

# C330S

## Cooled Infrared Detector

Long Wave Detection  
without interference



### Description

C330S consists of 320×256/30μm T2SL cooled infrared detector and Integrated Detector Cooler Assembly (IDCA). It is designed for high performance 7.7~9.4μm Long Wave Infrared (LWIR) wavebands. Without fear of interference, C330S cooled infrared detector is suitable for target detection in complex backgrounds, such as vehicles in the sand, ships in the sea and aircrafts in the sky that with sunlight and reflective light.

### Long Wave Detection

- Strong ability to penetrate sand and dust
- Capable of detecting cryogenic objects
- Without fear of interference in complex environments

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### T2SL Technology

- High quantum efficiency, high sensitivity
- Excellent performance in LWIR detection
- Good uniformity, high yield



## Specifications

Model	C330S LWIR
Sensitive Material	T2SL
Resolution	320x256
Pixel Size	30μm
Spectral Range	7.7μm±0.2μm ~ 9.4μm±0.3μm
Working Mode	Snapshot; ITR Integration Mode; Windows Mode; Anti-blooming
Charge Capacity	36Me-/12Me-
Dynamic Range	≥80dB
Number of Output	1 or 4; Up to 6.6 MHz per Output
Typical NETD	20mK(F2)
Effective Pixel Rate	≥99.5%
Response Non-uniformity	≤8%
Cryocooler	RS058
Steady Power Consumption	≤8W
Max. Power Consumption	≤17W
Power Supply	24V DC
Cooling Time	≤5min30s
Weight	≤600g
Maximum Size (mm)	142x58.5x71
Operating Temperature	-45°C ~ +71°C

Specifications are subject to change without prior notice.

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