

# Handheld Thermal Imaging Camera

## Protek T1M

Protek T1M portable thermal imaging camera is a 160x120pixel high-precision industrial thermal imaging camera with a thermal sensitivity of 0.06°C applied with a high-sensitivity infrared thermal imaging sensor. It can be used in various fields, and it is easy to write a measurement result report especially through the connection with a PC, so that the user can check the measurement data more conveniently.



### Feature

- Visible and full frame rate infrared temperature measurement
- 160\*120pixel thermal image with thermal sensitivity of 0.06°C, measuring up to ~250°C
- Measuring point setting such as high temperature point, low temperature point, center point, etc.
- Support high and low temperature alarm function
- 1.5m impact drop resistance and IP54 protection rating
- Small and light weight of 510g (including battery)
- USB TYPE-C interface for data transfer and fast charging
- Built-in 16GB memory card
- Equipped with 3.2"inch high-resolution TFT LCD screen
- Measurement data report function support (EXCEL)



Supports various measurement modes (4-color palette and thermal image, real image mode)

## Specifications

<b>Detector</b>	Type	Uncooled focal plane micro-heat type
	Pixel	160x120 pixel (19,200)
	Wavelength Coverage	8-14 um
	Sampling Frequency	60 Hz
	NETD	0.06°C@30°C
<b>Lens</b>	Angle of View Field	28° x 37°
	Focus Range	0.2m~ ∞
	Focusing mode	Fixed focus
<b>Figure Performance</b>	Spatial Resolution	4.4 mrad
	Visible light camera	Support
<b>Figure Display</b>	LCD	High resolution 3.2" TFT LCD, 240 x 320
	Pallet	4 optional pallets ( Iron red, rainbow, black hot, white hot )
	Display mode	Infrared image and visible image can be switched quickly
	Image Adjustment	Auto
<b>Measurement</b>	Temperature Range	-20°C~ +250°C
	Accuracy	±2°C or ±2% of measured value, whichever is greater
	Correction	Auto
	Mode	Fixed center point, full screen highest/lowest temperature, temperature alarm (sound, color)
	Radiance Correction	0.01 to 1.0 adjustable (0.01 increments)
	Setup Function	Date / time/ format, temperature in °C / °F/ K, language
<b>Data Saving</b>	Memory Card	16GB Built-in
	Saving Mode	Manual storage, single frame infrared
	Image Format	BMP / DLV format, with original infrared measurement data
<b>Power</b>	Battery	Rechargeable, replaceable lithium batteries
	Working Time	Continuous operation for over 3 hours
	Charging Mode	USB Type-C port
	Power Saving Mode	Auto sleep, Auto power-off
<b>Interface</b>	Data transmission	USB Type-C
	Video Output	VIDEO OUT Port support
	Tripod	Optional
<b>Environment</b>	Temperature	Working : -15°C- +49°C / Storage : 1°C- +30°C
	Humidity	≤80% Non-condensing
	Level of Protection	IP54
	Vibration resistance	2g , GB/T2423.10 ( IEC60068-2-6 )
	Shock resistance	30g , GB/T2423.5 ( IEC60068-2-27 )
	Falling	1.5 m, GB/T2423.8 ( IEC60068-2-32 )
<b>Safety regulations</b>		CE, RoHS/PAH, KC Certificate
<b>Size</b>	Dimension / Weight	240*88*135 mm (H*W*D) / 510g (Battery include)
<b>Standard Accessories</b>		storage pouch, battery, USB-C type cable, user manual

Product design and specifications are subject to change without prior notice to improve quality and performance.