AVYCON®

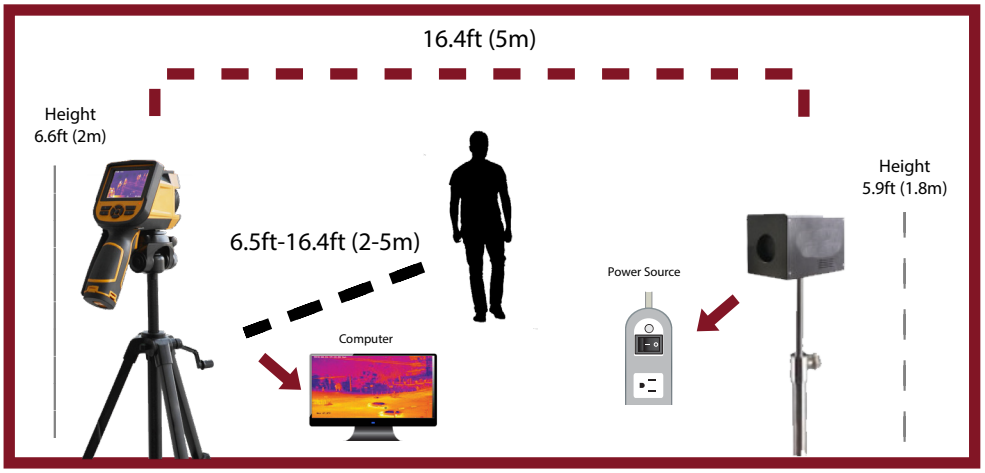
AVT-BT130MT-B

Body Temperature Thermal Measurement Tool

Blackbody Real-Time Calibration

High-Precision Body Temperature Measurement Algorithm

More Accurate Temperature Measurement | Significantly Improved Stability | Long-Distance Rapid Screening



Features

- 24 hours of nonstop work from external power
- Full video image recording on external display
- Non-contact rapid screening that avoids cross infection
- High-precision body temperature measurement algorithm

Standard Included Accessories


Carrying Case


Tripod


Black Body


Battery


Video Cable


MicroSD Card


Power Adapter

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Specifications

Detector	
Detector Type	Uncooled focal plane microbolometer
Resolution	160 x 120
Cell Spacing	23μm
Wavelength Range	8-14μm
Sampling Frequency	50Hz
Thermal Sensitivity	0.06°C @ 30°C

Lens	
Field of View	25° x 19°
Nearest Object Distance	10cm
Focusing Method	Manual focus
Interface Method	Bayonet connection

Performance	
Spatial Resolution	2.72mrad
Visible Light Camera	1.3 million pixel CMOS module, built-in 2 LED fill light
Frame Rate	50Hz / 60Hz, optional
Video Output	PAL / NTS, optional

Image	
LCD	3.5" TFT LCD, 640 x 480, color
Color Palette	11 color palettes to choose from
Image Display	Infrared image and visible light image can be quickly switched, infrared image and visible light image are fused
Image Adjustment	Auto / manual adjustment of contrast, brightness, auto enhancement mode

Measurement	
Temperature Measurement Range	20°C ~ 50°C (68°F ~ 122°F)
Temperature Measurement Accuracy	±0.3°C (±0.54°F)
Temperature Calibration	Auto (short time, long time, custom time) / manual
Measurement Mode	Full screen maximum temperature tracking, temperature alarm (sound, color)
Emissivity Correction	Adjustable from 0.01 to 1.0 (in increments of 0.01) or select from a list of predefined materials
Background Temperature Correction	Automatic
Atmospheric Transmittance Correction	Automatic, based on entered distance, ambient humidity and ambient temperature
Setting Function	Date / time, temperature unit C° /F° / K, language, contrast / brightness, LCD backlight, IP address

Storage	
Memory Card	8G Micro SD (TF) card, Max. 32G
Storage Method	Manual / automatic storage; single frame infrared image, infrared and visible light fusion image; infrared video, infrared and visible light fusion video
Thermal Image Format	JPEG format with raw infrared measurement data
Visible Light Image Format	H.264 format
Voice Note	JPEG format, H.264 format, including fusion
Text Comment	60 seconds (save with an image)
File Directory	Local selection and upload

Power Supply	
Battery Type	Li-on battery, rechargeable
Operation Time	Continuous work for more than 4 hours (LCD brightness 50%, when LED lighting is off)
Charging	Smart charger or random (AC power adapter or 12V car power supply)
Charging Duration	Random charging for 1.5 hours greater than 50% capacity
Energy Saving Mode	Auto sleep, auto shutdown

Interface	
Memory Card Slot	Micro SD (TF) card holder
Power Interface	Available (DC12V)
Video Output	Available

Additional Features	
Microphone	Built-in
Buzzer	Built-in
Tripod Thread	1/4" -20-UNC
Handrail	Can be installed on both sides
Lens Cap	Provided
Sunshade	Available, optional

General	
Working Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Temperature	-40°C ~ 70°C (-40°F ~ 128°F)
Humidity	≤95% (Non-condensing)
Protection Grade	IP54
Shock Resistance	25G, IEC68-2-29
Vibration Resistance	2G, IEC68-2-6
Drop	2m
Dimensions	4.13" x 9.1" x 9.6" (104.9mm x 231.1mm x 243.8mm)
Weight	2.16lbs (980g)

Black Body Parameter	
Temperature	37°C (98.6°F)
Accuracy	0.2°C (0.36°F)
Effective Radiation Plane	HT40: Φ80mm , Other Model: Φ70mm
Working Temperature	10°C ~ 35°C (50°F ~ 95°F), ≤ 80% RH
Power	220VAC 50Hz
Effective Emission	0.96
Dimensions	HT40: 9.8" x 6.8" x 7.5" (249mm x 173mm x 191mm) Other Model: 6.1" x 5.2" x 5.9" (154mm x 133mm x152mm)

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