AVYCON

AVT-BT320MT-B
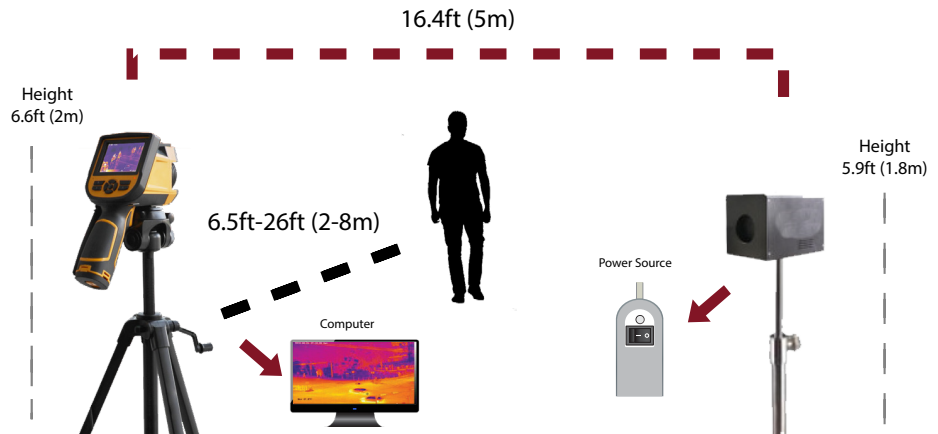
BODY TEMPERATURE THERMAL MEASUREMENT TOOL

OVERVIEW

- 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

DIMENSIONS

Unit : inch(mm)

16.4ft (5m)

Height
6.6ft (2m)

Height
5.9ft (1.8m)

6.5ft-26ft (2-8m)

Power Source

Computer

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	384 x 288
Cell Spacing	25µm
Wavelength Range	8-14µm
Sampling Frequency	50Hz
Thermal Sensitivity	0.04°C @ 30C
LENS	
Field of View	25° x 19°
Nearest Object Distance	10cm
Focusing Method	Manual focus
Interface Method	Bayonet connection
PERFORMANCE	
Spatial Resolution	1.36mrad
Visible Light Camera	3.2 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)
Temp. 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 Temp. 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 N/A
Thermal Image Format	JPEG format with raw infrared measurement data
Visible Light Image Format	H.264 format
Voice Note	JPEG format, H.264, 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
Mini-USB Interface	Can set IP address to transmit original image in real time
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 Temerature	-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)
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 x 152mm)

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