

QWIP 64020

LWIR THERMAL DETECTOR





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Applications

- Border/Coastal Security Applications
- Long Range DRI Performance

Array Features

- Sensor Type : QWIP
- Sensor Material : GaAs/AlGaAs
- FPA Format : 640 x 512 FPA
- Pixel Pitch : 20 μm
- Spectral Response : 8 μm – 9 μm
- FPA Operating Temp. : 65 K – 68 K Typical

Electro-Optical Performance

- NETD : ≤ 30 mK (@ F/2, T = 67 K)
- Pikel Operability : $> \%99,5$

Read-Out Integrated Circuit (ROIC)

- Output : Analogue 1
- Max Power Consumption : 50 mW
- Max Frame Rate : 25 Hz
- ROIC Architecture : ITR / IWR
- Charge Handling Capacity : 11 Me-
- Window Modes : Programmable

Integrated Detector Dewar Cooler Assembly (IDDCA) Features

- F/# : F/2 (Can be modified upon request)
- Cooler Type : Linear
- Cooldown Time : < 5 mn
- Power Supply : 24 V, 5 A

Environmental Conditions

- Operating Temperature : -40 °C / $+65$ °C
- Storage Temperature : -40 °C / $+55$ °C