GD88
Uncooled Optical Gas Imaging

- Onboard image enhancement ensures crisp and vibrant thermal images
- Capable of both gas detection and radiometric temperature measurement for thermal inspections
- Suitable for a wide range of electric power utilities, oil and natural gas operations, chemical, manufacturing facilities, food and agriculture industry



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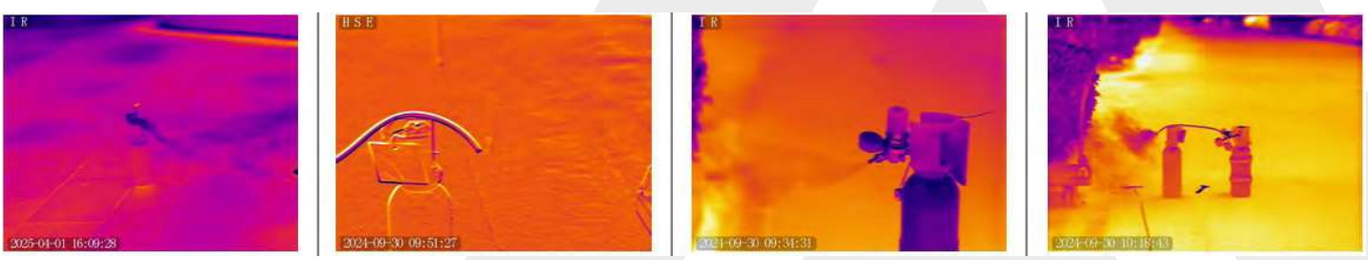
OPTICAL GAS IMAGING

SPECIFICATION	
Model	GD88
Imaging & Optical	
Detector Type	Uncooled Microbolometer
Resolution	640×512@17μm
Super Resolution	Up to 1280X1024 pixels
Spectral Range	7.0 μm ~ 14 μm
Image Frequency	50Hz
NETD	≤23mk@30°C
FOV	20.8° × 16.6°
Minimum Focus Distance	30cm
IFOV	0.60mrad
Digital Zoom	1x-16x continuous zoom
Focus	Manual
Detectable Gases	Methane, Freon, Sf6, Ammonia, Propene(HFO-1234yf), Ethylene, Nitric Oxide, Sulfur Dioxide, Phenol, etc.
ATEX Proof	Ex ic nc IIC T4 Gc
Display	4.3 inch Touch display screen, resolution 800*480
Digital Camera	5 Megapixel with built-in LED lights
Image Mode	Infrared mode, High sensitivity mode, Image enhancement mode(MFI)
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic



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Uncooled Optical Gas Imaging

SPECIFICATION	
Measurement & Analysis	
Temperature Measurement Range	-20°C~650°C
Temperature Accuracy	Temperature measurement range from 0'C to 100°C, is ±1°C; Other temperature measurement ranges is ± 2°C or ± 2%, take the maximum value
Temperature Measurement Mode	Real-time 20 movable points, lines, area temperature measurement (maximum temperature, lowest temperature capture, average temperature measurement), full-screen maximum temperature and minimum temperature capture, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)
Emissivity	Custom input and material table selection, range 0.01-1.0
Measurement Corrections	Emission rate, ambient temperature, reflection temperature, relative humidity, temperature measurement distance, and infrared window compensation
Rangefinder/Laser pointer	Distance shown on Screen
Image Storage and Transfer	
Image Storage	TF card, standard 64GB
Image Storage Mode	Infrared images and Digital camera images are saved simultaneously
Thermal Image Format	JPEG format, 16bit Radiometric IR digital image. Radiation infrared video recording and non-radiation infrared video recording in H.264 format
Digital Camera Image Format	JPEG format, H.264 format for Digital camera video recording
Voice	Supports 180 seconds of voice annotation, stored together with the image
Text Annotation	Preset text comments with editable text
Programmable button	1 Programmable buttons
Transfer Interfaces	USB Type C, TF card, Bluetooth, and WiFi, HDMI Video out put
Software	IR Analyser for PC and Andriod-full analysis and reporting software, live stream on PC/Phone
Power supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (7.2V 3400mAh 24.48Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 4 hours Continuous working Time (25°C ambient temperature)
Battery Charger	12V Charging dock for 2 battery charging, 2.5 hours charging time
Battery Management	Automatic shut-down
Environmental	
Working Temperature	-20°C~50°C
Storage Temperature	-40°C~70°C
Vibration	2G/IEC 60068-2-6:1995
Shock	25G/IEC 60068-2-27:2008
Enclosure Rating	IP54
Physical Specification	
Weight	≤1.1kg(With lens and battery)
Dimensions	308×124×197mm
Package Includes	IR Camera, IR filter, rechargeable lithium battery * 2, Charging Dock, Power adapter, USB cable, TF card, Card reader, Packing list, Calibration certificate, User manual, 2 Years warranty card, Carry case

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