

FP21 Handheld Thermal Imager



The handheld thermal imager is a handheld temperature measurement product suitable for multiple scenarios. Equipped with a high-resolution detector, it delivers clear imaging and high thermal sensitivity, enabling effective detection of temperature variations and precise temperature measurement of targets. The handheld thermal imager supports multiple palettes, making it suitable for various on-site environments including fire detection, rescue, and buildings, etc.

▪ Features

- Thermal resolution: 256 x 192 (49,152 pixels), NETD: < 30 mK (@ 25 °C, F#=1.0)
- Temperature measurement range: -20°C to 550°C
- Measurement presets: Center spot, Hot spot, Cold spot
- 25 Hz image frequency
- 3.2" LCD screen display
- Support ODE and SuperIR image enhancement technologies
- Start up time: 9 second (with IR image), 10 second (with OSD)
- Support auto sleep mode
- Support screen lock function



• Specification

Infrared Image	
IR Resolution	256 × 192 (49,152 pixels)
NETD	< 30 mK (@ 25 °C, F#=1.0)
Image Frequency	25 Hz
Detector Pitch	12 μm
Spectral Range	7.5 to 14 μm
Focal Length	3.6 mm
F-number	F1.0
Field of View (FOV)	37.2° × 50.0°
Spatial Resolution (IFOV)	3.33 mrad
Min. Focus Distance	0.3 m (0.98 ft)
Focus Mode	Focus Free
SuperIR	Yes, on captured images and live view
Image Display	
Display	640 × 480 Resolution, 3.2"LCD Screen
Digital Zoom	1x, 2x, 4x
Color Palettes	Basic, Smooth, White Hot, Black Hot, Fire Detection, Rescue, Hot Area, Cold Area, Building
Image Modes	Thermal
Measurement and Analysis	
Object Temperature Range	Range -20°C to 150°C Range 0°C to 550°C
Measurement Tools	Center Spot, Hot Spot, Cold Spot
Data Storage and Communication	
Storage Media	Built-in 4 GB flash memory
Image Storage Capacity	Approx. 8400 Images
Video Storage Capacity	Approx. 26.5 h
Video File Format	MP4
General	
USB Interface	USB Type-C
LED Light	Yes
Battery Type	Rechargeable Li-ion battery
Battery Charging Time	Approx. 3 hours via USB; 4 hours with battery charger
Wi-Fi	Yes
Battery Operating Time	Approx. 6 hours
Protection Level	IP67, IEC 60529
Safety	EN 62368
Drop Test Height	2 m, IEC 60068-2-31
EMC	EN 301 489-1, EN 301 489-17, EN IEC 61000-6-2, EN IEC 61000-6-3
Vibration	2 g, IEC 60068-2-6
Shock	25 g, IEC 60068-2-27

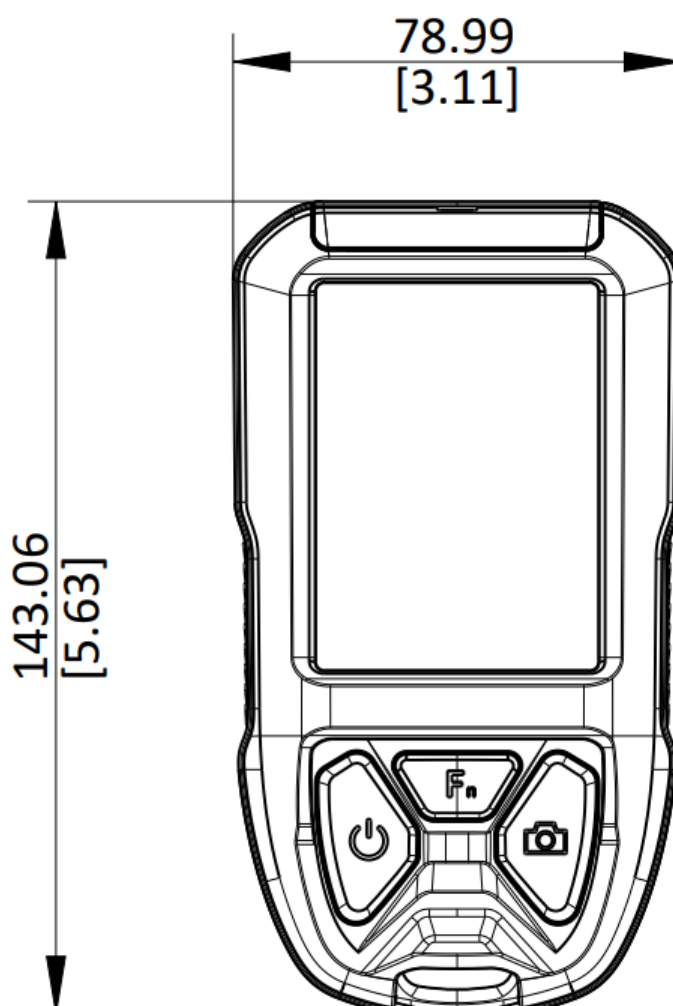


Working Temperature Range	-10°C to 55°C (default settings)
	85°C, 30min
	150°C, 10min
	260°C, 5min
Storage Temperature Range	-20°C to 60°C
Relative Humidity	IEC 60068-2-30, 24 hours, 95% relative humidity, 25–40°C, 2 cycles
Dimension	52.7×143×79 mm (2.1 × 5.6 × 3.1 in)
Weight	Approx. 398 g (0.88 lb)

▪ Available Model

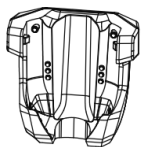
HRYXBSZ-256-FP21

▪ Dimension





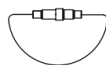
▪ Packaging List



Charging Base(x1)



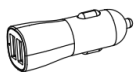
Imager Quick Start Guide(x1)



In-line Fuse(x1)



Charging Base Quick Start Guide(x1)



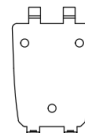
Car Cigarette Lighter(x1)



USB Cable(x1)



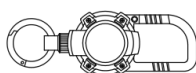
M5x16 Screws (x3)



Metal Bracket(x1)



Neck Strap(x1)



Retractable Lanyard(x1)



Patch Cable(x1)



M2.5x6 Screws (x2)

▪ COMPLIANCE NOTICE:

The thermal series products might be subject to export controls in various countries or regions, including without limitation, the United States, European Union, United Kingdom and/or other member countries of the Wassenaar Arrangement. Please consult your professional legal or compliance expert or local government authorities for any necessary export license requirements if you intend to transfer, export, re-export the thermal series products between different countries.



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*Note: Specifications are subject to change without notice. For the current specs,
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