

# P Series

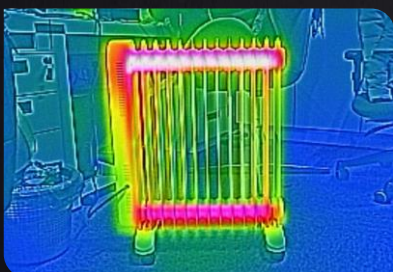
## Pocket-sized Thermal Camera

Compact Size, Professional Grade



### Introduction

P120V Pocket-sized Thermal Camera designed for electrical equipment maintenance and building inspection, which can fast detect the potential problems, report repair data and share images by Wi-Fi. It is a truly handy thermal camera that fits in your pockets for fast and accurate thermal inspections anytime. P120V featured with 3.5-inch LCD touchscreen for simple operation, and support picture-in-picture, smooth zoom, max and min temperature alarm, Cloud Service and more.



### Features and Benefits

- -20°C-400°C wide measurement range  
Auto switching between -20°C-150°C and 100°C-400°C
- Reasonable Layout and Good Ergonomic Design  
No interfere between lens area and grip area
- 3.5" Touchscreen Display  
High-brightness LCD, 320 x 240 pixels
- Android Platform, Intelligent Operation  
User-friendly design based on Android system, which is as simple as using a smartphone.
- Wi-Fi connectivity , support Cloud Service  
Wi-Fi connectivity enabled for remote control and instant sharing.  
And support Cloud Album, you can back up the images to the Cloud in real-time.

### Application

- Building Diagnostics
- Facilities maintenance
- HVAC Inspection
- Electrical Application

# Specifications

| Model                            | P120V   |
|----------------------------------|---|
| <b>Imaging and optics</b>        |   |
| Detector type                    | VOx   |
| Infrared resolution              | 120 × 90@17μm   |
| Wavelength range                 | 7.5 to 14μm   |
| Focal length                     | 2.28 mm   |
| Field of view                    | 50° × 38°   |
| Minimum object distance          | 0.5 m   |
| D:S                              | 130:1   |
| NETD                             | ≤60 mK  |
| Infrared frame rate              | 15 Hz / 9 Hz  |
| Focusing mode                    | Focus-free  |
| Digital zoom                     | 1.1x to 8x  |
| <b>Measurement and analysis</b>  |   |
| Measurement range                | Support auto-switching: -20°C to 150°C, 100°C to 400°C  |
| Measurement accuracy             | ±2°C or ±2%, whichever is greater   |
| Analyzed target                  | Spot × 1, Area × 1  |
| Tracking / Alarm                 | Full screen maximum/minimum temperature tracking; The maximum or minimum temperature tracking of analyzed target; full screen temperature threshold alarm (image) |
| Temperature measuring parameters | Emissivity, reflected temperature, target distance  |
| <b>Image display</b>             |   |
| Display screen                   | 3.5" LCD  |
| Digital camera                   | 0.3 MP  |
| Image mode                       | IR, VIS, MIF and PIP  |
| Image adjustment                 | Automatic, semi-automatic, manual   |
| Color palettes                   | White Hot, Black Hot, Iron Red, Hot Iron, Medical, Arctic   |
| <b>Storage and transmission</b>  |   |
| Storage media                    | Local storage (4 GB)  |
| Image storage format             | JPG with temp info  |
| External interface               | TYPE-C, UNC ¼"-20 (tripod mounting)   |
| WIFI                             | Yes, it can be connected to the mobile terminal for image transmission  |
| <b>Power system</b>              |   |
| Battery type                     | Rechargeable lithium-ion battery, non-removable   |
| Battery working time             | ≥2 hours  |
| Power management                 | Timed shutdown and sleep mode   |
| Charging mode                    | TYPE-C charging; PC/portable charger; Capable of charging while using   |
| Charging time                    | 90% of full charge in 1.5 hours   |
| <b>Environmental parameters</b>  |   |
| Working temperature              | -10°C to 50°C   |
| Storage temperature              | -40°C to 70°C   |
| IP rating                        | IP54  |
| Drop                             | 1m drop test  |
| Certification                    | CE, FCC, ROHS, KCC, IP54, Damp heat test, Vibration test, Shock test, Impact test, UN38.3, MSDS   |
| <b>Physical parameters</b>       |   |
| Weight                           | ≤240 g  |
| Size (L × W × H)                 | 133.1mm×87.4mm×24.1mm   |
| Software kit                     | ThermoTools   |
| Standard                         | A device, Wrist strap, Carrying bag, Quick Start Guide, Power adapter, Adapter plug, Type-C USB cable, Data download card, Certificate of approval                |
| Options                          | Tripod  |

