-in 2 LED fill light   |
|                    | Frame rate              | 50HZ / 60HZ, optional  |
|                    | Video output            | PAL / NTSC, optional   |
| <b>Image</b>       | LCD                     | 3.5 " TFT LCD, 640 × 480, color  |
|                    | Color palette           | 11 color palettes to choose from   |
|                    | Image display           | Infrared image and visible light image can be quickly switched, infrared image and visible light image are fused |
|                    | Image adjustment        | Auto / manual adjustment of contrast, brightness, auto-enhancement mode  |

## Thermal Imaging Camera

|                     |                                      |   |
|---------------------|--------------------------------------|---|
| <b>Measurement</b>  | Temperature measurement range        | +20°C~+50°C   |
|                     | Temperature measurement accuracy     | ≤0.3°C  |
|                     | Temperature calibration              | Auto (short time, long time, custom time) / manual  |
|                     | Measurement mode                     | Full screen maximum temperature tracking, temperature alarm (sound, color)  |
|                     | Emissivity correction                | Adjustable from 0.01 to 1.0 (in increments of 0.01) or select from a list of predefined materials   |
|                     | Background temperature correction    | automatic   |
|                     | Atmospheric transmittance correction | Automatic, based on entered distance, ambient humidity and ambient temperature  |
|                     | Setting function                     | Date / time, temperature unit °C / °F / K, language, contrast / brightness, LCD backlight, IP address   |
| <b>storage</b>      | Memory card                          | 8G Micro SD (TF) card, Max. 32G   |
|                     | Storage method                       | Manual / automatic storage; single frame infrared image, infrared and visible light associated image, infrared and visible light fusion image; infrared video, infrared and visible light fusion video. |
|                     | Thermal image format                 | JPEG format with raw infrared measurement data  |
|                     | Visible light image format           | H.264 format  |
|                     | Voice note                           | JPEG format, H.264 format, including fusion   |
|                     | Text comment                         | 60 seconds (save with image)  |
|                     | File Directory                       | Local selection and upload  |
| <b>Power supply</b> | Battery type                         | Li-ion battery, rechargeable  |
|                     | Operation time                       | Continuous working for more than 4 hours (LCD brightness 50%, when LED lighting is off)   |
|                     | Charging                             | Smart charger or random (AC power adapter or 12V car power supply)  |
|                     | Charging duration                    | Random charging for 1.5 hours greater than 50% capacity   |
|                     | Energy saving mode                   | Auto sleep, auto shut down  |
| <b>Interface</b>    | Memory card slot                     | Micro SD (TF) card holder   |
|                     | Power interface                      | Yes (DC12V)   |
|                     | Video output                         | Have  |
| <b>Others</b>       | microphone                           | Built-in  |
|                     | buzzer                               | Built-in  |
|                     | Tripod thread                        | 1/4 " -20-UNC   |
|                     | Handrail                             | Can be installed on both sides  |
|                     | lens cap                             | Have  |
|                     | Sunshade                             | Yes, optional   |
|                     | Working temp.                        | 0°C~+40°C   |

## Thermal Imaging Camera

|                                 |                      |   |
|---------------------------------|----------------------|---|
| <b>Environment parameters</b>   | Storage temp.        | -40°C~+70°C                                       |
|                                 | Humidity             | ≤95% (Non-condensing)                             |
|                                 | Protection grade     | IP54  |
|                                 | Shock resistance     | 25G, IEC68-2-29                                   |
|                                 | Vibration resistance | 2G, IEC68-2-6                                     |
|                                 | Drop                 | 2m  |
| <b>Physical characteristics</b> | Dimension            | 105x230x245mm                                     |
|                                 | Weight               | 980g  |
| <b>Memory Storage</b>           |                      | 8 G SD card, can expand to 32G                    |
| <b>Supported Languages</b>      |                      | Chinese/English/Japanese/Korean/ Russian/ Turkish |

### Electrical Specifications

|                              |  |
|------------------------------|--|
| <b>Power Source</b>          | AC power adapter or 12V car power supply |
| <b>Battery Type</b>          | Li-on battery, rechargeable              |
| <b>Battery Life</b>          | 3 years                                  |
| <b>Battery Charging Time</b> | 3 hours                                  |

### Mechanical Specifications

|                         |               |
|-------------------------|---------------|
| <b>Dimensions</b>       | 105x230x245mm |
| <b>Width</b>            | 105           |
| <b>Length</b>           | 230           |
| <b>Height</b>           | 245           |
| <b>Weight</b>           | 980g          |
| <b>Housing Material</b> | ABS           |

### Operation Environment Specifications

|   |                       |
|---|-----------------------|
| <b>Operating Temperature Range</b>      | 0°C~+40°C             |
| <b>Storage Temperature Range</b>        | -40°C~+70°C           |
| <b>Drop Test</b>                        | 2m                    |
| <b>Shock Resistance</b>                 | 25G, IEC68-2-29       |
| <b>Vibration Resistance</b>             | 2G, IEC68-2-6         |
| <b>Humidity (Operating and Storage)</b> | ≤95% (Non-condensing) |

## Thermal Imaging Camera



## Protection Category

|           |      |
|-----------|------|
| IP Rating | IP54 |
|-----------|------|

## Additional Information

|                      |  |
|----------------------|--|
| EAN                  |  |
| Custom Tariff Number |  |

## Classification

|                |  |
|----------------|--|
| eCl@ss Version |  |
| UNSPSC Version |  |

## Approvals

|                              |        |
|------------------------------|--------|
| Compliance/Certifications    | CE/FCC |
| Declarations                 |        |
| Hazardous Area Certification |        |

## Basic Dimensions/ Supplies &amp; accessories/ Included/ Kits

**T4-WH and T8-WH**  
Packing List

| S/N | Item                       | Quantity |
|-----|----------------------------|----------|
| 1   | Infrared Thermal camera    | 1        |
| 2   | Battery                    | 1        |
| 3   | Video cable                | 1        |
| 4   | Lens cover                 | 1        |
| 5   | SD Card                    | 1        |
| 6   | Card reader                | 1        |
| 7   | Handrails                  | 1        |
| 8   | Packing list               | 1        |
| 9   | Carrying case              | 1        |
| 10  | QC certificate             | 1        |
| 11  | USB speaker                | 1        |
| 12  | Blackbody                  | 1        |
| 13  | Tripod                     | 1        |
| 14  | Power adaptor              | 1        |
| 15  | Power cable for camera     | 1        |
| 16  | Power cable for black body | 1        |