



# Handheld Thermal Camera T300/600

InfiRay Kaiyang T Series Handheld Thermal Camera is embedded with the self-developed VOx infrared detector with high performance, resolution and sensitivity. It is the first infrared thermal camera with auto-focusing function and replaceable lens. The powerful hardware configuration shines in application fields such as production equipment inspection, manufacturing process inspection, and metallurgy and chemical industry. More breakthroughs have been achieved in terms of software functions, including smart shooting (inspection task package), smart database management (picture retrieval, comparison and analysis), and smart diagnosis, providing comprehensive and efficient inspection solutions for users in the power industry.

Efficient Inspection Solution



## 01 Comprehensive Leading Thermal Imaging Performance

Make Inspection Efficient, Clear, and Accurate

■ 384×288/640×512 High Infrared Resolution, 35mK High Thermal Sensitivity

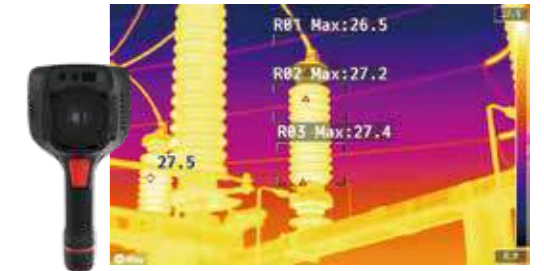
Kaiyang T Series offers two solutions, T300 and T600. T300 is cost-effective for daily and some fine inspections, while T600 with higher resolution can fully meet the most demanding professional requirements for fine inspection.

Both T300 and T600 have ultra-high thermal sensitivity of 35mK, highlighting more temperature details and finding out the potential risks that are difficult to find by low-sensitivity equipment during inspection.



■ Various Lenses from Wide-angle to Long-focus is Optional, Suitable for Multiple Scenarios

Kaiyang T Series has replaceable lenses. Various lens clusters from wide angle to long focus are provided for engineers to cope with all kinds of thermal imaging applications. They can conduct fast checking with wide-angle lens around near area and can deal with small target inspection in distance.



■ Fully Automatic Infrared Focusing System, Fast for Improving Efficiency

The newly introduced automatic infrared focusing system realizes quick and accurate focusing on the target. It enables engineers to focus and take pictures quickly with only one hand in a complex environment, thereby improving work efficiency and safety.



■ Optional Extended Temperature Measurement Range up to 2,000°C

It can fully meet the inspection requirements of various high-temperature targets and cover most industrial application scenarios.

## 02 Combining Multiple Advantages Together

Classic Product Worth Every Penny

### ■ 5-inch Touch Screen, Intuitive and Easy-to-operate

Larger display brings clearer view and more accurate operation. It is convenient to use point/line/area temperature measuring tools on site for efficient and clear observation and analysis of targets.



### ■ 5,000,000-pixel Visible Light Camera, Recording Inspection Results with Dual-spectrum

Kaiyang T Series supports 4 image modes, including infrared, PIP (picture-in-picture), dual-spectrum fusion, and visible light. They are integrated to efficiently find targets and record visible light at the same time for detailed analysis of site conditions.

### ■ More Extended Functions



Kaiyang T Series has flexible and diverse file and video transmission modes, including 4G, WiFi, HDMI and USB. Multiple functions are available, such as GPS, Bluetooth, laser rangefinding, audible and visual alarm, so as to improve the speed and efficiency of inspection and maintenance.



## Application Fields



Transmission Inspection    Distribution Inspection    Distribution patrol inspection    Metallurgy and Petrochemical Industry    Production and Manufacture

## Main Specifications

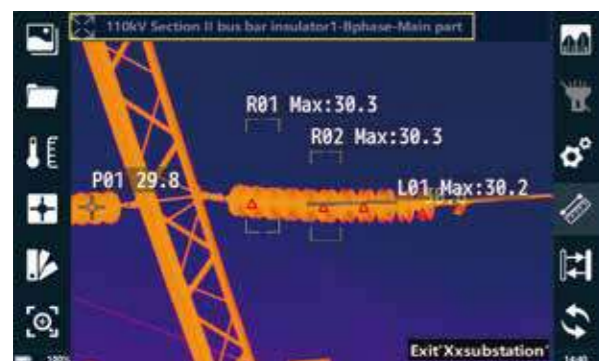
Model	T600	T300
Detector Resolution	640×512	384×288
NETD	35mK	35mK
Lens	Standard 24°, optional 48°, 12°, 6°, etc., exchangeable	
Measurement Range	Standard: -20°C~+150°C (low temperature range), 0°C~410°C (medium temperature range), 300°C~650°C (high temperature range); Optional: 300°C~2,000°C	
Measurement Accuracy	±2°C or ±2% of reading	
Digital Camera	Built-in 5-megapixel digital camera with LED indicator	
Laser Rangefinder	Supported	
Lens Focusing Mode	Manual, automatic, electric	
Palette	10 palettes	
Setting of Temperature Measurement in Point, Line and Area	Up to 10 points, 10 boxes, and 5 lines, including maximum/minimum/average	
Highest/Lowest Temperature of Full Display	Supported. Capable of automatically capturing the highest/lowest temperature of full display	
Image Adjustment	Automatic/manual; linear or columnar; capable of locking maximum, minimum or temperature range	
Digital Zoom	×1, ×2, ×4, ×8	
Image Mode	Infrared, visible light, PIP (picture-in-picture), fusion	
Isotherms	Supported	
Temperature Difference	Automatic calculate temperature difference for similar analysis	
Text Notes	Select text notes from the preset list and edit them in the thermal camera	
Smart Shooting	Support inspection task package and automatic image naming	
Voice Note	Support voice note, stored with the image	
QR Code Scanning	Support scanning and reading of QR code string information	
Display	5-inch touch display	
WiFi	Remote real-time image transmission to mobile phone/computer via WiFi	
4G	Remote real-time image transmission to mobile phone/computer via 4G	
GPS	Optional	
Bluetooth	Hear audio information of images with Bluetooth headset	
Alarm Mode	Automatic audible and visual alarm of the set/excessive/inadequate temperature value	
Storage Mode	32G SD card	
Picture Format	jpg (including full temperature data)/png (including full temperature data)/standard format of State Grid	
Infrared Video Format	H.264 video or full-radiation infrared video stored to SD card	
Video Output Interface	Micro HDMI interface	
Battery Type	Removable and rechargeable lithium-ion battery	
Battery Life	About 3 hours under 25°C	
Power Management	Support sleep mode	
Charge Mode	Desktop charger	
Ingress Protection	IP54	
Weight	≤1.3kg (including battery)	
Dimensions	260×135×136mm	
Operating Temperature	-20°C~+55°C	
Storage Temperature	-40°C~+70°C	

## 03 Professional and Diverse Software Functions

Smart Equipment to Improve Efficiency

### ■ Smart Shooting - Power Inspection Task Package

The chart of the inspection task can be imported in advance to automatically generate the inspection task package. It can save the working effort by saving the photos automatically according to the naming rules in the inspection task package.



### ■ Database Management - Image Retrieval, Comparison, and Analysis

Kaiyang T Series supports intelligent database management to enable the functions of equipment image retrieval and equipment status comparison and analysis. The data are traceable as the basis for equipment status prediction reducing misjudgment.

### ■ Generation Test Reports Automatically

Click for professional report. The data processing cost and learning cost for users are greatly reduced.

