

# Long-life **OGI** Infrared Detector

## Miniature (SWaP) Version & Standard Version




Standard Version



Miniature (SWaP) Version

### FEATURES

- Revolutionary HOT MWIR T2SL Technology
- High sensitivity and high performance
- Low power , Small size < 260g ( Miniature Version )
- 320x256 Resolution, 30 $\mu$ m Pitch (T3Mm-330H)
- 640X512 Resolution, 15 $\mu$ m Pitch (T6Mm-330H)

### SPECIFICATIONS

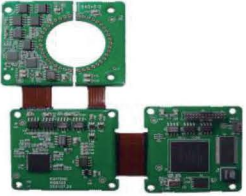
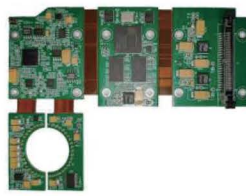


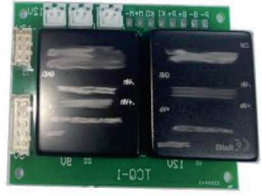
Version	Miniature ( SWaP ) Version		Standard Version	
Model	T3Mm-330H	T6Mm-330H	T3M-330H	T6M-330H
Resolution	320X256	640X512	320X256	640X512
Pixel Pitch	30 $\mu$ m	15 $\mu$ m	30 $\mu$ m	15 $\mu$ m
Spectral Response	3.2 $\mu$ m –3.5 $\mu$ m			
Steady Power Consumption	$\leq$ 4w	$\leq$ 5w	< 6w	< 8w
Detector Type	HOT MWIR T2SL			
NETD	$\leq$ 15mk	$\leq$ 20mk	$\leq$ 15mk	$\leq$ 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 3.3 $\mu$ m Cold Filter ) , other F# also available			
Dimension (mm)	76x39x57.5mm		137x70X60mm	
Operation Temperature	-40 ~ + 60 °C			
Storage Temperature	-50 ~ + 70 °C			

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Specifications are subject to change without prior notice.  
 KT Photonics Inc. DS-OGI-2301VA

### 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
				

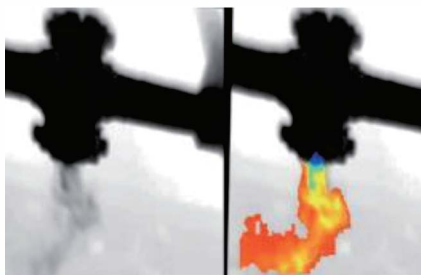
### Lens for VOCs cooled OGI detector:

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 μm	Wave Band	3.0–5.0 μm

\* : 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 (CO <sub>2</sub> ) and other gases
4.6μm	Carbon monoxide (CO) and other gases
6.1μm	Nitrogen oxides (NO <sub>x</sub> ) and other gases
8.3μm	Halothane, Refrigerants and other gases
10.55μm	Sulfur hexafluoride (SF <sub>6</sub> ), ammonia (NH <sub>3</sub> ), bromomethane and other gases



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