



Product Datasheet

ENGLISH

**Stock No: 136-5667/136-5668**

**Thermal Imager**

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## Specifications

Imaging and optical data	RS-700	RS-730
Field of view (FOV) / Minimum focus distance	17°x 17°/ 0.1m	19°x 25°/ 0.1m
Spatial resolution (IFOV)	3.78mrad	2.78mrad
IR resolution	80 x 80 pixels	160x120pixels
Thermal sensitivity/NETD	< 0.1°C @ +30°C (+86°F) / 100 mK	
Image frequency	50Hz	
Focus mode	Manual	
Zoom	1–32xcontinuous, digital zoom	
Focal length	9mm	
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8–14 μm	
<b>Image presentation</b>		
Display	2.8 in. LCD, 240 x 320 pixels	
Image modes	IR image、 Visual image、 Image Fusion	
Color palettes	IRON、 Rainbow、 Grey、 Grey Inverted	
<b>Measurement</b>		
Object temperature range	–20°C to +150°C (–4°F to +302°F) 0°C to +350°C (+32°F to +662°F)	
Accuracy	±2°C (±3.6°F) or ±2% of reading (Environment temperature 10°C-35°C , object temperature >0°C.)	
<b>Measurement analysis</b>		
Spot	Center Spot	
Automatic hot /cold detection	Auto hot or cold markers	
Emissivity correction	Variable from 0.01 to 1.0	
Measurement corrections	Emissivity, Reflected temperature	

<b>Storage of videos</b>	
Storage media	8Gbytes Micro SD card
Video storage format	Standard MPEG-4 encode, 1280x960@30fps, on memory card > 60 minutes
Video storage mode	IR/visual images; simultaneous storage of IR and visual images
<b>Storage of images</b>	
Image storage format	Standard JPEG, including measurement data, on memory card > 6000 pictures
Image storage mode	IR/visual images; simultaneous storage of IR and visual images
<b>Set-up</b>	
Laser	< class2
Set-up commands	Local adaptation of units, language, date and time formats, information of camera
Languages	multinational
<b>Digital camera</b>	
Built-in digital camera	5 Megapixels
Built-in digital lens data	FOV 59°
<b>Data communication interfaces</b>	
Interfaces	USB-mini, audio, HDMI
USB	Data transfees between camera and PC Live video between camera and PC
Video out	HDMI
Wifi (RS-700)	Peer-to-peer or network 802.11 b/g/n
<b>Power system</b>	
Battery	Li-ion battery, 4 hours operating time
Input voltage	DC 5V
Charging system	In camera (AC adapter)
Power management	Automatic shutdown

<b>Environmental data</b>	
Operating temperature range	-15°C to +50°C (5°F to +122°F)
Storage temperature range	-40°C to +70°C (-40°F to +158°F)
Humidity (operating and storage)	10%~90%
Drop test	2m
Bump	25g(IEC60068-2-29)
Vibration	2g(IEC60068-2-6)
<b>Physical data</b>	
Camera weight, incl. battery	<500g
Camera size (L x W x H)	224x77x96

### Standard Accessories

Item	Quantity	Description
Thermal Imager	1	
Lens	1	f = 9mm
Li-ion battery	1	3.7V, 2600mAH
Adaptor	1	Input AC Volts: 100V~240V、50/60HZ、 MAX 0.9A Output DC Volts: 5V、2400mA
Micro SD	1	8Gbyte
USB cable	1	
USB OTG cable	1	
Warranty Card	1	
PC software Installation CD	1	
Gift box & Carrying case	1	