



Ragnar MW DC

- T2SL technology
- Unique pixel-level filtering
- 320x256 resolution
- Red/blue MWIR IR contrast

Description

The Ragnar MW DC is a novel 30 μm pitch T2SL detector for dual color MWIR applications. The wavelength response tunability makes it possible to optimize detector performance for every application. Both well known common dual color applications and emerging ones will benefit from this novel and affordable technology. System design will rely on one single detector array, without optical parallax or frame rate constraints. The inclusive wavelength response is a world first and provides truly innovative capability. The groundbreaking T2SL technology combines all the benefits of alternative detector materials (low NETD, excellent quantum efficiency, array uniformity and operability) without their drawbacks.

Applications

- Solar clutter sensitive applications (missile warning, maritime surveillance etc.)
- Innovative optical gas imaging
- Multispectral imaging
- Industrial applications (thermography, NDT etc.)
- And much more



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GENERAL INFORMATION

Application	Extended detection	
Technology	Dual color T2SL	
Format	320x256	
Pixel pitch	30 μm	

TYPICAL DETECTOR PERFORMANCE

Spectral range	3.7-5.1/4.2-5.1 μm	
F number options	F/2	
NETD	15 mK	
Pixel operability	99.7%	
Maximum frame rate	120 Hz	Selectable frame rate supported

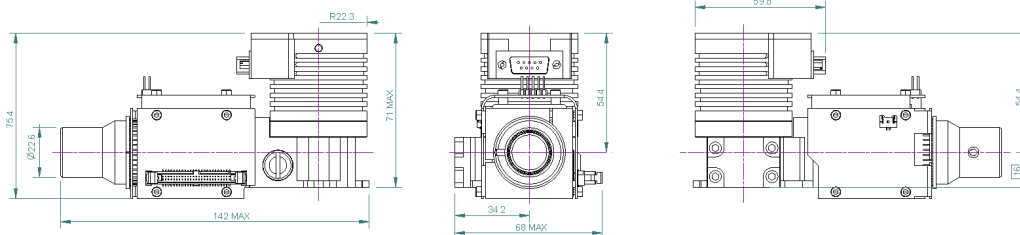
PROXIMITY ELECTRONICS

Supply voltage	12 V	
Maximum frame rate	60 Hz	Selectable frame rate supported
Electrical interfaces	LVDS and I2C	Cooler control and proximity electronics included

IDDCA PARAMETERS

Cooler options	FS R405K	RM3 or K508 options available
Power consumption	6 W / 11 W	Steady state / Cooldown
Cool down time	4 min	
Cooler voltage	12 V	24 V cooler options available
Weight and dimensions	550 g	71x57x142 mm
Cooler MTTF	10 000 h	
Environmental conditions	MIL-STD-810G	

Measurements in mm, for guidance purposes only.



Technical characteristics described above are not contractual and may change without prior notice. This is revision 1.0.