

Standard **CARDINAL** BroadBand Lens Assemblies

LARGE FORMAT SWIR/MWIR

Commercial infrared cameras are available with varying cold filter designs, so we offer several StingRay lens families to compliment 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 5 μ m 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.

Part Number	Focal Length	Optimized Waveband	F #	Image Diameter	Interface	Features
SR1935-A01	25mm	1.5-5 μ m	F/2.3	21mm	bayonet	2, 21
SR1936-A01	50mm	1.5-5 μ m	F/2.3	21mm	bayonet	2, 21
SR1937-A01	100mm	1.5-5 μ m	F/2.3	21mm	bayonet	2, 21
SR4809-A01	200mm	1.5-5 μ m	F/2.3	21mm	bayonet	2, 21

*For use with cryogenically cooled cameras.

FEATURES

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

ALL LENSES ARE EAR99

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Standard **DIABLO** BroadBand Lens Assemblies

devilishly broad infrared.

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.

Part Number	Focal Length	Optimized Waveband	F #	Image Diameter	Interface	Features
SR2913-A01	90°HFOV*	3-12µm	F/2.0	21mm	bayonet	2, 11, 18, 21
SR2654-A01	25mm	3-12µm	F/2.0	21mm	bayonet	2, 21
SR2655-A01	50mm	3-12µm	F/2.0	21mm	bayonet	2, 21
SR2656-A01	100mm	3-12µm	F/2.0	21mm	bayonet	2, 11, 21
SR2886-A01	200mm	3-12µm	F/2.0	21mm	bayonet	2, 11, 21, 22
SR3560-A01	180°HFOV*	3-12µm	F/2.0	21mm	bayonet	2, 11, 18, 21

*Assuming 21mm image diagonal

FEATURES

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

ALL LENSES ARE EAR99

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