





JUPITER MW™

1280 x 1024 - 15μm - MCT



With the fusion of high-performance, high-resolution and large integration capacitance, JUPITER MW™ allows you to have the best DRI range on the battlefield. This MWIR SXGA 15µm pitch IDCA takes full avantages of LYNRED's high performance technologies.

THE HIGH-PERFORMANCE SXGA MEGAPIXEL PRODUCT







DEFENSE

SURVEILLANCE

SPACE











MULTI-PURPOSE



SENSITIVITY







LYNRED HEADQUARTERS DEVELOPMENT & PRODUCTION CENTER

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•• THE HIGH-PERFORMANCE SXGA MEGAPIXEL PRODUCT ••

| ARRAY FEATURES | | |
|--------------------------------------|---|---------------------|
| Format | ■ 1280 x 1024 | |
| Pixel pitch | ■ 15 x 15µm | |
| Detector spectral response | ■ 3.7 - 4.8µm | |
| FPA operating temperature | 80 K typical | |
| ROIC (READ-OUT INTEGRATED CIRCUIT) | | |
| Selection | Serial electrical interface | |
| ROIC architecture | Snapshot operation, direct injection input circuit, Integrate-While-Read mode | |
| ROIC functionalities | Programmable integration time, anti-blooming, image invert / revert / inverse | |
| Windowing modes | ■ 1280 x 1024 or programmable (one or two windows of any size down 260 x 1) | |
| Charge handling capacity | ■ 1.8 10°e- (Gain 0); 4.5 10°e- (Gain 1) | |
| Electrical dynamic range | ■ 1.4 V (Gain 0) and 2 V (Gain 1) | |
| Signal outputs | ■ 4 or 8 | |
| Pixel output rate | ■ Up to 20 MHz per output | |
| Full Frame rate | ■ Up to 60 Hz (4 outputs) or 118 Hz (8 outputs) | |
| TYPICAL PERFORMANCES | | |
| NETD | ■ 18 mK (293K, intergration time for 50% well fill) | |
| Array operability | ■ 99.9% typical | |
| | LSF9548 | K548 |
| FOV | ■ f/5.2; f/2 | ■ f/4; f/4.6; f/5.5 |
| Regulated Input power | ■ < 22 WDC* | ■ < 13 WDC* |
| Cooldown Input power | ■ < 50 WDC* | ■ < 30 WDC* |
| Power Supply | ■ 24 V | ■ 24 V |
| Cooldown time @20°C | ■ 6 min | ■ 7 min 30 sec |
| Weight | ■ < 2.1 kg | ■ < 0.8 kg |
| Operating temperatures | ■ -40°C / +71°C | ■ -40°C / +71°C |
| MTTF (24/7 surveillance, 20 to 40°C) | 2 3 000 h | ■ 8 000 h |

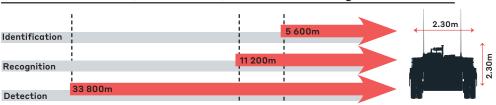
^{*}WDC: at cooler C&CE DC input

OPTIONS

Proximity driving electronics (including ADC)

Technical training and support

D.R.I Performances (300 mm lens) - 2.3 m vehicle target



 $Range\ for\ \textit{Johnson's criteria},\ target\ delta \textit{T} = 2\textit{K},\ perfect\ atmospheric\ and\ optics\ transmissions},\ theoretical\ real\ 15\mu\textrm{m}\ pixel\ pitch\ MTF$

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