DAPHNIS-XGA MW

1024 x 768 - 10 µm pitch - MCT

→ XGA 10 µm pitch: easy upgrade from VGA 15 µm pitch





DAPHNIS-XGA MW is the answer to your needs for VGA 15 µm systems performance improvements. Offering the same chip size, this product is suitable for all applications: ground vehicles, airborne, naval and portable.

DAPHNIS-XGA MW guarantees:

- HIGH RESOLUTION
- LONGER RANGE
- LARGER FIELD OF VIEW
- COMPACTNESS
- EASY TRANSFER FROM 15 μm TO 10 μm
- IMPROVED RELIABILITY

DAPHNIS-XGA MW takes full advantage of Lynred latest HgCdTe technologies. It provides simplified interfaces for an easy and quick integration in your systems.

The proxy board offers management and data processing of the detector as well as digital output.

JAPHNIS-XGA MW

ARRAY FEATURES

| Format | 1024 x 768 | | | |
|----------------------------|--|--|--|--|
| Pixel pitch | 10 μm x 10 μm | | | |
| Detector spectral response | 3.7 μm – 4.8 μm | | | |
| FPA Operating temperature | Up to 120 K | | | |
| ROIC (READ-OUT INTEGRA | TED CIRCUIT) | | | |
| ROIC architecture | Direct Injection input circuit | | | |
| ROIC functionalities | Programmable integration time, anti-blooming, invert/revert; binning, snapsho operation, selectable read mode (IWR or ITR), programmable windowing, | | | |

| | operation, selectable read mode (IWR or ITR), programmable windowing, high dynamic range |
|--------------------------|---|
| Windowing modes | 320 x 4 minimum programmable |
| Charge handling capacity | 3 main gains: 0.8 Me-, 2.6 Me-, 5.2 Me- |
| | |

INPUT / OUTPUT

| Board Power supply | 6V _{DC} |
|--------------------|------------------------------|
| Video output | 14 bits, CAMERALINK® |
| Frame rate | Up to 100 Hz full frame rate |



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TYPICAL PERFORMANCES

| NETD | 20 mK (293K, 70% well fill, 2.6 Me-) | | | | | |
|--|--------------------------------------|---------------------|---------------------|---------------------|--|--|
| Array operability | 99.8% | | | | | |
| | RM2 / K563 | RM4 | RM3 / K508 | K508 N | | |
| FOV / Driving electronics (*) | f/2 to f/4 | f/2 to f/4 | f/2 to f/4 | f/2 to f/4 | | |
| Cooler power supply | 12 V | 12 V | 24 V | 24 V | | |
| Cooler regulated input power @ 20°C (**) | 4 W _{DC} | 4.5 W _{DC} | 4.7 W _{DC} | 4.7 W _{DC} | | |
| Cooldown input power @ 20°C (**) | 12 W _{DC} | 21 W _{DC} | 13 W _{DC} | 13 W _{DC} | | |
| Cooldown time @ 20°C | 6 min | 4 min | 4 min 30 s | 4 min 30 s | | |
| Cooler dimensions (mm) | Ø 30.5 × L 82 | Ø 43.5 × L 78 | Ø 46 × L 71 | Ø 46 × L 71 | | |
| IDCA height (optical axis, mm) | H < 123.5 | H < 127 | H < 144 | H < 144 | | |
| Weight | 0.47 kg | 0.67 kg | 0.64 kg | 0.67 kg | | |
| Operating temperature | - 40° C to 71° C | - 40° C to 71° C | - 40° C to 71° C | - 40° C to 71° C | | |
| MTTF for 24/7 typical surveillance profile | 8.000 h | 18.000 h | 10.000 h | 17.000 h | | |

(*) Contact Sofradir for available configurations (**) WDC = at cooler C&CE DC input

OPTIONS

Technical training and support

APPLICATIONS



Technical characteristics described in this data sheet are for information only. They are not contractual and may change without prior notice.

Exclusive Distributor North America



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