

MWIR/LWIR Polarimeter (DIPOD)



Parameter	Value
Waveband	3.7 - 5.1 μm & 7.5 - 10.4 μm
Pixel Format	1280 x 720
Pixel Pitch	12.0 μm
Frame Rate	60 Hz
f/#	2
Objective Focal Lengths	200mm, 600mm
FOV (200mm)	4.4° x 2.5°
FOV (600mm)	1.5° x 0.83°
Sensing modes	Thermal + Polarimetric
Polarimetric Products	S ₁ , S ₂ , DOLP
Integrated Tracking Mount	PVPAEO NightHawk gimbal

Summary

- Developed under Phase II SBIR
- Based on Strained Super Lattice FPA technology (Night Vision Labs)
- MWIR/LWIR in single FPA
- Polarization sensing on demand
- Compact long focal length optics
- First test in April/May 2018

Applications

- Long range thermal and polarimetric imaging
- Acquisition and tracking of airborne targets
- Target discrimination against background clutter



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