

i-640

Performance Thermal Camera



The i-640 is a handheld thermal camera, which come with a Android App, meaning a second person nearby can see what is being surveyed by the person operating the thermal camera. This can be useful if the area being scanned is a small space such as ceiling panels or areas which are restricted to one person.

The i-series cameras have a fixed screen which replaces our regular flip screen design of cameras, offering the end user a different type of camera display. There are 4 imaging modes and 7 colour palettes allowing the end-user to select the modes most suitable to their surveys. The temperature measurement range is $-20^{\circ}\text{C} \sim +1000^{\circ}\text{C}$, with accuracy of $\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of readings.

It comes with a rechargeable battery that can be charged using a USB-C which allows for fast charging. The i-640 is a very versatile range of handheld thermal cameras that be used in a wide range of applications from mechanical to electrical & power surveying.



Key Features

- 640x512 IR Detector
- New Fixed Screen Design
- 4.3" Touch Screen
- Analyse with Android App and using SATIR Report / Wizard
- 2x 4 Hour Battery operational time with 2 bay charging tech
- Wi-Fi Connectivity
- 8MP Digital Camera
- GPS

i-640 Specifications

Thermal Camera	i-640
Detector Type	Uncooled microbolometer
Detector Resolution	640x512
Super Resolution	1280x960
FOV/Min. Focus Distance	24°x18° /0.15m
Thermal Sensitivity (N.E.T.D)	≤ 0.03°C @30°C (30mK)
Spatial Resolution	0.68mrad
Spectral Range	7.5 14 micro meter
Frame Rate	25Hz/30Hz
Focus	Manual/Auto/Continuous LDM/ One shoot LDM, contrast & manual
Digital Zoom	1x to 8x
Measurement	
Temperature Range	-20°C ~ + 650°C, up to 1000° C
Accuracy	±2°C or ± 2% of readings
Colour Palettes	7 Colour Palettes includes: Iron red & Rainbow
Measurement Tools	Auto Hot/Cold Spot, Centre Spot, 3 Movable Spots, 3 Area, 1 Line
Image Presentation	
LCD Display	4.3" LCD Capacitive Touch, 640 x 480 pixels
Digital Camera	8MP
Image Enhancement	Yes
Image Mode	Thermal/Picture in Picture/CCD/Visual
Image Storage	
Type	64GB Removable SD Card
Image Format	JPG/JPEG include with detail measurement data
Video Format	MP4 (Non-Radiometric Video), RV (Radiometric Video)
Annotation	Voice & Text
Environment Specification	
Operating Temperature Range	-20°C ~ + 50°C
Storage Temperature Range	-20°C ~ + 60°C
Humidity	≤95%
Protective Performance	
Encapsulation	IP 54
Shock/Vibration	25G/2.5G
Physical Characteristics	
Weight	1KG
Dimensions	284.7mmx120.6mmx124.5mm
Power System	
Battery Operating Time	Replaceable, rechargeable battery, lithium-ion battery maximum 4 hours continuous operation
Ports	
Output Ports	USB and display port (HDMI), Bluetooth, Wi-Fi
Other Features	
Telephoto Lens	Additional lenses available 48°, 14° or 7° for improved measurement
Laser Distance Meter	Yes, 10-50M laser pointer
GPS	Yes

Please be aware specifications can change without notice