

Industrial Thermal Imaging 5G Smart Device

PX1



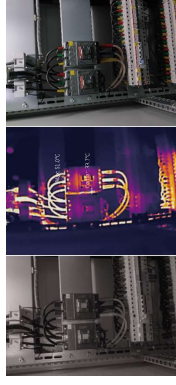
PX1

Infraray PX1 5G Handheld Thermal Imaging Smart Device is a new product combining smartphone and thermal imaging. It is with a built-in self-developed 12um high-performance 256X192 uncooled infrared detector, dual night vision systems, and a 48-megapixel main camera which ensure no blind spots during a routine inspection. In addition to IP68/IP69K and MIL-STD-810H standard, it is also equipped with a 5500mAh ultra-powerful battery. Thus, engineers can use it for long-time outdoor routine inspections in harsh environments.



1 Three-spectrum sensing, for imaging in various scenarios

- Three-spectrum system: PX1 features a three-spectrum system integrating 48-megapixel visible light imaging, 20-megapixel low light night vision, and 256x192 thermal imaging. It can work effectively for photo taking and measurement regardless of the light conditions. Therefore, engineers can use it for routine inspections at any time, without omission of any blind spot.



2 Professional image and temperature measurement algorithms, for high clarity and accuracy

- With minimum distinguishable difference of 0.04°C, temperature measurement accuracy of $\pm 2^\circ\text{C}$, and frame rate up to 25Hz, PX1 provides more detailed images and more accurate temperature data during routine inspections. Its wide-range temperature measurement from -20°C to $+550^\circ\text{C}$ meets the requirements of targets in different industries.



MATRIX III

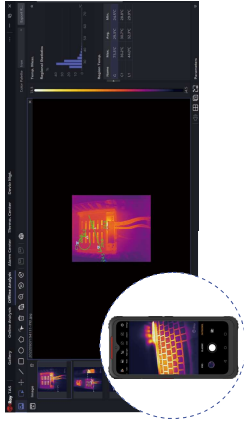


3 5G smart platform + professional SDK, for continuously enriching app ecology

- **5G smart platform:**
PX1 supports 5G to upload the captured images and videos captured anytime and anywhere. It achieves high-speed and delay-free interconnection, thus helping in the quick location of equipment defects.
- **Professional SDK:**
Professional SDK is provided for industry customers to develop their own platforms. Apps of large manufacturing enterprises, such as online vibration/centering/power quality (PQ) apps, can be developed on Android smart platforms.

Three-spectrum Sensing and 5G Interconnection and All Under Control

Built-in professional App for temperature measurement and analysis, taking photo to analyze quickly and accurately



- The App supports drawing by temperature measurement tools and tracks the highest and lowest temperature. Moreover, it supports the whole-frame temperature measurement and displays the highest, lowest, center and the average temperature. Four image modes and nine palettes suit the habits of different users.
- The App supports image or video taking. Tap for test reports to improve work efficiency. For images taken by the App, Infray temperature measurement analysis software - TAS can carry out offline analysis and fault judgment.

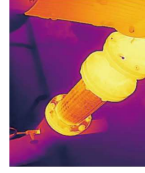
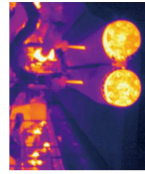
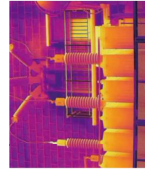
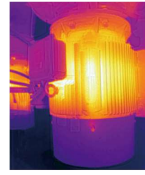


Solid and Durable, for free and safety

- Complying with the MIL-STD-810H standard, the solid and durable PX1 boasts the IP68/IP69K performance (waterproof and dustproof) and 1.5m-drop protection.
- Its 6.53" super-large waterdrop screen displays more information and gives a more comfortable experience. Wireless charging makes it more convenient to use.



Application Fields



Outdoor adventure

Equipment maintenance

Electric routine inspection

Industrial manufacturing

HVAC

Main Parameters

Model	Industrial Thermal Imaging 5G Smart Device PX1	
System and Frequency Band	2G/3G/4G	Frequency Band CA LTE Cat/Max Speed Frequency Band NSA SA MIMO Dual Cards Active/Standby Card Switching WCDMA WB VoLTE VoNR
Appearance Design	5G	Dimensions Total Weight Custom Button
Operating System		Voice Standard Supported Supported Supported Supported Supported
GPU		OS Version Android 11
Slot		Platform Name Qualcomm Snapdragon eighth-core processor Slot Quantity Choose 2 of 3 SIM Card Hot Plugging Supported
Storage		Capacity Expansion Memory (TF Card) Supported, 512G
Display		Screen Resolution Feature
Rear Camera		Pixel Visible Light Main Camera CMOS Flashlight Infrared Fill-in Light
Front Camera		Pixel Infrared Pixel Pixel Pitch
Infrared Thermal Imaging		Thermal Sensitivity/NETD Measurement Range FOV Optical Sensor Distance Sensor Geomagnetic Sensor Fingerprint Sensor Gyroscope Interface Type
Sensor		OTG Supported Supported Supported Supported Supported Supported
USB		OTG Supported
Earphone Interface		Earphone Interface Type 3.5mm Interface
Audio		MIC Speaker
WLAN		WLAN Protocol 802.11a/12/b/n/ac/ax-ready
Satellite Positioning		Satellite Positioning Dual Frequency Positioning GPS, GLONASS, BeiDou
Other		Bluetooth NFC Radio Durability Test IP grade Typical Value Maximum Charging Power Wireless Charging
Functions		Supported Supported Supported Supported Supported Supported
Reliability		Supported Supported Supported Supported Supported Supported
Battery		Maximum Charging Power Charger USB Cable
Accessories		Yes