

GD10 VOCs Optical Gas Imaging

- 320x256 Resolution Cooled IR detector
- ATEX Certified for use in harsh environments
- Intelligent innovative gas quantification analytics
- Suitable for detecting gas emissions in complex systems including refineries, petrochemical facilities, natural gas well pads, compression stations, and power generation plants.



OPTICAL GAS IMAGING

SPECIFICATION

Model	GD10
Imaging & Optical	
Detector Type	FPA, Cooled InSb
Resolution	320×256@30μm
Spectral Range	3.2 μm~3.5 μm
Start Up Time	≤ 6 minutes
Gas Detection Sensitivity	0.001ml/s
Image Frequency	50Hz
NETD	≤15mk@30°C
FOV	18° × 14°
Minimum Focus Distance	30cm
Optional Lens	15.19°x 12.18 / 9.37°x 7.32°
IFOV	1 mrad
Digital Zoom	1x-8x continuous zoom
Focus	Manual/Electric/Automatic
ATEX Proof	Ex ic nc op II CT4 Gc
Display	5 inch Touch display screen, resolution 800*480
Digital Camera	5 Megapixel with built-in LED lights
View Finder	Built-in 0.5 inch color OLED display(800*600)
Image Mode	Infrared mode, High sensitivity mode, Visible camera
Palette	12 Palettes (Iron, White hot, Black hot, Rainbow, Arctic, Lava, etc.)
Image Adjustment	Manual/Automatic
Laser Pointer	Yes



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OPTICAL GAS IMAGING

SPECIFICATION	
Measurement & Analysis	
Temperature Measurement Range	-20°C~350°C
Temperature Accuracy	± 2°C or ± 2%, take the maximum value
Detectable Gases	Methane, Ethane, Propane, Butane, Ethylene, Propylene, Benzene, Ethanol, Ethylbenzene, Heptane, Hexane, Isoprene, Methanol, MEK, MIBK, Octane, Pentane, 1-Pentene, Toluene, Xylene
Temperature Measurement Mode	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
Image Storage and Transfer	
Image Storage	TF card, standard 64GB
IR Image Format	JPEG Format with infrared raw measurement data images
Image Browsing	Thumbnail View
Video Recording	Radiation infrared video recording and non-radiation infrared video recording in H.264 format
Digital Camera Image Format	JPEG format
Voice	Supports 60 seconds of voice annotation, stored together with the image
Transfer Interfaces	USB Type C, TF card, WiFi, HDMI Video out put
Software	IR Analyser for PC-full analysis and reporting software
Power supply	
Battery Type	Replaceable & Rechargeable Lithium Ion (8.2V 7000mAh 58.8Wh)
DC Operation	12V DC power supply(100V to 240V, 50/60Hz)
Battery Hours	Approximately 2.5 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	≤2.8kg(With standard lens and battery)
Dimensions	349×195×170mm
Package Includes	IR Camera, 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