



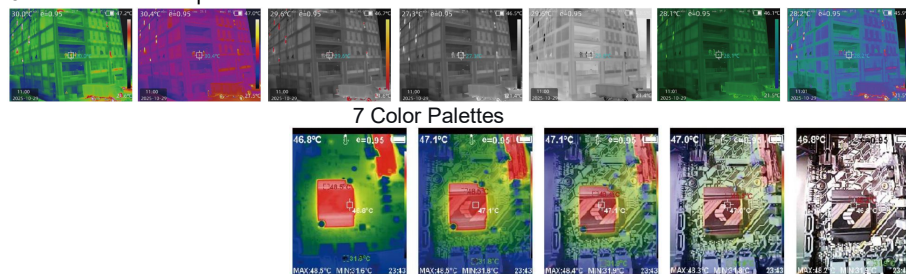
EK-R384/R640 Infrared Thermal Imager

Product Function

Surface Temperature Measurement and Real-Time Thermal Image Analysis

Product features

1. Adjustable emissivity improves measurement accuracy on semi-reflective surfaces.
2. Maximum and minimum temperature cursors guide the user to the hottest and coldest areas within the thermal image.
3. Selectable color palettes are available.



Technical Specification

Adjustable Imaging

Product Model	EK-R384	EK-R640
Infrared Resolution	384×288	640×512
NETD	≤50mk@25℃, @F/1.0	≤40mK @F/1.0
Color Palettes	5 Color Palettes (Rainbow / Iron Red / Cool / White Hot / Black Hot)	7 Color Palettes (Rainbow / Iron Red / Cool / White Hot / Black Hot / Red Hot / Micro)
Internal Storage	Built-in 16GB (User available storage approx. 13.4GB)	Built-in 32GB (User available storage approx. 30GB)
Menu Languages	Chinese, English, Spanish	Chinese, English
Product Weight	Approx. 1.1kg (including accessories)	Approx. 2.02kg (including accessories)
Power Supply	Built-in rechargeable, 26650 lithium battery	
Battery Capacity	5000mAh	
Power Interface	Type-C	
Display Screen	3.5-inch (640×480)	
Image Display Modes	Infrared/Visible Light/Mix/Picture-in-Picture	
Image/Video Storage Format	JPG/MP4	
Image/Video Export Method	USB connection to computer	
Image Analysis Function	PC offline analysis supported	
Infrared Detector Type	Vanadium oxide uncooled infrared focal plane	
Infrared Spectral Response	8 至 14μm	
Pixel Size	12μm	
Lens Focal Length	9.1mm	
IFOV	1.32mrad	
Focus Mode	Manual focus	
Temperature Measurement Range	Low range: -20℃ ~ +120℃ (-4°F ~ 248°F); High range: 120℃ ~ +550℃ (248°F ~ 1022°F)	
Temperature Measurement Accuracy	EK-R385: -15℃ ~ 550℃: ±2℃ or ±2%; -20℃ ~ -15℃: ±4℃ EK-R640: -15℃ ~ 550℃: ±2℃ or ±2%; -20℃ ~ -15℃: ±2℃	
Temperature Resolution	0.1℃	
Temperature Measurement Mode	Center spot / Hot & cold spot tracking	
Emissivity Setting	0.01 ~ 1.00 adjustable	
0.01 ~ 1.00 adjustable	≤25Hz	
Visible Light Resolution	640×480	
Operating Time	≥4 hours	
Auto Power Off	5min / 10min / 20min / Disabled	
Meter Weight	EK-R385: Approx. 605g (with battery); Total weight: approx. 1.1kg (with accessories) EK-R640: Approx. 624g (with battery); Total weight: approx. 2.02kg (with accessories)	
Meter Dimensions	256mm×95.8mm×128.9mm	
Operating Temperature & Humidity	-10℃ ~ +50℃; 10% ~ 85% RH (non-condensing)	
Storage Temperature	-20℃ ~ +60℃	

