

# M310

## Professional Infrared Camera

- Onboard image enhancement ensures crisp and vibrant thermal images
- Rotatable screen ensures more operation flexibility
- Expanded temperature measurement range for fast detection of hot spots and hidden anomalies in industrial environments
- Suitable for a wide range of PPM, industrial inspections, process control and failure diagnosis applications



THERMOGRAPHY CAMERAS

### SPECIFICATION

Model	M310
<b>Imaging &amp; Optical</b>	
Detector Type	Uncooled Microbolometer
Resolution	384×288@17μm
Super Resolution	Up to 768X576 pixels
Spectral Range	7.5 μm ~ 14 μm
Image Frequency	50Hz
NETD	≤50mk@30°C
FOV	24° × 18°
Minimum Focus Distance	15cm
Optional Lens	47° x 36.2° / 12.4° x 9.33° / 6.92° x 5.19°
IFOV	0.62mrad/0.31mrad with SR
Digital Zoom	1x-10x continuous zoom
Focus	Manual/Laser Automatic/Contrast Automatic
Display	5.5 inch Touch display screen, resolution 800*480
Viewfinder	Built-in 0.5 inch color OLED display
Digital Camera	5 Megapixel (Optional 13 Megapixel), with built-in LED lights
Image Mode	Infrared, Visible light image, PNP, Image enhancement mode(MFI), Thermal superposition image
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic
<b>Measurement &amp; Analysis</b>	
Temperature Measurement Range	-20°C~650°C (Optional up to 1500°C, 2000°C)
Temperature Accuracy	Temperature measurement range from 0°C to 100°C, is ±1°C; Other temperature measurement ranges is ± 2°C or ± 2%, take the maximum value
Temperature Measurement Mode	Real-time 20 movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)

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THE THERMOGRAPHY CAMBRAS

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Emissivity	Custom input and material table selection, range 0.01-1.0
Measurement Corrections	Emission rate, ambient temperature, reflection temperature, relative humidity, temperature measurement distance, and infrared window compensation
Rangefinder/Laser pointer	Distance shown on Screen
<b>Image Storage and Transfer</b>	
Image Storage	TF card, standard 64GB
Image Storage Mode	Infrared images and Digital camera images are saved simultaneously
Thermal Image Format	JPEG format, 16bit Radiometric IR digital image. Radiation infrared video recording and non-radiation infrared video recording in H.264 format
Digital Camera Image Format	JPEG format, H.264 format for Digital camera video recording
Voice	Supports 60 seconds of voice annotation, stored together with the image
Text Annotation	Preset text comments with editable text
Drawing	Drawing on IR Image
Programmable button	2 Programmable buttons
Transfer Interfaces	USB Type C, TF card, Bluetooth, and WiFi, HDMI Video out put
Software	IR Analyser for PC and Andriod-full analysis and reporting software, live stream on PC/Phone
4G	Yes(Optional)
GPS	Yes(Opitonal)
Compass	Electronic compass information save along with the map(Optional)
<b>Power supply</b>	
Battery Type	Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 4 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
<b>Environmental</b>	
Working Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
<b>Physical Specification</b>	
Weight	≤1.25kg(With a standard lens and battery)
Dimensions	192×124.5×85.5mm
Package Includes	IR thermal imager, rechargeable lithium battery * 2, Charging Dock, power adapter, USB cable, TF card, Card reader, Hand Strap, Packing list, Calibration Certificate, User manual, Warranty card, Carry Case

