



RG630

OGI Handheld Camera

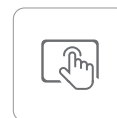
The new-generation RG630 OGI handheld camera is equipped with a customized band-pass filter and an uncooled VOx infrared detector with high resolution and high sensitivity. Powered by infrared gas thermal imaging technology and AI algorithms, the camera enables the non-contact and visual leakage alarm for dozens of gases including methane (CH_4), freon, ammonia (NH_3), and sulfur hexafluoride (SF_6), and meets daily temperature measurement needs. This device is an ideal choice for gas safety, emission management and equipment maintenance in industries such as petroleum, natural gas, chemical engineering, electric power, environmental protection, and emergency response.



Product Highlights

HD Infrared Resolution and Accurate Detection

- 640×512 high resolution with 15mK high sensitivity, accurately capturing tiny gas leaks
- 5-inch OLED touch screen with a wider field of view
- Customized filter detector to eliminate stray light interference



Intelligent Gas Detection

- Retrieving gas concentration with real-time monitoring of gas concentration
- Self-developed gas cloud coloring algorithms for visualization of gas leakage
- Ultra-low threshold for accurate detection of trace gas leaks
- AI agent Raya supporting full-process parameter setting through voice



Industrial-Grade Environmental Adaptability

- Intrinsically safe explosion-proof authentication, meeting the authentication requirements of specific industries
- 5 hours of long-lasting battery life for continuous and more efficient operation
- GPS and Beidou positioning, and automatically recording routine inspection tracks



Specifications

Model	RG630C	RG630F
Thermal Imaging Characteristics		
Detector Resolution	640×512	
Lens Configuration	19 mm non-detachable manual lens	
FOV	22.9°×18.4°	
Focusing Mode	Manual	
IFOV (Spatial Resolution)	0.68 mrad	
Minimum Imaging Distance	0.3 m (imaging only)	
Common Characteristics		
Detector Type	Uncooled infrared detector	
Thermal Sensitivity	15mK	
Wavelength Range	7~8.5μm	10.3~10.7μm
Frame Rate	25Hz	
Flashlight	LED filling	
Image Display and Mode		
Display Size	5-inch touch display, 1280×720 resolution	
Daylight Camera	4224×3136 (13 megapixel digital camera)	
Palette	20 palettes including iron red, gray, inverse iron red, inverse gray	
Image Mode	Thermal imaging, PIP, thermal fusion, visible light	
Temperature Width Stretch	Precise temperature width, Max/Min, Level/Span	
Image Storage		
Storage Medium	SD card, standard 64 GB, maximum expansion 2 TB	
Image File Format	jpg	
Non-radiative Infrared or Visible Light Video	Irv. video recording (infrared video only), standard MP4 video recording	
Measurement and Analysis		
Measurement Accuracy	±2°C or ±2% of the reading	
Gas Detection Function	AI intelligent gas detection, gas plume coloring, retrieving concentration, automatic alarm, gas image enhancement, image multi-sensitivity switch	
Gases Detectable	Methane, sulfur dioxide, methanol, ethanol, Freon (R-134a, R-152a), and so on	Sulfur hexafluoride, ammonia, ethylene, propylene, and so on
Intelligent Gas Detection Alarm	Support	
Gas Concentration Measurement	Support	
Positioning	Images+geolocation data. GPS, GLONASS, supported	
System Functions		
Laser Pointer	Support	
Rangefinding	Support	
Zooming In	1–10x continuous zoom	
Communication Mode	Wi-Fi, Bluetooth, Type-C	
Voice Control	Voice assistant with quick command recognition	
Others		
Microphone/Speaker	Support	
Battery	3.6 V, 10000 mAh lithium-ion battery, not field-replaceable, support fast charging	
Charging Mode	Direct charging, desktop charging	
Operating Time	Continuous operating time ≥ 5 hours (depending on the actual environment and service conditions)	
Hand Strap	Support	
Interface	TYPE-C USB 3.0, SD card, SIM card, tripod	
Impact and Vibration Level	2G(IEC60068-2-6)、25G(IEC60068-2-29)	

Application Scenarios



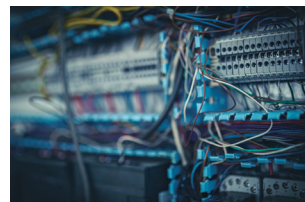
Petroleum and Petrochemicals



Ecological and Environmental Protection



Emergency Management



Electric Power

Raythink Technology Co., Ltd.

Company Address: No.5 Wanshoushan Road, Fulaishan Street, Yantai Area of China (Shandong) Pilot Free Trade Zone Postal Code: 264000

Official Website: <http://www.raythink-tech.com>

Service Email: sales@raythink-tech.com

*The information is for illustrative purposes only. The pictures and technical specifications are subject to change without notice. Sample No.: G2025-RG630-2P002