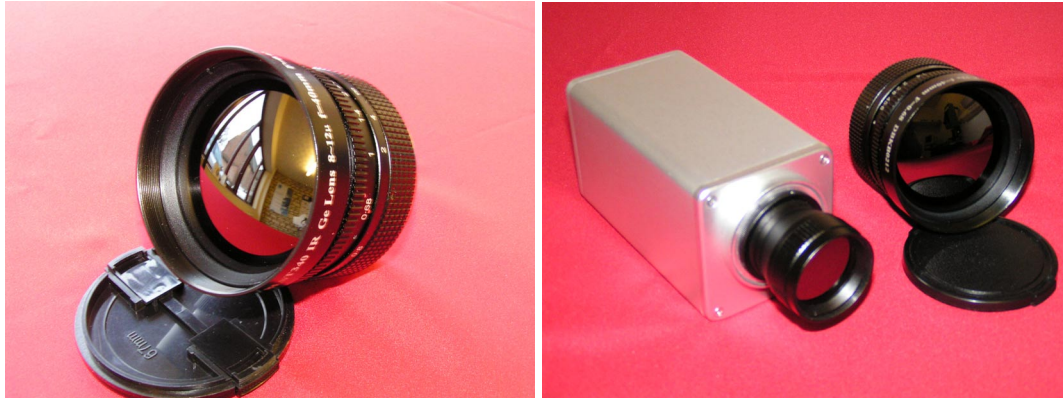


armstrong optical

8-14 μ m Thermal Imaging lenses

The high performance and small size of the range of thermal imaging lenses is due to a combination of optimum design coupled with the use of aspheric surfaces. These aspheric surfaces not only allow the elimination of optical aberrations, they also allow the reduction in the number of lens elements in the optical train. These factors combine to allow the production of lens systems that are smaller, lighter and less expensive than comparable all-spherical lens systems.



Hard-carbon A/R coatings, motorised focus, custom zoom and switched-field systems plus lens systems for other wavebands are available on request.

There is a range of standard lenses for the IR108, IR112, IR210 series of sensors and cameras and the IR106 and IR110 sensor/camera:

IR108/210 & IR112

Focal Length (mm)	f/#	FOV	IFOV mrad	
			108/210	112
12	0.7	~69°x52°	3.760	3.134
19	0.7	~43°x33°	2.375	1.979
35	0.7	~24°x18°	1.289	1.074
40	0.68	~21°x16°	1.128	0.940
40	0.8	~21°x16°	1.128	0.940
50	0.7	~17°x12°	0.902	0.752
75	0.7	~11°x8°	0.602	0.501
80	1.0	~10°x8°	0.564	0.470
90	1.0	~9°x7°	0.501	0.418
100	1.0	~8°x6°	0.451	0.376
120	1.1	~7°x5°	0.376	0.313
150	1.0	~6°x4°	0.301	0.251

IR106/110

Focal Length (mm)	FOV	IFOV mrad
35	~9°x7°	1.003
75	~4°x3°	0.468
100	~3°x2.5°	0.351
140	~2°x1.5°	0.251

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