

**TECHNOLOGY
PRODUCTS**



Infrared Thermal Camera PX100





- 5.8" Capacitive Touch Screen
- HD 5MP Visual Camera
- IR Resolution 384x288
- GPS
- Digital Zoom upto 8x



The SATIR PX-100 is a new generation handheld camera that has a new housing design for the industrial market. It features a 1024x768 IR detector which is the highest IR resolution on the market as it will deliver a clear, crisp image to the end-user on the touch screen. It also has a 5MP digital camera which is useful when comparing thermal and digital images in reports. Its connectivity options are Wi-Fi and the Micro HDMI. It has a wide temperature range of -20~+410°C, up to 2000°C upon request from the account manager. It has 10 colour palettes which allows the user to select the palette that best suits their needs and application.

The PX-100 is a premium thermal imager with its 1024x768 IR detector so it is best suited for those in the power and electrical industry who wish see electrical pylons at a distance. It is best suited to an experienced professional thermographer who will be able to understand and use all the capabilities of the PX-100.

Key Features

- 1024x768 IR Detector
- HD 5MP Digital Camera
- IR/Digital/Duo-vision/PiP/MIF
- Manual/Motorized/Auto Focus
- Real Time Radiometric Video Recording
- GPS Function
- **Optional Lenses Available: 6°/12°/48°**



Specifications:

- **Product Type:** Thermal Camera
- **Detector type:** 1024x768 UFPA
- **Thermal sensitivity:** $\leq 0.02^{\circ}\text{C}$ @ 30°C or 20mK @ 30°C
- **Spatial resolution:** 0.47mRad
- **FOV:** $28^{\circ} \times 21^{\circ}$
- **Focal Length:** 25mm
- **Focus Distance:** 0.35m
- **Spectral range:** $7.5\mu\text{m} \sim 14\mu\text{m}$
- **Frame rate:** 60Hz
- **Focus:** Manual/Motorized/Auto
- **Optional Lenses:** $48^{\circ}, 12^{\circ}, 6^{\circ}$

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°C~+650°C
- **Tracking Function:** Yes
- **Analysis tool:** 10 movable spots, auto hot/cold, 10 area boxes, 5 line
- **Accuracy:** $\pm 2^{\circ}\text{C}$ or 2% of readings

Environment specification

- **Operating temperature range:** -20°C~+55°C
- **Encapsulation:** IP54

Physical characteristic

- **Weight:** 1.77 KG (Includes Battery)
- **Dimension:** 247x90x177 mm

Power system

- **Battery Type:** Removable Rechargeable DC12V Lithium Battery
- **Charging Mode:** Two Socket or 12V Car Charger



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