

SATIR PX-400

High-Resolution Thermal Camera



The Satir PX400 High-Resolution Thermal Camera embraces a high-level detector 480x360 with a super resolution option, 960x720.

One of the standout features of the PX400 is its broad temperature range. This model operates seamlessly from -20°C to +410°C, with an optional extension reaching up to +2000°C. Such flexibility makes it an indispensable tool for professionals across various industries, especially in the power and electrical sectors.

The ability to analyse high-voltage electrical pylons and other targets from a distance ensures that users can operate safely while maintaining visibility. The Satir PX400 is designed with user experience in mind.

Key Features

- **Experienced Professional Thermographer**
- **Image Mode;** IR image / Visual image (5MP) / Duo-vision / PIP/ MIF
- **Thermal Resolution:** 480x360 plus super resolution
- **Temperature Range:** -20°C to 410°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-400 Specifications

Thermal Camera	
Detector type	480x360 UFPA
Thermal sensitivity	$\leq 0.04^{\circ}\text{C}@30^{\circ}\text{C}$
Spatial resolution	0.92mRad
FOV/Min. Focus distance	24° x18° /0.15m
Spectral range	7.5 μm ~14 μm
Frame rate	60Hz
Focus	Continuous LDM, One shot LDM, One-shot contrast, Manual
Super Resolution	Yes
Digital zoom	1x to 8x continuous
Image presentation	
LCD display	5 inch capacitive touch screen
Image mode	IR/CCD/Duo-vision/PiP
Digital camera	HD 5MP
Image Processing	Automatic/manual adjustment of contrast and brightness, auto-
Image enhancement	Yes
Image storage	
Type	32GB removable SD card
Temperature measurement	
Measurement range	-20~410°C, up to 1500/2000°C (Optional)
Pseudo color	10 types including Iron, Iron-inverted, Grey, Grey-inverted
Analysis tool	10 movable spots, auto hot/cold, 10 area boxes, 5 lines
Accuracy	$\pm 2^{\circ}\text{C}$ or $\pm 2\%$ of readings
Environment specification	
Operating temperature range	-20°C~+55°C
Ambient temperature range	-40°C~+70°C
Protective performance	
encapsulation	IP54
Shock/Vibration	25G/2G
Physical characteristic	
Weight	1.5 KG
Dimension	191x115x172mm
Power system	
Battery operating time	> 3hours
Ports	
Output ports	USB, Bluetooth, WIFI, HDMI

Other features	
Viewfinder	Yes, 1024x768 pixels
Ergonomic Optical	160°
Illuminator	Yes
Laser pointer	Yes
Laser ranging	Yes, 40 meters
QR code and Bar code	Yes
Video record	Yes
GPS	Yes
4G	Yes

Please be aware specifications can vary from time to time.

TELE LENS 6°

SATIR Europe TELE LENS 6°x4.5° FOR PX-400	
Field of view (FOV)	6°x4.5°
Focus distance	5.0 M (16,4 ft.)
Focal Length	70 mm (2.8 in.)
Lens Identification	Automatic
Spatial resolution (IFOV)	0.17 mrad/pixel
F-number	F1.0
Number of lenses	3
MTF @70% of FOV	0.8F≥0.20@30lp/mm
Distortion	< 1%
Weight	420g
Size (LxD)	φ88*80.3mm
Accessories	Lens mounting Instructions, Lens case, Front lens cap, Rear Lens cap, calibration (optional)

