

## 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.: **2012635**



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

This is a 160×120 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

<b>Detector</b>	types	Uncooled focal plane microbolometer
	Pixel	160×120
	Cell spacing	25µm
	Wavelength range	8-14µm
	Sampling frequency	50Hz
	Thermal sensitivity	0.06°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	2.72mrad
	Visible light camera	1.3 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-on 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
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## Approvals

Compliance/Certifications	CE/FCC
Declarations	
Hazardous Area Certification	

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

## 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