

SATIR PX-100

1024x768 Thermal Camera



The Satir PX100 Super High-Resolution Thermal Camera embraces this necessity with groundbreaking technology that elevates thermal inspection to an unprecedented level. Equipped with a 1024x768 IR detector, this remarkable device provides crystal-clear images that are further enhanced through super resolution, effectively doubling the output to an impressive 2048x1536 pixels. One of the standout features of the PX100 is its broad temperature range.

This model operates seamlessly from -40°C to +650°C, with an optional extension reaching up to +2000°C. Such flexibility makes it an indispensable tool for professionals across various industries, especially in power and electrical sectors. The ability to analyze high-voltage electrical pylons and other targets from a distance ensures that users can operate safely while maintaining visibility.

Key Features



- **Experienced Professional Thermographer**
- **Image Mode:** IR image / Visual image (5MP) / Duo-vision / PIP/ MIF
- **Thermal Resolution:** 1024x768 plus super resolution
- **Temperature Range:** -40°C to 650°C up to 2000°C.
- **Accurate Measurement:** $\pm 2^{\circ}\text{C}$ or 2%.
- **Image Analysis:** point, line, and area temperature measurement.
- **Image storage:** Still, Video and real-time radiometric video
- **Additional Features:** Wi-Fi, GPS, Bluetooth, digital zoom
- **Designed for:** Experienced Professional thermographers all industries and applications

PX-100 Specifications

Thermal Camera	
Detector type	1024x768 UFPA
Thermal sensitivity	$\leq 0.02^{\circ}\text{C}$ @ 30°C or 20mK @ 30°C
Spatial resolution	0.48mRad
FOV	$24^{\circ} \times 18^{\circ}$
Focal Length	25mm
Focus Distance	0.15m
Spectral range	$7.5\mu\text{m} \sim 14\mu\text{m}$
Frame rate	60Hz * Inside the EU, outside 9 Hz
Focus	Manual/Motorized/Auto
Optional Lenses	$50^{\circ}, 14^{\circ}, 7^{\circ}$
Image presentation	
LCD display	5.8-inch capacitive touch screen, 1280x768 Screen Resolution
Palettes	10 Colour Palettes
Digital camera	HD 5MP
Digital Zoom	1x, 2x, 4x, 8x
Image storage & Connectivity	
Type	32GB removable SD card
Thermal Image Format	.jpg/.png (Full Temperature Data)
Thermal Video Format	Real—Time Radiometric recording (.irv)/.H264
Video output interface	Micro HDMI
Wifi	Yes
Laser Distance	Yes, 0.01m to 40m displayed on thermal image
GPS Function	Yes
Alarm Mode	Yes
Temperature measurement	
Measurement range	$-40^{\circ}\text{C} \sim +650^{\circ}\text{C}$ up to 2000°C (optional)

Please be aware specifications can vary from time to time

Optional Temperature Range	up to 1000°C/1500°C/2000°C, optional
Tracking Function	Yes
Analysis tool	10 movable spots, auto hot/cold, 10 area boxes, 5 line
Accuracy	± 2°C or 2% of readings
Environment specification	
Operating temperature range	-20°C~+55°C
Storage temperature	-40°C to 70°C
Humidity (operating and storage)	≤95%, non-condensing
Encapsulation	IP54
Physical characteristic	
Weight	1.5 KG (Includes Battery)
Dimension	192x173x116 mm
Tripod mounting	UNC¼"-20
Power system	
Battery Type	Removable Rechargeable DC12V Lithium Battery
Battery Life	> 3 hours
Charging Mode	Two Socket or 12V Car Charger

