



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	
Image presentation		
Display	2.8 in. LCD, 240 x 320 pixels	
Image modes	IR image、 Visual image、 Image Fusion	
Color palettes	IRON、 Rainbow、 Grey、 Grey Inverted	
Measurement		
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.)	
Measurement analysis		
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	

Storage of videos	
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
Storage of images	
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
Set-up	
Laser	< class2
Set-up commands	Local adaptation of units, language, date and time formats, information of camera
Languages	multinational
Digital camera	
Built-in digital camera	5 Megapixels
Built-in digital lens data	FOV 59°
Data communication interfaces	
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
Power system	
Battery	Li-ion battery, 4 hours operating time
Input voltage	DC 5V
Charging system	In camera (AC adapter)
Power management	Automatic shutdown

Environmental data	
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)
Physical data	
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	