Commercial infrared cameras are available with varying cold filter designs, so we offer several StingRay lens families to complement the various waveband options on the market. Our Cardinal series supports what we have traditionally referred to as the extended midwave infrared (eMWIR).

The Cardinal series is almost identical to our popular Ruby family, with the added capability of waveband optimization from 1.5 to 5µm simultaneously. The Cardinal lineup has multiple focal lengths with F/2.3 collection apertures and the IR industry’s standard bayonet mount. They also feature a 1” cold shield height, support detectors up to 21mm on the diagonal, and include space for a 1” filter holder.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Focal Length</th>
<th>Optimized Waveband</th>
<th>F #</th>
<th>Image Diameter</th>
<th>Interface</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>SR1935-A01</td>
<td>25mm</td>
<td>1.5-5µm</td>
<td>F/2.3</td>
<td>21mm</td>
<td>bayonet</td>
<td>2, 21</td>
</tr>
<tr>
<td>SR1936-A01</td>
<td>50mm</td>
<td>1.5-5µm</td>
<td>F/2.3</td>
<td>21mm</td>
<td>bayonet</td>
<td>2, 21</td>
</tr>
<tr>
<td>SR1937-A01</td>
<td>100mm</td>
<td>1.5-5µm</td>
<td>F/2.3</td>
<td>21mm</td>
<td>bayonet</td>
<td>2, 21</td>
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<tr>
<td>SR4809-A01</td>
<td>200mm</td>
<td>1.5-5µm</td>
<td>F/2.3</td>
<td>21mm</td>
<td>bayonet</td>
<td>2, 21</td>
</tr>
</tbody>
</table>

*For use with cryogenically cooled cameras.

FEATURES

1. Manual Iris
2. Manual Focus
3. Manual FOV
4. Motorized Iris
5. Motorized Focus
6. Motorized FOV
7. Motorized Filter Wheel
8. Active Athermalization
9. Controller Board
10. Base Plate
11. Filter Holders
12. Adapters Available
13. Fixed Focus
14. Fixed Aperture
15. Passive Athermalization
16. Ruggedized
17. DLC Coating
18. Fisheye Style
19. Macro
20. Fully Closed Iris
21. Focus Lock
22. Catadioptric
23. Telecentric

ALL LENSES ARE EAR99
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Standard BroadBand Lens Assemblies

Keeping pace with the ongoing SLS and MCT detector developments, the StingRay Diablo™ line of sophisticated BroadBand, 3-12µm F/2.0, lenses has already become a welcome addition to StingRay growing catalog of standard products.

All Diablo™ lenses offer a 1" cold shield height, include a manual focus with lock and the IR industry's standard bayonet mount. These lenses are specifically optimized for balanced performance over the MWIR/LWIR region simultaneously while achieving compatibility with the widest array of commercially available cameras from both domestic and international manufacturers.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Focal Length</th>
<th>Optimized Waveband</th>
<th>F #</th>
<th>Image Diameter</th>
<th>Interface</th>
<th>Features</th>
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<tbody>
<tr>
<td>SR2913-A01</td>
<td>90°HFOV*</td>
<td>3-12µm F/2.0</td>
<td>21mm bayonet</td>
<td>2, 11, 18, 21</td>
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<tr>
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<tr>
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<td>3-12µm F/2.0</td>
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<td>3-12µm F/2.0</td>
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<td>3-12µm F/2.0</td>
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<tr>
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<td>3-12µm F/2.0</td>
<td>21mm bayonet</td>
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</tr>
</tbody>
</table>

*Assuming 21mm image diagonal

FEATURES


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