FP31
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: 384 x 288 (110,592 pixels)
- NETD : < 30 mK (@ 25°C, F#=1.0)
- Temperature measurement range : -20°C to 650°C
- Start up time: 6 second (with IR image), 8 second (with OSD)
- 25 Hz image frequency
- 3.2" LCD screen display
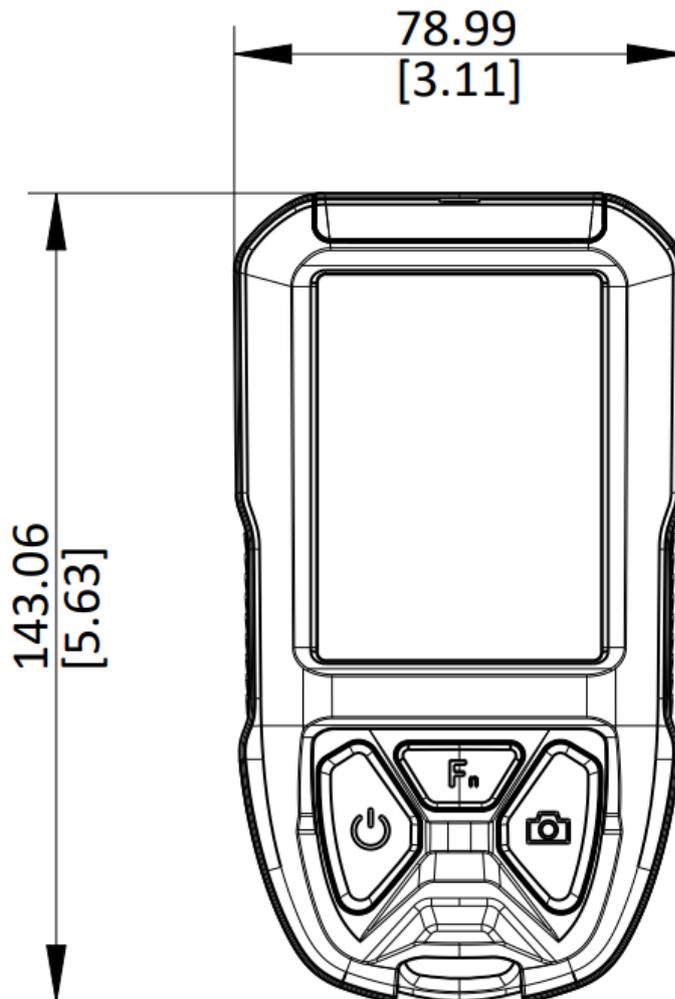- Image enhancement technology on live view and captured images

▪ Specification

Infrared Image	
IR Resolution	384 x 288 (110,592 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	6.7 mm
F-number	F0.9
Field of View (FOV)	40° × 29.8°
Spatial Resolution (IFOV)	1.79 mrad
Min. Focus Distance	0.5 m (1.64 ft)
Focus Mode	Focus Free
Image Display	
Display	640 × 480 Resolution, 3.2" LCD Screen
Digital Zoom	1x, 2x, 4x
Color Palettes	Basic, Smooth, White Hot, Fire Detection, Rescue, Hot Area, Cold Area, Building
Image Modes	Thermal/Fusion
Visual Camera	3264×2448 (8MP)
Measurement and Analysis	
Object Temperature Range	Range -20°C to 150°C Range 0°C to 650°C
Measurement Tools	Center Spot, Hot Spot, Cold Spot
Data Storage and Communication	
Storage Media	Built-in 128 GB flash memory
Image Storage Capacity	Approx. 327800 Images
Video Storage Capacity	Approx. 137 h
Video File Format	MP4
General	
USB Interface	USB Type-C
LED Light	Yes
Battery Type	Rechargeable Li-ion battery
Laser Pointer	Yes
Wi-Fi	Yes
Laser	Yes, Class II, Wavelength: 650nm; Power: <1mW
Laser Distance Meter	Yes
Battery Operating Time	Approx. 4 hours
Battery Charging Time	Approx. 3 hours via USB; 4 hours with battery charger
Protection Level	IP67, IEC 60529
Safety	EN 62368
Drop Test Height	2 m, IEC 60068-2-31
Vibration	2 g, IEC 60068-2-6
EMC	EN 301 489-1, EN 301 489-17, EN IEC 61000-6-2, EN IEC 61000-6-3
Shock	25 g, IEC 60068-2-27

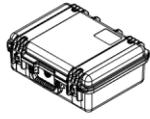| Working Temperature Range | -10°C to 55°C （default settings） |
	85°C，30 min
	150°C，10 min
	260°C，5 min
Relative Humidity	IEC 60068-2-30, 24 hours, 95% relative humidity, 25–40°C, 2 cycles
Storage Temperature Range	-20°C to 60°C
Weight	Approx. 420g (0.93 lb)
Dimension	52.7 × 143 × 79 mm (2.1 × 5.6 × 3.1 in)

▪ Available Model
HRYXBSZ-384-FP31

▪ Dimension

▪ Packaging List

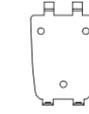|			
Carrying Case(x1)	Charing Base(x1)	Imager Quick Start Guide(x1)	In-line Fuse(x1)
Car Cigarette Lighter(x1)	USB Cable(x1)	M5x16 Screws (x3)	Metal Bracket(x1)
Neck Strap(x1)	Retractable Lanyard(x1)	Patch Cable(x1)	M2.5x6 Screws (x2)

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