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

MWIR/LWIR Polarimeter (DIPOD)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waveband</td>
<td>3.7 – 5.1 µm &amp; 7.5 – 10.4 µm</td>
</tr>
<tr>
<td>Pixel Format</td>
<td>1280 x 720</td>
</tr>
<tr>
<td>Pixel Pitch</td>
<td>12.0 µm</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>60 Hz</td>
</tr>
<tr>
<td>f/#</td>
<td>2</td>
</tr>
<tr>
<td>Objective Focal Lengths</td>
<td>200mm, 600mm</td>
</tr>
<tr>
<td>FOV (200mm)</td>
<td>4.4° x 2.5°</td>
</tr>
<tr>
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<td>Sensing modes</td>
<td>Thermal + Polarimetric</td>
</tr>
<tr>
<td>Polarimetric Products</td>
<td>S₁, S₂, DOLP</td>
</tr>
<tr>
<td>Integrated Tracking Mount</td>
<td>PVPAEO NightHawk gimbal</td>
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