



Electro Optical Components, Inc.

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

Toll Free: 855-EOC-6300

www.eoc-inc.com | info@eoc-inc.com



Long-life OGI Infrared Detector

Miniature Version & Standard Version

FEATURES

Revolutionary HOT MWIR T2SL Technology

High sensitivity and high performance

Low power, Small size < 260g (Miniature Version)

320x256 Resolution, 30µm Pitch (EOC-GDI-320x256)

640X512 Resolution, 15µm Pitch (EOC-GDI-640x512)



Standard








Miniature



SPECIFICATIONS

Version	Miniature		Standard	
Model	EOC-GDI-320x256 Mini	EOC-GDI-640x512 Mini	EOC-GDI-320x256	EOC-GDI-640x512
Resolution	320X256	640X512	320X256	640X512
Pixel Pitch	30µm	15µm	30µm	15µm
Spectral Response	3.2µm –3.5µm			
Steady Power Consumption	≤4w	≤5w	< 6w	< 8w
Detector Type	HOT MWIR T2SL			
NETD	≤15mk	≤20mk	≤15mk	≤20mk
Operability	> 99%			
Cooling Method	Sterling Cooler			
Power Supply	12VDC/24VDC			
Cool Down Time	< 5 min.			
Weight	< 260g		< 550g	
Frame Rate	50Hz			
F Number	F/1.2 (with 3.3µm Cold Filter) , other F# also available			
Dimension (mm)	76x39x57.5mm		137x70X60mm	
Operation Temperature	-40 ~ + 60 °C			
Storage Temperature	-50 ~ + 70 °C			

Electronic boards for VOCs cooled OGI detector:

Selection Table for the Boards				
Proxy Board		Video Board	Power Board	
XB-A	XB-B	VB	PWB	TCQ-1
				

Lens for VOCs cooled OGI detector:

Selection Table for the Lens*			
			
Model		Model	
Focal Length	35mm	Focal Length	55mm
Aperture	1.2	Aperture	2.0
Horizontal Field of View	15.6°	Horizontal Field of View	10°
Vertical Field of View	12.5°	Vertical Field of View	7.5°
Wave Band	3.0–3.6 μ m	Wave Band	3.0–5.0 μ m

* : Other lens sizes upon request.

For Other Gas Types:

Narrow bandpass filter	Typical detectable gas types
3.3μm	Methane Butane, Octane, Xylene, Benzene, Propylene and other VOCs gases
4.3μm	Carbon dioxide (CO2) and other gases
4.6μm	Carbon monoxide (CO) and other gases
6.1μm	Nitrogen oxides (NOx) and other gases
8.3μm	Halothane, Refrigerants and other gases
10.55μm	Sulfur hexafluoride (SF6), ammonia (NH3), bromomethane and other gases

