

# InSb Cooled IR Detector

InSb 1280 x 1024 15 $\mu$ m

DI1280-15M

## Array Features

- 1280 x 1024 15 $\mu$ m Pitch
- High Operability
- Very High Resolution
- High Sensitivity (Low readout noise, Low dark current)

## Applications

- Thermal Imaging System
- Infrared Military System
- Thermal Observation Device (Day and Night)
- Surveillance System



## Images from the 2D IR detector



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## Specifications

Array format	1280x1024
Pixel pitch	15 $\mu$ m
Infrared detector material	InSb
Wavelength band	MWIR (3 $\mu$ m~5 $\mu$ m)
No. of output channels	4 or 8 channels
Operability	$\geq 99.5\%$ (Typ. $> 99.8\%$ )
NETD	$\leq 20$ mK
Max frame rate	100Hz@ 1280x1024 Full frame
Readout mode	IWR
Cool down time	$\leq 7$ min.
Environmental condition	MIL-STD-810
Operating temperature	-40~+71 $^{\circ}$ C

## DI1280-15M Dimensions

