



# T2SL Cooled Infrared Detector

The Most Cutting-edge Cooled IR Detector Technology



C330S MW/LWIR



C615S LWIR



C330S LWIR

GST runs the only mass production line in China for T2SL cooled detectors and developed its long wave and dual-color cooled infrared detectors based on its MBE and test equipment, which covers more than 200 techniques and over 3000 processes. GST has first obtained the national scientific and technological achievements certification of T2SL technology, which covering MWIR, LWIR, VLW and dual colour cooled detectors.



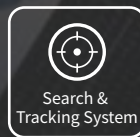
Remote  
Monitoring  
System



Hand-held  
Reconnaissance  
System



Multi-sensor  
Payload



Search &  
Tracking System



Enhanced Flight  
Vision System



Gas detection



MW



LW

## “Meet the needs of wide band sensitive detection”



- High quantum efficiency, high sensitivity, the best NETD as low as 18mK.
- Excellent performance in LWIR&Dual colour.

## “Designed for specific applications”



- High FPA operation temperature.
- Large array, good uniformity, high yield.

Model	C330S MWIR/LWIR	C330S LWIR	C615S LWIR
Material	T2SL		
Resolution	320x256		640x512
Pixel Pitch	30μm		15μm
Spectral Range	MW: 3.7um~4.8um LW: 7.7um~9.5um	7.7um~9.5um LW	
Working Mode	Snapshot; ITR integration mode; windows mode; anti-blooming		Snapshot; ITR&Interlace& binning integration mode; windows mode; anti-blooming
Charge Capacity	MW: 8.9Me-/3Me- LW: 21Me-	36Me-/12Me-	ITR: 12.22Me-/6.67Me- Interlace & binning: 24.44Me-/13.33Me-
Dynamic Range	MW: ≥76dB LW: ≥80dB	≥80dB	ITR: ≥76dB Interlace & binning: ≥77dB
Number of Output	2or8; up to 12Mpixel/s per output	1or4; up to 6.6Mpixel/s per output	4; up to 22.5Mpixel/s per output
NETD	MW ≤20mK LW ≤25mK	≤25mK (F2)	≤30mK (F2 ITR) ≤25mK (F2 Interlace & binning)
Effective Pixel Rate	≥99.0%	≥99.5%	
Response non-uniformity	≤8%		
Cooler Type	RS058		
Steady Power Consumption	< 9W	< 8W	
Max Power Consumption	< 18W	< 17W	
Power Supply	24V DC		
Cool Down Time	< 8min	< 5min30s	
Weight	≤600g		
Dimension(mm)	142x58.5x71		148x58.5x71
Working Temperature	-45°C ~ +71°C		

Specifications are subject to change without notice.

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