





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. It connectivity options are by Wi-Fi and the Micro HDMI. It has a wide temperature range of -20~+410°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 suit 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

Detector type	Thermal Camera	
Spatial resolution 0.48mkad FOV 27.6° x20.8° Focal Length 27.6° x20.8° Focal Length 25mm Focus Distance 0.5m Spectral range 7.5µm²14µm Frame rate 25Hz Frame rate 25Hz Focus Manual/Motorized/Auto Optional Lenses 48°,12°,6° 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 ipg/.png (Full Temperature Data) Thermal Video Format Real—Time Radiometric recording (.irv)/.H264 Video output interface Micro HDMI Wiff Yes Laser Distance Yes, Displayed on thermal image GPS Function Yes Alarm Mode Yes Temperature Range 430°C°+450°C (Low Temperature Range) 0°C°+410°C (Medium Temperature Range) 430°C°+650°C/+300°C°+2000°C/Other Ranges (High Temperature Range) Temperature Range) 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 P54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Detector type	1024x768 UFPA
FOV 27.6" x20.8" Focal Length 25mm Focus Distance 0.5m Spectral range 7.5µm"14µm Frame rate 25Hz Focus Manual/Motorized/Auto Optional Lenses 48",12",6" 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 ipg/.png (Full Temperature Data) Thermal Video Format Real—Time Radiometric recording (.irv)/.H264 Video output interface Micro HDMI Wifi Yes Laser Distance Yes, Displayed on thermal image GPS Function Yes Alarm Mode Yes Temperature measurement Measurement range -20"C"+150"C (Low Temperature Range) 0"C"+410"C (Medium Temperature Range) Tracking Function Yes Analysis tool 10 movable spots, auto hot/cold, 10 area boxes, 5 line Accuracy ±2"C" c"+55"C Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Thermal sensitivity	≤0.03℃@30℃
Focal Length 25mm Focus Distance 0.5m Spectral range 7.5µm-14µm Frame rate 25Hz Focus Manual/Motorized/Auto Optional Lenses 48°,12°,6° 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, Displayed on thermal image GPS Function Yes Alarm Mode Yes Temperature measurement Measurement range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Optional Temperature Range +300°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) 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 Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Spatial resolution	0.48mRad
Focus Distance Spectral range 7.5µm*14µm Frame rate Focus Manual/Motorized/Auto Optional Lenses Image presentation LCD display S.8 inch capacitive touch screen, 1280x768 Screen Resolution Palettes 10 Colour Palettes Digital camera HD 5MP Digital Zoom 1x,2x,4x,6x Image storage & Connectivity Type 32GB removable SD card Thermal Image Format Jipg/.png (Full Temperature Data) Thermal Video Format Wifi Yes Laser Distance GPS Function Ves Alarm Mode Yes Temperature measurement Measurement range -20°C*+150°C (Low Temperature Range) 0°C*+410°C (Medium Temperature Range) 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 Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery	FOV	27.6° x20.8°
Spectral range 7.5 µm**14 µm Frame rate 25 Hz Focus Manual/Motorized/Auto Optional Lenses 48*,12*,6* 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 32 GB 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, Displayed on thermal image GPS Function Yes Alarm Mode Yes Temperature measurement Measurement range 20*C*+150*C (Low Temperature Range) 0*C*+410*C (Medium Temperature Range) Optional Temperature Range +300*C*+650*C/+300*C*-+2000*C/Other Ranges (High Temperature Range) Tracking Function Yes Analysis tool 10 movable spots, auto hot/cold, 10 area boxes, 5 line 4.2curacy	Focal Length	25mm
Frame rate Focus Manual/Motorized/Auto Optional Lenses 48°,12°,6° Manual/Motorized/Auto Optional Lenses 48°,12°,6° Manual/Motorized/Auto Optional Lenses May 5.8 inch capacitive touch screen, 1280x768 Screen Resolution Palettes 10 Colour Palettes Digital camera Digital Zoom 1x,2x,4x,8x Image storage & Connectivity Type 32GB removable SD card Thermal Image Format Jipg/,png (Full Temperature Data) Thermal Video Format Real—Time Radiometric recording (.irv)/.H264 Wifi Yes Laser Distance Yes, Displayed on thermal image GPS Function Yes Alarm Mode Yes Temperature measurement Measurement range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Optional Temperature Range +300°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) Tracking Function Yes Analysis tool 10 movable spots, auto hot/cold, 10 area boxes, 5 line Accuracy Environment specification Operating temperature range -20°C~+55°C Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Focus Distance	0.5m
Manual/Motorized/Auto	Spectral range	7.5μm~14μm
Image presentation S.8 inch capacitive touch screen, 1280x768 Screen Resolution Palettes 10 Colour Palettes 10 Colour Palettes 10 Evaluation 10	Frame rate	25Hz
Image presentation	Focus	
LCD display 5.8 inch capacitive touch screen, 1280x768 Screen Resolution Palettes 10 Colour 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 Thermal Video Format Real—Time Radiometric recording (.irv)/.H264 Video output interface Micro HDMI Wifi Yes Laser Distance GPS Function Yes Alarm Mode Temperature measurement Measurement range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Optional Temperature Range -20°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) 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 Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery	•	48°,12°,6°
Palettes Digital camera HD 5MP Digital Zoom Ix, 2x, 4x, 8x Image storage & Connectivity Type 32GB removable SD card Thermal Image Format Jipg/.png (Full Temperature Data) Thermal Video Format Real—Time Radiometric recording (.irv)/.H264 Video output interface Micro HDMI Wifi Yes Laser Distance Yes, Displayed on thermal image GPS Function Yes Alarm Mode Yes Temperature measurement Measurement range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Dptional Temperature Range -20°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) 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 Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Image presentation	
Digital camera	LCD display	5.8 inch capacitive touch screen, 1280x768 Screen Resolution
Digital Zoom 1x,2x,4x,8x Image storage & Connectivity 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, Displayed on thermal image GPS Function Yes Alarm Mode Yes Temperature measurement Measurement range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) 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 Physical characteristic Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Palettes	10 Colour Palettes
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, Displayed on thermal image GPS Function Yes Alarm Mode Yes Temperature measurement Measurement range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Optional Temperature Range +300°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) 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 Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery		HD 5MP
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, Displayed on thermal image GPS Function .Yes Alarm Mode .Yes Temperature measurement Measurement range .20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Optional Temperature Range .4300°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) 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 Encapsulation .IP54 Physical characteristic Weight .1.5 KG (Includes Battery) Dimension .192x173x116 mm Power system Battery Type .Removable Rechargeable DC12V Lithium Battery		1x,2x,4x,8x
Thermal Image Format Thermal Video Format Real—Time Radiometric recording (.irv)/.H264 Video output interface Micro HDMI Wiff Ves Laser Distance GPS Function Alarm Mode Temperature measurement Measurement range Optional Temperature Range Tracking Function Analysis tool Analysis tool Accuracy Environment specification Operating temperature range Power system Battery Type Removable Rechargeable DC12V Lithium Battery Micro HDMI Real—Time Radiometric recording (.irv)/.H264 Micro HDMI Real—Time Radiometric recording (.irv)/.H264 Micro HDMI Real—Time Radiometric recording (.irv)/.H264 Ves Ves Ves (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Image storage & Connectivity	
Thermal Video Format Real—Time Radiometric recording (.irv)/.H264 Video output interface Micro HDMI Ves Laser Distance GPS Function Alarm Mode Temperature measurement Measurement range Optional Temperature Range Optional Temperature Range Tracking Function Analysis tool Analysis tool Analysis tool Accuracy Environment specification Operating temperature range Poyer System Battery Type Removable Rechargeable DC12V Lithium Battery Micro HDMI Aves Micro HDMI Aves Micro HDMI Aves Micro HDMI Aves Alarm Mode Yes 1-20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Temperature Range) -20°C~+50°C/+300°C~+2000°C/Other Ranges (High Temperature Range) Tracking Function Yes Analysis tool 10 movable spots, auto hot/cold, 10 area boxes, 5 line 4.2°C or 2% of readings Environment specification IPS4 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery		
Video output interface Micro HDMI Yes Laser Distance Yes, Displayed on thermal image GPS Function Yes Alarm Mode Temperature measurement Measurement range Optional Temperature Range Optional Temperature Range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) -20°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) Tracking Function Yes Analysis tool Analysis tool Accuracy Environment specification Operating temperature range -20°C~+55°C Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Thermal Image Format	.jpg/.png (Full Temperature Data)
Wifi Laser Distance Yes, Displayed on thermal image GPS Function Yes Alarm Mode Yes Temperature measurement Measurement range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Optional Temperature Range +300°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) 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 Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Thermal Video Format	Real—Time Radiometric recording (.irv)/.H264
Laser Distance GPS Function Yes Alarm Mode Temperature measurement Measurement range Optional Temperature Range Tracking Function Analysis tool Analysis tool Accuracy Environment specification Operating temperature range Physical characteristic Weight Dimension Power system Battery Type Yes Yes 12° C or 12% on thermal image Yes 12° C or 150° C (Low Temperature Range) 0° C~ +410° C (Medium Temperature Range) 12° C (Low Temperature Range) 0° C~ +410° C (Medium Temperature Range) 12° C (Low Temperature Range) 0° C~ +410° C (Medium Temperature Range) 10° C~ +650° C/ +300° C~ +2000° C/ Other Ranges (High Temperature Range) 10° Medium Temperature Range (High Temperature Range) 10° C~ +650° C/ +300° C~ +2000° C/ Other Ranges (High Temperature Range) 10° Medium Temperature Range (High Temperature Range) 10° Medium Temperature Range (High Temperature Range) 10° C~ +650° C/ +300° C~ +2000° C/ Other Ranges (High Temperature Range) 10° Medium Temperature Range (High Temperature Range) 10° Medium Temperature Range (High Temperature Range) 10° C~ +410° C (Medium Te	Video output interface	Micro HDMI
GPS Function Alarm Mode Yes Temperature measurement Measurement range Optional Temperature Range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Optional Temperature Range +300°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) 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 Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Wifi	Yes
Alarm Mode Temperature measurement Measurement range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Optional Temperature Range +300°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) 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 Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Laser Distance	Yes, Displayed on thermal image
Temperature measurement Measurement range -20°C~+150°C (Low Temperature Range) 0°C~+410°C (Medium Temperature Range) Optional Temperature Range +300°C~+650°C/+300°C~+2000°C/Other Ranges (High Temperature Range) 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 Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type Removable Rechargeable DC12V Lithium Battery	GPS Function	Yes
Measurement range -20°C∼+150°C (Low Temperature Range) 0°C∼+410°C (Medium Temperature Range) Optional Temperature Range +300°C∼+650°C/+300°C∼+2000°C/Other Ranges (High Temperature Range) 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 Operating temperature range -20°C∼+55°C Encapsulation IP54 Physical characteristic Weight Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Removable Rechargeable DC12V Lithium Battery	Alarm Mode	Yes
Temperature Range) Optional Temperature Range	Temperature measurement	
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 Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Measurement range	· · · · · · · · · · · · · · · · · · ·
Analysis tool Accuracy ±2°C or 2% of readings Environment specification Operating temperature range Encapsulation Physical characteristic Weight 1.5 KG (Includes Battery) Dimension Power system Battery Type 10 movable spots, auto hot/cold, 10 area boxes, 5 line ±2°C or 2% of readings -20°C~+55°C Encapsulation IP54 Physical characteristic 1.5 KG (Includes Battery) Power system Removable Rechargeable DC12V Lithium Battery	Optional Temperature Range	+300°C~+650°C/+300°C~+2000°C/Other Ranges (High
Accuracy ±2°C or 2% of readings Environment specification Operating temperature range -20°C~+55°C Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Tracking Function	Yes
Environment specification Operating temperature range -20°C~+55°C Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Analysis tool	10 movable spots, auto hot/cold, 10 area boxes, 5 line
Operating temperature range -20°C~+55°C Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Accuracy	\pm 2°C or 2% of readings
Encapsulation IP54 Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Environment specification	
Physical characteristic Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Removable Rechargeable DC12V Lithium Battery	Operating temperature range	-20°C~+55°C
Weight 1.5 KG (Includes Battery) Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Encapsulation	IP54
Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery		
Dimension 192x173x116 mm Power system Battery Type Removable Rechargeable DC12V Lithium Battery	Weight	1.5 KG (Includes Battery)
Power system Battery Type Removable Rechargeable DC12V Lithium Battery		
Battery Type Removable Rechargeable DC12V Lithium Battery		
		Removable Rechargeable DC12V Lithium Battery
L CHALETTE BLOWL	Charging Mode	Two Socket or 12V Car Charger

Please be aware specifications can vary from time to time