

C615S Cooled Infrared Detector

Long Wave Detection
without Interference



Description

The C615S is a 640×512 resolution, 15μm pixel size long wave infrared detector with integrated dewar cooler assembly (IDCA). Adopting the state-of-the-art T2SL technology, it has high quantum efficiency, high frame rate, high sensitivity, low noise, good uniformity. Outstanding image quality can be obtained in various complex environments, such as vehicle drives in the dusty atmosphere, ship sails on the water with reflective light and aircraft is flying through the cloud.

Long Wave Detection

- Strong penetration through dusty atmospheres
- Not disturbed by sun glint effects and light reflections
- Ability to detect cryogenic objects

T2SL Technology

- High quantum efficiency, high sensitivity
- Mass production, good uniformity

High Reliability

- High FPA operation temperature



Specifications

Model	C615S LWIR
Sensitive Material	T2SL
Resolution	640x512
Pixel Size	15 μ m
Spectral Range	7.7 μ m \pm 0.2 μ m ~ 9.4 μ m \pm 0.3 μ m
Working Mode	Snapshot ITR/Interlace & Binning Integration Modes Windows Mode Anti-blooming
Charge Capacity	ITR: 12.22Me-/6.67Me- Interlace & Binning: 24.44Me-/13.33Me-
Dynamic Range	ITR: \geq 76dB Interlace & Binning: \geq 77dB
Number of Output	4; Up to 22.5MHz/per Output
Typical NETD	25mK (F2/ITR) 22mK (F2/Interlace & Binning)
Effective Pixel Rate	\geq 99.5%
Response Non-uniformity	\leq 8%
Cryocooler	RS058
Steady Power Consumption	\leq 8W
Max. Power Consumption	\leq 17W
Power Supply	24V DC
Cooling Time	\leq 5min30s
Weight	\leq 600g
Maximum Size (mm)	148x58.5x71
Operating Temperature	-45 $^{\circ}$ C ~ +71 $^{\circ}$ C

Specifications are subject to change without prior notice.

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