Guide sensmart

B Series

Tool-like Thermographic IR Camera

Introduce

B series is an efficient, budget-friendly and completely equipped infrared camera. This robust and very handy high-tech system thanks to its intuitively learnable handling and user-friendly single hand operation, which makes it an ideal tool for troubleshooting electrical installations, mechanical components, buildings, process equipment, HVAC/R equipment and others.

Application

Electric inspection and diagnosis / Building inspection and diagnosis / Mechanical equipment maintenance / Manufacturing process service / Petrochemical industry maintenance

Features and Benefits

• Friendly UI, easy to use without training
• Affordable as entry level diagnostic tool
• Removable Large capacity Li-ion battery, 4 hour working time
• 3.5" large screen with no image cropping, high brightness screen to show image with no detailed information lost even outdoor or in highlight
• Rugged and compact design, metal internal structure
• Standard Micro USB interface for data transmission and charging
• Optional Wi-Fi connection with notebook or mobile

Specifications

B Series	B160	B160V	B256V	B320V
Imaging Performance				
IR resolution	160×120	160×120	256×192	320×240
NETD	≤50mk			
Focal Length	11mm/F1.0	5mm/F1.2	7mm/F1.1	7mm/F1.1
FOV	20.6°×15.5°	30°×23°	34.5°×26.5°	42.5°×32.5°
IFOV	2.25mrad	3.30mrad	2.36mrad	2.33mrad
Frame rate	25Hz/9Hz			
Focus	Manual	fixed		
Detector				
Detector type	VOx/ 8~14μm			
Pixel size	25μm	17μm		
Visible light				
Resolution	N/A	640×480, Automatic		
Image Presentation				
Display	3.5" highlight LCD screen, 320×240			
Image modes	IR image	IR image , Visible image , MIF , PIP		
Digital zoom	×2 , ×4			
Color palettes	6			
Measurement				
Temperature range	-20℃-350℃			
Accuracy	±2℃ or ±2% of reading for ambient temperature 15℃ to 35℃ and object temperature above 0℃			
Measurement Analysis				
Spotmeter	Center spot			
Auto tracking	Area Tmax/Tmin tracking			
Emissivity correction	Variable from 0.01 to 1.00			
Alarm	Area Tmax/Tmin alarms			
Storage				
Storage medium	SD card (8G)	Removable SD card (16G)		
Image format	JPG with temp info			
Video Streaming	transferred to via USB			
Interface				
Interface	Micro USB (for real-time image/ video transmission)			
WIFI	N/A	Yes (for data transfer and camera control)		
Power System				
Battery	Rechargeable Li-ion battery, ≥4h, Automatic shut-down and sleeping mode			
Environmental Parameters				
Operating temp range	-10℃~50℃			
Storage temp range	-40℃~70℃			
Encapsulation	IP43 , 1m drop			
Humidity	10% ~ 95%			
Shock	30g （ IEC 60068-2-27 ）			
Vibration	10HZ~150HZ~10HZ 0.15mm IEC60068-2-6			
Weight	740g (battery included)			
Size	258mm×98mm×90mm			