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Opgal EyeCGas Fly Optical Gas Imaging Camera

Designed for drone and airborne platforms

The Opgal™ EyeCGas™ Fly Optical Gas Imaging (OGI) camera can be integrated with drones and airborne platforms for detection and visualization of methane and over 400 volatile organic compounds (VOCs). The camera is available by itself or integrated into a drone system.

The camera is lightweight, making it easy to transport and deploy in the field. It enables users to detect gas leaks through unique built-in image processing algorithms, images and video recordings, as well as live streaming.

Features

- **Gas leak detection**
  Quick detection of methane, CO, CO_2 and VOC leaks
- **High sensitivity**
  Highly sensitive sensor design for detection of smaller leaks and detection of leaks at further distances
- **Wireless connectivity (optional)**
  Built-in Wi-Fi, GPS, hotspot and Bluetooth™ capabilities
- **Gas quantification**
  Built-in or remotely operated quantification via Opgal™ EyeCSite™ software and other third-party devices
- **Thermographic imaging**
  Temperature measurement capabilities and color pallets for better versatility
- **EPA 0000 a/b/c compliance**
  Analytical capabilities to help meet the requirements of US EPA 0000 a/b/c regulations
- **Seamless integration**
  Fast, easy integration with drones and gimbaled platforms
- **Compact design**
  Low-weight and compact size for integration with smaller platforms

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Opgal EyeCGas Fly OGI Camera

Specification	Description	
Technical specifications		
IR field-of-view	18.2° x 13.6°	
IR resolution	320 x 240 pixels	
Focus modes	∞ Fixed	
IFOV	1 mRad (30 µm pitch)	
Thermal sensitivity/NETD	<10 millikelvin @ 25°C	
Quantification	Offline (remote software coming soon)	
Detector and optical data		
Spectral filter	3.2–3.4 µm	
Lens	18.2°, f = 30 mm, F1.1	
Full frame rate	15 Hz	
Image presentation		
Day camera resolution	2592 x 1944	
Output resolution	640 x 480	
Image modes (remote control)	IR-image, visual image, enhanced, thermography	
Ground station SW	Change image modes record and save images and videos	
Measurement and analysis		
Temperature measurement range	-20 to +350°C	
Temperature measurement accuracy	± 1°C for temp range 0 to 100°C ± 2% of reading for temp range >+100°C, or ± 2°C for temp range <0°C	
Communication interface and data storage		
Internal storage	55 Gbyte for user	
External interfaces	USB port	USB mass storage
	12p Multi-port	Ethernet (DHCP client)
		Power supply port (12 V DC)
		Maintenance port
Video output	RTSP	
Environmental and certifications		
Ingress protection	IP55 (testing in progress)	
Operating temperature range	-20 to +40°C	
Additional information		
Weight	1.4750 kg (3.09 lbs)	
Size incl. lens (LxWxH)	194 mm x 103.5 mm x 94.5 mm	
Mounting	1/4-20 tripod mount	
Start-up time	< 12 min @ 25°C	

Learn more at **thermofisher.com/eyecgasfly**

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For current certifications, visit thermofisher.com/certifications

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