



**Electro Optical Components, Inc.**

5464 Skylane Boulevard, Suite D, Santa Rosa, CA 95403

Toll Free: 855-EOC-6300

[www.eoc-inc.com](http://www.eoc-inc.com) | [info@eoc-inc.com](mailto:info@eoc-inc.com)



## EOC-GDIC-U340 & U640

### Aerial OGI Camera for VOCs and Methane Gas Leak Detection



#### Product overview

Aerial OGI Camera for VOCs and Methane gas leak detection is designed for the leak detection of methane and other volatile organic compounds (VOCs). The whole system is composed of DJI M300RTK drone and its OGI payload for VOCs gas leak detection infrared camera.

The infrared camera uses a high-sensitive 320x256 or 640x512 medium wave cooled infrared detector. Through UAV image transmission, the dual vision image of VOCs gas leak status can be observed in real time. The system is suitable for real-time online detection of VOCs gas leak in industrial fields, such as refineries, offshore oil and gas extraction platforms, natural gas storage and transportation sites, chemical industries, biogas plants, and power stations.

#### Features :

- Visualizing VOCs gas
- Image/video from a safe distance
- Plan the inspection path
- Efficient and fast inspection
- Non-destructive non-contact inspection
- Automatic sampling at inspection points

# SPECIFICATIONS

Category	Parameter	
System Configuration	One DJI M300RTK and one aerial OGI camera	
Detector Type	HOT T2SL	
Detector Resolution	320x256	640x512
Detector pitch	30 μm	15 μm
Spectral response	3.2~3.5 μm	
NETD	≤ 15mk	≤ 20mk
Focal Length	23mm	35mm
FOV	24° x 19°	15° x 12°
Digital Image Enhancement	Equipped with automatic image filtering and digital detail enhancement functions	
Image Adjustment	Brightness and Contrast	
Image Color	8 types of black heat ,white heat ,and fake color	
Digital Zoom	1–8 times continuous	
Image mode	Temperature measurement mode ,ordinary mode ,gas mode	
Measurement Temperature Range	-20°C~+500°C	
Operating Temperature	-20°C~+60°C	
Image Output	Micro HDMI Maximum output image support 1920 x 1080	
Interface	DJI H.264 USB/HDMI	
Storage	64G TF card Can store images and video files with temperature data	
Voltage	DC10–28V	
Cool-down time	< 6min ( Room temperature )	
Weight	≤ 800g ( Without lens )	
Size	140mm x 85mm x 95mm ( Without lens )	

# APPLICATIONS

\* Specifications subject to changes without notice.



Natural gas pipeline valves



Oil storage



Transportation of finished oil and hazardous chemicals



Environmental law enforcement



Oil and gas transmission pipeline



Unorganized emissions of VOCs  
BR-UX40-2023V1