

Table of Contents

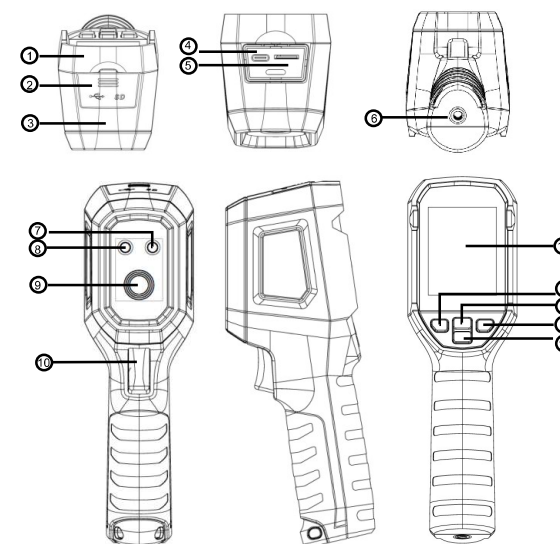
1. Specifications -----	22
2. Structure -----	24
3. LCD Indicators/Icons -----	25
4. Power on/off -----	25
5. Menu -----	26
6. Image View -----	26
7. Temperature Mark -----	27
8. HI/LO Alert -----	27
9. LED light -----	28
10. Palette -----	28
11. Language -----	29
12. Temperature Unit -----	29
13. Emissivity -----	30
14. Laser -----	30
15. Time & Date -----	31
16. Brightness -----	31
17. Auto Power Off -----	32
18. Auto Save -----	32
19. Format SD -----	33
20. Device Info -----	33
21. Factory Reset -----	34
22. USB Communication and PC Analysis Software -----	34
23. Maintenance -----	34
24. Safety Instructions -----	35
25. Appendix -----	35

1. Specifications

Sensor	Uncooled infrared focal plane thermal imaging sensor
Pixel size	17μm
Infrared spectrum bandwidth	8~14μm
Thermal imaging pixels	10800 (120*90)
Thermal imaging sensitivity	<60mK
Field of view (FOV)	50°(H) x 38°(V)
Spatial resolution (IFOV)	7.6 mrad
Rate	25Hz
Minimum imaging distance	0.1m
Focus	Focus-free
Temperature range	-20°C 400°C
Accuracy	±2°C or ±2% whichever is greater (-10°C 400°C room temperature 25°C)
Measurement units	°C/°F
Resolution	0.1°C
Emissivity	0.95 (default) 0.01 0.99
Temperature display	Center point temperature, high/low temperature tracking
Palettes	lava rainbow HC black hot white hot, iron, Rainbow
Display type	2.4" TFT LCD
Display resolution	320 x 240

Buttons	4 buttons (power, up, down, OK) 1 trigger
Laser	√(Class 2)
LED Light	√
Temperature alarms	LCD, LED, buzzer
Image storage	Micro SD Card
Image format	BMP
PC analysis software	√
USB communication	Type-C USB
Battery	Li-ion 3.7V/2600mAh 18650
Operating time	Continuous operating time >9h
Charging time	≤2.5h
Charging voltage/current	5V / 2A
Power on speed	0s (wake up) / 5s (power on)
Auto power off	5min/10min/30min(default)/off
Operating temperature	0 50°C 32 140°F
Storage temperature	-20 60°C -4 140°F
Operating humidity	85%RH Operating humidity
IP rating	IP54
Drop proof	2m
Product size (L×W×H)	197 x 72 x 60 mm
Product weight	310g
Certificates	CE 、UKCA、RoHS
Accessories	User manual, Type-C USB cable, 16GB Micro SD card

2. Structure



Item	Description	Item	Description
1	Upper housing	9	Infrared camera lens
2	Interface protection cover	10	Image capture/trigger
3	Lower housing	11	LCD
4	USB Type-C interface	12	OK
5	SD card slot	13	Up
6	Bracket screw hole	14	Power / Back
7	Laser emission aperture	15	Down
8	LED light		