APPLICATION FIELDS
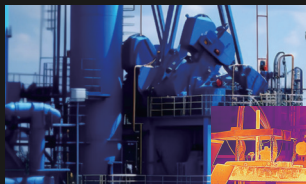
Electric Routine Inspection

Chemical O&M

Electronic and Electrical R&D

High Temperature Material Monitoring

SPECIFICATIONS

Function	Model	RT400	RT630
Thermal Imaging	Detector Type	12μm uncooled infrared detector	
	Infrared Resolution	480×360	640×512
	Super Resolution	960×720	1280×1024
	Spectral Band	7.5-14μm	
	Thermal Sensitivity (NETD)	< 35mK (25℃,F1.0)	
	Frame Rate	25Hz	
	FOV	25°×20°;7°×5.6°;14°×11.2° ;45°×36°	
	Spatial Resolution (IFOV)	Standard: 0.92mrad, optional: 0.27mrad;0.52mrad;1.71mrad	Standard: 0.68mrad, optional: 0.2mrad;0.38mrad;1.26mrad
	Focusing Mode	Manual, one-button center focus, auto center focus, single-touch automatic focus laser-assisted focus， electric micro focus	
	Minimum Focus Distance	Standard: 0.4m; optional: 4m;3m;0.2m	
	Measurement Range	-20℃~+150℃, 100℃~650℃; Optional:400℃~+1500℃	
	Measurement Accuracy	±2℃ or ±2% of readings, whichever is greater	
Image Display	Display	5-inch OLED touch screen, resolution 1280×720	
	Visible Light Camera	13MP; Digital Zoom: 1× ~ 10×	
	Palettes	19 options	
	Image Mode	Infrared, visible light, PIP, dual-spectrum fusion	
Measurement and Analysis	Analysis Functions@Device	Up to 15 respectively points, areas and lines;and up to 5 preset modes	Up to 20 respectively points, areas and lines;and up to 5 preset modes
	Laser Rangefinding	Supported, including Area Measurement	
	Temperature Difference& Trend Analysis	Supports temperature differences& trend recording and analysis.	
	Analysis Report	PDF format. Support editing and template importing on the PC client	
	Supporting Software	PC (Infrared Analysis Software) & Mobile Device (iOS/Android APP)	
Image Storage	Storage Medium	Standard 64GB MicroSD, up to 2TB.	
Video Functions	Radiation IR Video Recording	Compressed full radiation video recording (.irv)	
	Radiation& Non-radiation IR Video Stream Transmission	Radiation:TYPE-C/WLAN PC connection for real-time IR video streams transmission; Non-radiation: RTSP H.264	
System Functions	Intelligent Routine Inspection	Supported	
	Communication Protocol	Wi-Fi, Bluetooth, USB,DP, Type-C to HDMI	
	Voice Control	Voice assistant	
Others	Battery Life	Continuous operating time ≥6 hours (varies by conditions)	
	Operating&Storage Temperature	Operating:-20℃~+55℃, Storage: -40℃~+70℃	
	IP Grade	IP54	
	Shock and Vibration	Shock: 25g (IEC60068-2-27); vibration: 2.5g (IEC60068-2-6)	
	Weight and Dimensions	About 1.3kg，144×129×307mm	
	Authentication	CE/RoHS/CMA, etc.	
	Packing List	Thermal camera×1, standard lens, lithium-ion battery×2, charging stand, charger (with plug for use in multiple countries), charging cable, Bluetooth headset, SD card 64G, Type-C cable, lens hood, mold drawing, data download card, calibration certificate, certificate of qualification, hand strap (with buckle), safety box, lens cap (with screws).	

‖ Raythink Technology Co., Ltd.

Raythink is a subsidiary of Raytron Technology Co., Ltd.(stock code: 688002), which specializes in the innovation, development, manufacturing, and marketing of intelligent photoelectric sensing technology. We are deeply engaged in the fields of infrared night vision imaging, thermography, gas imaging and laser sensing, providing professional infrared and laser sensing modules, devices, software and smart industry solutions to our global customers.

ABOUT US

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Raythink

RT400/630

EXPERT THERMAL CAMERA

PREMIUM 35mK DETECTOR FOR EXPERT THERMAL INSIGHTS & ANALYSIS

640x512/480x360 Resolution

35mK

Multi-Lens Options

Temperature Trend Analysis

5″ OLED Touch Screen

15/20 Points/Lines/Zones

Android

RT400/630 Series

The new RT400/630 series, equipped with a 12μm detector offering resolutions of 480x360/640x512 and the NETD as low as 35mK, captures finer hotspots and delivers sharper, clearer thermal images.With features like the Android operating system, trend analysis, area measurement, and electronic image stabilization, this tool is a versatile, expert-level solution suitable for a wide range of scenarios.

▌PROFESSIONAL THERMAL IMAGE

High-Sensitivity Detector

- Advanced Detector: Raythink™'s 12μm Infrared.
- High IR Resolution: 640×512 or 480×360, with super resolution support.
- Superior Thermal Sensitivity: NETD as low as 35mK.

Multi-lens options for fast, precise focusing

- Multiple Lens Options: Standard 25°, 7° Telephoto, 14° Telephoto, and 45° Wide-Angle.
- Lens Flexibility: Easily switch lenses to fit various scenarios.

▌ENHANCED FUNCTIONALITY

- Up to 20 Points/Lines/Areas & 5 Preset Modes
- 5-inch OLED Touch Screen& Stunning 1280x720 resolution
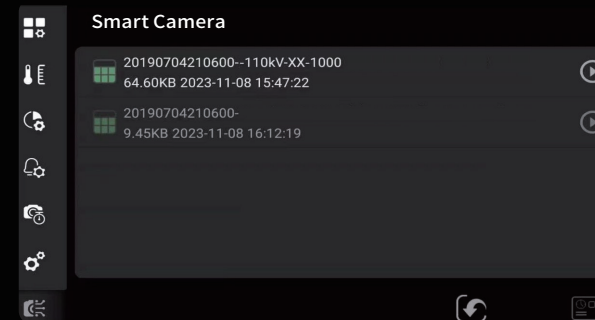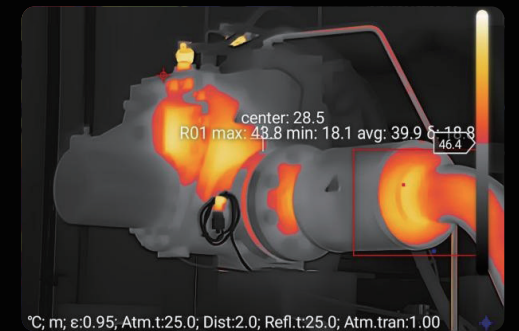- Enhanced color and level display for better visibility, Type-C Direct Charging

▌POWERFUL INTELLIGENT ANALYSIS, EFFICIENT TEMPERATURE MEASUREMENT

Empowered By Android Smart System
Provide system-level assurance for the expansion and customization of intelligent functions.

Support Custom Isotherms
Provide real-time temperature details analysis.

center: 28.5
R01 max: 43.8 min: 18.1 avg: 39.9 6 -10.8
46.4

℃; m; ε:0.95; Atm.t:25.0; Dist:2.0; Refl.t:25.0; Atm.tran:1.00

Smart Camera
20190704210600--110kV-XX-1000
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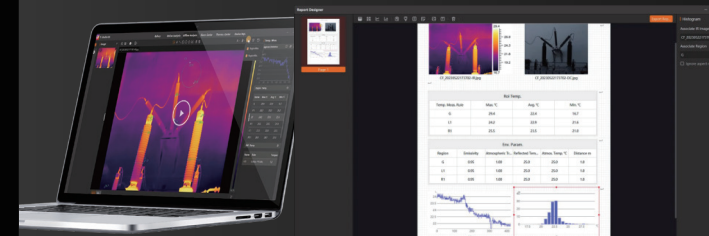9.45KB 2023-11-08 16:12:19

Intelligent Routine Inspection
Enabling general task recording with automatic images naming.

Intelligent Image Stabilization
Support smart image stabilization for stabler temp images.

▌PROFESSIONAL SOFTWARE PLATFORM

TI Studio PC Client

- Multiple adaptable products with strong analytical capabilities.
- Diversified analysis and multi-dimensional monitoring.
- Three-level alarm configration and multi-dimentional data log.

TI Studio Mobile APP
- Preview & Contral
- Snapshat and Recording
- Themal Image Secondary Analysis
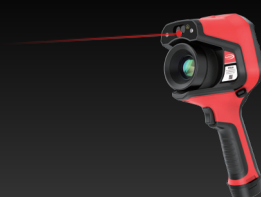- File Transfer & Management
- Multi-language Support

▌MORE PERFORMANCE UPGRADES

-20℃~1500℃*
wider temperature range

-20℃   +1500℃

*Measurement Range:-20℃~+150℃, 100℃~650℃; Optional:400℃~+1500℃

Laser Rangefinder
Accurate laser range and area measurement.

YEAR 2 FULL PRODUCT WARRANTY*

2-YEAR
WARRANTY for Full Product

YEAR 10 DETECTOR WARRANTY*

10-YEAR
WARRANTY for Detector