

## SATIR PX-100

### 1024x768 Thermal Camera



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 by Wi-Fi and the Micro HDMI. It has a wide temperature range of -20~+650°C, up to 2000°C upon request with account manager. It has 10 colour palettes which allows the user to select the palette that best suits their needs and application.

### Key Features

- 1024x768 Detector Resolution
- 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°

# PX-100 Specifications

| Thermal Camera               |  |
|------------------------------|--|
| Detector type                | 1024x768 UFPA  |
| Thermal sensitivity          | $\leq 0.03^{\circ}\text{C}$ @30 $^{\circ}\text{C}$   |
| Spatial resolution           | 0.48mRad   |
| FOV                          | 24 $^{\circ}$ x18 $^{\circ}$   |
| Focal Length                 | 25mm   |
| Focus Distance               | 0.5m   |
| Spectral range               | 7.5 $\mu\text{m}$ ~14 $\mu\text{m}$  |
| Frame rate                   | 25Hz   |
| 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            | -20 $^{\circ}\text{C}$ ~+650 $^{\circ}\text{C}$  |
| Optional Temperature Range   | up to 1000 $^{\circ}\text{C}$ /1500 $^{\circ}\text{C}$ /2000 $^{\circ}\text{C}$ , optional |
| 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 $^{\circ}\text{C}$ ~+55 $^{\circ}\text{C}$   |
| Encapsulation                | IP54   |
| Physical characteristic      |  |
| Weight                       | 1.5 KG (Includes Battery)  |
| Dimension                    | 192x173x116 mm   |
| Power system                 |  |
| Battery Type                 | Removable Rechargeable DC12V Lithium Battery   |
| Charging Mode                | Two Socket or 12V Car Charger  |

Please be aware specifications can vary from time to time