

Comparison of REED Thermal Imagers



MODEL	R2160	R2170
MEASUREMENT SPECIFICATIONS		
Temperature Range	14 to 752°F (-10 to 400°C)	-40 to 752°F (-40 to 400°C)
Accuracy	±3.6°F (2°C) or ±2% rdg	±3.6°F (2°C) or ±2% rdg
Resolution	0.1°F (°C)	0.1°F (°C)
DETECTOR SPECIFICATIONS		
Detector Type	Uncooled Vanadium Oxide, Focal plane array (FPA)	Uncooled Vanadium Oxide, Focal plane array (FPA)
Spectral Range	8 to 14µm	8 to 14µm
IR Resolution	160 x 120 (19,200 pixels)	320 x 240 (76,800 pixels)
IMAGING AND OPTICAL SPECIFICATIONS		
Field of View (FOV)	56° x 42°	56° x 42°
Focal Length	1.1mm	4.0mm
Measuring Distance	0.82' (0.25m)	0.98' (0.30m)
Spatial Resolution	11 mrad (IFOV)	3 mrad (IFOV)
Thermal Sensitivity (NETD)	<0.05°C (50mK)	<65mK
Image Capture Frequency	9Hz	9Hz
Focus	Fixed	Fixed
IMAGE PRESENTATION AND MEASUREMENT ANALYSIS		
Display	2.8" color TFT	3.5" color IPS
Color Palettes	5 (Iron/Rainbow/Gray/Red-White/White-Blue)	7 (Ironbow/Rainbow/Rainbow (HC)/Lava/Red-Hot/White-Hot/Black-Hot)
On-Screen Temperature Markers	3 (Center/High Temp/Low Temp)	3 (Center/High Temp/Low Temp)
Image Measurement Tools	With Software	5 Points/3 Rectangles/3 Circles/1 Line (add up to 6)
Emissivity	Adjustable (0.01 to 0.99)	Adjustable (0.01 to 1.00)
Isotherm	N/A	Yes (Below, Above, Interval)
Temperature Span	Automatic	Automatic/Manual
Temperature Alarm Indicators	High/Low (user adjustable)	High/Low (user adjustable)
GENERAL SPECIFICATIONS		
Image Capture Modes	1 (Single)	2 (Single/Time-Lapse)
Display Resolution	320 x 240 pixels	640 x 480 pixels
Digital Zoom	N/A	Yes (2x/4x)
Image Format	BMP	JPG
LED Flashlight	Yes	Yes (Dual)
External Memory	Micro SD card	Micro SD card
Auto Shut-off	Yes (user adjustable 5/10/30 minutes)	Yes (user adjustable 5/10/20/30/45/60/90 mins)
Tripod Mountable	Yes	Yes
Low Battery Indicator	Yes	Yes
Power Supply	3.7V/5000mAh rechargeable Li-ion battery	3.7V/5200mAh rechargeable Li-ion battery
Battery Life	Approx. 6 hours	Approx. 3.5 hours
Charge System	In camera	In Camera or Battery (USB-C)
Charge Time	4 hours	Approx. 4 hours
PC Connectivity	USB Cable (Type-C)	USB Cable (Type-C)
Software	Yes (download from website)	Yes (download from website)
Software Functionality	Image Analysis	Image Analysis/Live Camera Feed/Report Generation
Software OS Compatability	Windows 7/8/10/11	Windows Vista/7/8/10/11
Supported Languages	English and French	English, French, German and Spanish
Product Certifications	CE, IP65, 6.5' (2m) drop test	CE, UKCA, IP54, 6.6' (2m) drop test
Operating Temperature	32 to 122°F (0 to 50°C)	32 to 122°F (0 to 50°C)
Storage Temperature	-4 to 140°F (-20 to 60°C)	14 to 140°F (-10 to 60°C)
Operating Humidity	10 to 90% RH	10 to 95% RH
Operating Altitude	6561' (2000m)	6561' (2000m)
Dimensions	9.3 x 3 x 3.4" (236 x 76 x 86mm)	10.2 x 3.9 x 3.8" (260 x 99 x 97mm)
Weight	1 lb (454g)	1.4 lb (630g)

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