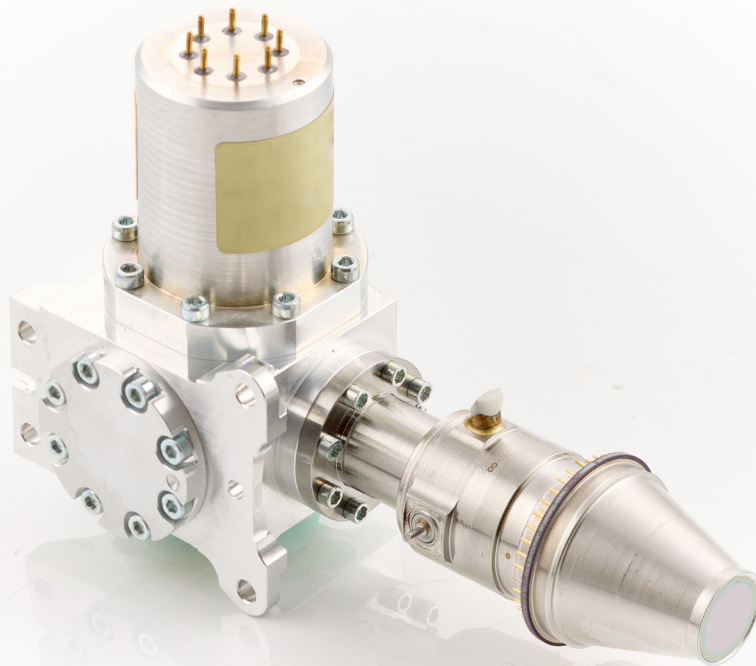


FELIS-640/15-MW

MWIR INTEGRATED DETECTOR DEWAR
COOLER ASSEMBLY

3.7 - 4.8 μm SPECTRAL RESPONSE
HIGH OPERABILITY
PROGRAMMABLE FRAME RATE





FELIS-640/15-MW

MWIR INTEGRATED DETECTOR DEWAR COOLER ASSEMBLY

Application

- Reconnaissance and Surveillance System

General Features

- HgCdTe Active Material
- High Responsivity
- High Operability
- Low Read-out Noise
- High Frame Rate
- Military Standard (MIL-STD-883G)

Technical Specifications

- Sensor Type : HgCdTe
- Spectral Response : 3.7 μm - 4.8 μm
- Resolution : 640x512
- Pixel Pitch : 15 μm
- F# : f/2, f/4

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- Integration Time : Programmable with Tclk steps
- Readout Circuit Modes : Snapshot, IWR, ITR
- Frame Rate : 30, 60, 120 fps
- Maximum Pixel Rate : 10 MHz per output
- Storage Charge Capacity (@ ITR) : 5.5Mé (HG) / 10Mé (MG) / 14.5Mé (LG)
- Analog Outputs : 1, 2, 4 outputs and 2 reference outputs
- System Clock (1/Tclk) : 10 MHz
- Output Swing : ≥ 2.0 V
- Anti-blooming Function : Programmable anti-blooming level
- Power Dissipation : ≤ 120 mW (4 output modes)
- Windowing : Programmable window size and location

Typical Features

- NETD : < 25 mK (20°C, f/4, 50% Well-fill)
- Operability : $> 99.5\%$

Packaging

- Cooler : Stirling Cooler
- Operating and Storage Temperature : -40°C to $+71^\circ\text{C}$
- Weight : < 400 g
- Dimension (W x H x D) : 120 mm x 67 mm x 68 mm
- MTTF : > 10000 hours