

## B1L Handheld Thermography Camera



The thermographic handheld camera is based on the thermal technology, specially designed for the needs of temperature measuring applications. People can quickly troubleshoot faults on-site.

### Key Features

- Thermal resolution: 160 x 120 (19 200 pixels)
- NETD : < 40 mK (@ 25 °C,F#=1.0)
- Temperature measurement range : -20 °C ~550 °C (-4°F~1022°F)
- Accuracy: Max ( $\pm 2^{\circ}\text{C}/3.6^{\circ}\text{F}$ ,  $\pm 2\%$ ), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)
- Measurement Presets: Center spot, Hot spot, Cold spot, User Preset Point
- 25 Hz image frequency
- 3.2" LCD screen display
- Up to 8 hours continuous running

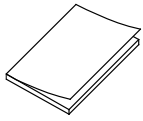
## Specification

<b>Thermal Module</b>	
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
IR Resolution	160 x 120 (19 200 pixels)
Pixel Pitch	17 $\mu\text{m}$
Spectral Range	8 - 14 $\mu\text{m}$
NETD	< 40 mK (@25°C), F#=1.0
Focal Length	3.5mm
FOV (Field of View)	32.9° × 44.4°
Image Frequency	25 Hz
Focus	Fixed
IFOV (Spatial Resolution)	4.85 mrad
Aperture	F1.1
Minimum Focus Distance	0.3 m (0.98 ft)
<b>Image Display</b>	
Display	320 × 240 Resolution, 3.2" LCD Screen
Color Palettes	White Hot, Black Hot, Rainbow, Ironbow
<b>Measurement and Analysis</b>	
Object Temperature Range	-20 °C to 550 °C (-4 °F to 1022 °F)
Accuracy	Max ( $\pm 2^\circ\text{C}/3.6^\circ\text{F}$ , $\pm 2\%$ ), for ambient temperature 15°C to 35°C (59°F to 95°F) and object temperature above 0°C (32°F)
Measurement Presets	Center Spot, Hot Spot, Cold Spot, Point Presets, Off
High Temperature Alarm	Audible Warning
<b>Storage</b>	
Storage Media	EMMC (4 GB)
Image Storage Capacity	30 000 Images
Image File Format	BMP with Measurement Data Included
<b>Functions</b>	
Wi-Fi	802.11 b/g/n (2.4GHz)
UVC Cast Screen	Yes
Level/Span	Auto/Manual
<b>Power System</b>	
Power Supply	3.7 V DC/0.4 A
Power Consumption	1.5 W
Battery Type	Rechargeable Li-ion Battery
Battery Operating Time	8 Hours Continuous Running

**General**

Menu Language	17 Languages English, Russian, Hungarian, German, Italian, Czech, Slovak, French, Polish, Portuguese, Spanish, Romanian, Danish, Turkish, Korean, Traditional Chinese, Japanese
Working Temperature Range	-10 °C to 50 °C (14 °F to 122 °F)
Storage Temperature Range	-20 °C to 60 °C (-4 °F to 140 °F)
Protection Level	IP54
Drop Test Height	2 m (6.56 ft)
Interface	USB Type-C
Weight	Approx. 360 g (0.79 lb)
Dimension	221.7 mm × 123.8 mm × 73.5 mm (8.73 " × 4.87 " × 2.89 ")
Tripod Mounting	UNC ¼"-20

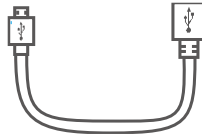
## Package Contents



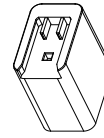
Quick Start Guide  
(x1)



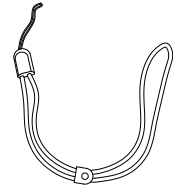
Adapters (x5)



USB Cable (x1)



Power Adapter (x1)

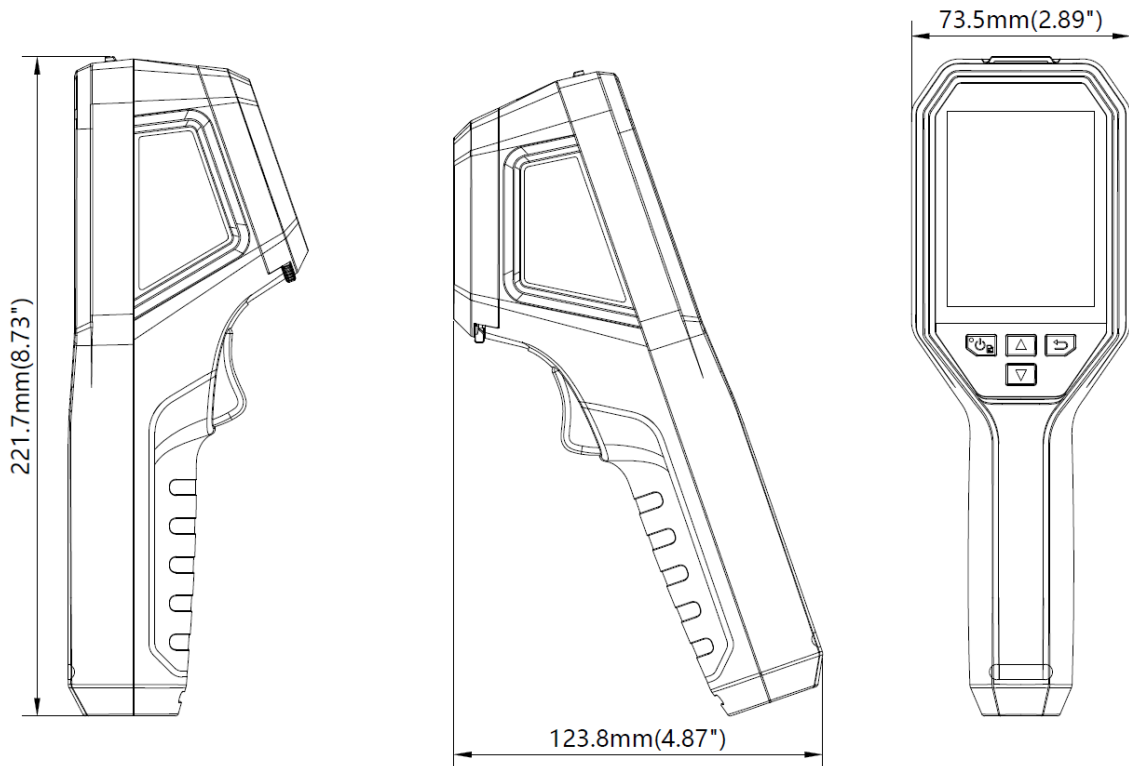


Wrist Strap (x1)

## Order Model

HM-TP51-3AXF-B1L

## Dimension



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