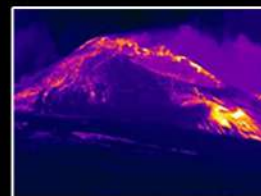


SCEURITY CATALOG 2023

*Ideal for surveillance, fire prevention,
traffic monitoring etc*



 **SUNNY**
INFRARED OPTICS

Infrared Security Catalog 2023

Sunny Infrared Optics provides the 24/7 surveillance solutions in various segments: surveillance, fire prevention, traffic monitoring, public sites(seaports, airports, industrial plants) etc

We can deliver a variety of long range thermal imaging lenses, including continuous zoom, motorized, dual-fov, athermalized etc. These lenses can ideal for various FPA formats up to SXGA, they also have the feature of long-range detection and recognition, all-weather monitoring and high image quality.



- Focal length up to 1350mm.
- Diffraction-limited optical design.
- High durability proposals for harsh environment.
- Provide customized solutions for infrared security lens.

NO.	f (mm)	F#	Sensor	Transmission @8-12μm	Fov(°)	Focus	M.B.F.L (mm)	Mount	Dimensions (mm)	Sealing	Front Lens Coating
QVGA 12μm Series											
1	2.1	1.0	256*192 12μm	≥90.5%	90.0(H)×64.2(V)	Athermalized	5.06	M17×0.5	L10.7;φ10.13	IP 67	HD
2	3.6	1.0	256*192 12μm	≥93.2%	50.0(H)×37.2(V)	Athermalized	5.06	M17×0.5	L10.1;φ17.2	IP 67	HD
3	6.9	1.0	256*192 12μm	≥90.5%	25.0(H)×18.8(V)	Athermalized	5.06	M17×0.5	L28.4;φ26	IP 67	HD
4	2.65	1.0	320*240 12μm	≥85.7%	92.0(H)×65.5(V)	Athermalized	7.2	M24×0.5	L19.5;φ31	IP 67	DLC
5	4.7	1.0	320*240 12μm	≥90.0%	50.0(H)×36.4(V)	Athermalized	7.2	M24×0.5	L19.5;φ31	IP 67	HD
6	9	1.0	320*240 12μm	≥93.2%	24.0(H)×18.1(V)	Athermalized	4.08	M18×0.5	L11.75;φ20	IP 67	AR
7	13.7	1.0	320*240 12μm	≥87.7%	16.0(H)×12.0(V)	Athermalized	7.2	M24×0.5	L19.5;φ31	IP 67	HD
8	6.3	1.0	384*288 12μm	≥89.9%	42.2(H)×31.6(V)	Athermalized	4.08	M18×0.5	L11.6;φ20	IP 67	HD
9	25	1.0	384*288 12μm	≥90.2%	10.5(H)×7.9(V)	Athermalized	8.5	M28×0.75	L32.7;φ32.1	IP 67	HD
VGA 12μm Series											
10	4.9	1.1	640*480 12μm	≥90.5%	95.0(H)×69.3(V)	Athermalized	5.13	M24×0.5	L30.8;φ32	IP 67	AR
11	9.1	1.0	640*480 12μm	≥85.3%	48.3(H)×36.2(V)	Athermalized	6.3	M19×0.5	L12;φ12.3	IP 67	DLC
12	13.5	1.0	640*480 12μm	≥87.5%	32.0(H)×25.7(V)	Athermalized	7.37	M34×0.75	L23.4;φ34	IP 67	HD
13	19	1.0	640*480 12μm	≥87.2%	22.9(H)×17.3(V)	Athermalized	9	M25×0.5	L20;φ28	IP 67	HD
14	25	1.0	640*480 12μm	≥87.2%	17.4(H)×13.1(V)	Athermalized	9	M25×0.5	L26;φ35	IP 67	HD
15	35	1.0	640*480 12μm	≥86.5%	12.5(H)×9.4(V)	Athermalized	17	M34×0.5	L32.5;φ45	IP 67	HD
16	55	1.0	640*480 12μm	≥86.6%	8.0(H)×6.0(V)	Athermalized	9	M45×0.75	L58.2;φ65	IP 67	HD
17	75	1.0	640*480 12μm	≥87.1%	5.9(H)×4.4(V)	Athermalized	10	M34×0.5	L81.5;φ85.5	IP 67	HD
18	100	1.0	640*480 12μm	≥86.0%	4.4(H)×3.3(V)	Athermalized	10	M45×0.75	L101.3;φ111	IP 67	HD
19	50	1.0	640*480 12μm	≥87.6%	8.8(H)×6.6(V)	Motorized	/	flange	L83.65;φ82	IP 67F.L.O	DLC
20	75	1.0	640*480 12μm	≥90.1%	5.9(H)×4.4(V)	Motorized	9	flange	L104;φ102	IP 67	HD
21	100	1.0	640*480 12μm	≥90.0%	4.4(H)×3.3(V)	Motorized	9	flange	L128;φ101.5	IP 67F.L.O	HD
22	150	1.2	640*480 12μm	≥81.3%	2.9(H)×2.2(V)	Motorized	9	flange	L165.1;φ159	IP 67F.L.O	DLC
SXGA 12μm Series											
23	25	1.0	1280*1024 12μm	≥83.2%	35.3(H)×28.2(V)	Athermalized	9	M34×0.5	L52;φ41	IP 67F.L.O	DLC
24	35	1.0	1280*1024 12μm	≥87.6%	25.1(H)×20.1(V)	Athermalized	9	M34×0.5	L42.5;φ41.1	IP 67	HD
25	55	1.0	1280*1024 12μm	≥87.0%	16.0(H)×12.8(V)	Athermalized	9	M34×0.5	L62;φ59.7	IP 67	HD
26	75	1.0	1280*1024 12μm	≥87.6%	11.7(H)×9.4(V)	Athermalized	9	M45×0.75	L82.5;φ79.4	IP 67	HD
QVGA 17μm Series											
27	4.4	1.0	384*288 17μm	≥84.8%	90.0(H)×65.3(V)	Athermalized	7	M25×0.5	L29.2;φ30.4	IP 67	DLC
28	6.4	1.0	384*288 17μm	≥87.9%	60.0(H)×43.8(V)	Athermalized	7.08	M34×0.75	L18.5;φ22.8	IP 67	HD

Contact us for more IR solutions.

NO.	f (mm)	F#	Sensor	Transmission @8-12μm	Fov(°)	Focus	M.B.F.L (mm)	Mount	Dimensions (mm)	Sealing	Front Lens Coating
29	7.5	1.0	384*288 17μm	≥89.0%	51.3(H)×37.9(V)	Athermalized	9.5	M34×0.5	L42;φ34.9	IP 67	AR
30	9.7	1.0	384*288 17μm	≥88.6%	37.5(H)×28.5(V)	Athermalized	7	M25×0.5	L19;φ34	IP 67	HD
31	13	1.0	384*288 17μm	≥90.0%	28.4(H)×21.4(V)	Athermalized	6.1	M17×0.75	L14.9;φ20	IP 54	HD
32	15	1.0	384*288 17μm	≥89.0%	24.3(H)×18.4(V)	Athermalized	8.5	M34×0.75	L18.5;φ34	IP 67	HD
33	50	1.0	384*288 17μm	≥87.0%	7.4(H)×5.6(V)	Athermalized	7.75	M45×1	L53;φ64	IP 67	HD
34	75	1.0	384*288 17μm	≥86.7%	5.0(H)×3.7(V)	Athermalized	8.5	M34×0.75	L78.1;φ101	IP 67	HD
35	100	1.2	384*288 17μm	≥86.9%	3.7(H)×2.8(V)	Athermalized	8.5	M34×0.75	L101;φ101	IP 67	HD
VGA 17μm Series											
36	5.8	1.0	640*480 17μm	≥83.0%	92.4(H)×73.5(V)	Athermalized	9	M46×0.75	L49.5;φ59	IP 67	DLC
37	7.5	1.0	640*480 17μm	≥84.0%	91.2(H)×65.4(V)	Athermalized	9.5	M34×0.5	L42;φ34.9	IP 67	DLC
38	9	1.0	640*480 17μm	≥88.5%	72.8(H)×53.4(V)	Athermalized	4.5	M25×0.5	L32.7;φ33	IP 54	AR
39	9	1.2	640*480 17μm	≥85.0%	73.0(H)×53.5(V)	Athermalized	9.7	M24×0.5	L20.6;φ25.12	IP 67	DLC
40	13	1.0	640*480 17μm	≥83.1%	48.9(H)×36.3(V)	Athermalized	9.5	M34×0.5	L26;φ34.9	IP 67	DLC
41	15	1.0	640*480 17μm	≥85.0%	42.4(H)×31.5(V)	Athermalized	7.75	M45×1	L34.7;φ45	IP 67	DLC
42	19	1.0	640*480 17μm	≥86.4%	32.1(H)×24.3(V)	Athermalized	9	M30×0.75	L22;φ32	IP 67	HD
43	19	1.2	640*480 17μm	≥87.4%	32.1(H)×23.3(V)	Athermalized	9.7	M24×0.5	L18.8;φ25.12	IP 67	HD
44	25	1.0	640*480 17μm	≥86.0%	24.6(H)×18.5(V)	Athermalized	9.5	M34×0.5	L32;φ39	IP 67	HD
45	35	1.0	640*480 17μm	≥86.0%	17.9(H)×13.4(V)	Athermalized	9.5	M34×0.5	L42;φ43	IP 67	HD
46	35	1.2	640*480 17μm	≥87.2%	17.6(H)×13.3(V)	Athermalized	9.6	M34×0.5	L34.9;φ37	IP 67	HD
47	50	1.0	640*480 17μm	≥86.0%	12.3(H)×9.3(V)	Athermalized	9.5	M34×0.5	L51.5;φ66	IP 67	HD
48	50	1.2	640*480 17μm	≥87.4%	12.3(H)×9.3(V)	Athermalized	8	M34×0.75	L52;φ43.8	IP 67	HD
49	60	1.0	640*480 17μm	≥87.2%	10.3(H)×7.8(V)	Athermalized	9.5	M34×0.5	L74.5;φ89	IP 67	HD
50	60	1.2	640*480 17μm	≥87.0%	10.2(H)×7.7(V)	Athermalized	9.6	M34×0.5	L59.3;φ56.4	IP 67	HD
51	75	1.2	640*480 17μm	≥86.0%	8.2(H)×6.2(V)	Athermalized	9.5	M34×0.5	L71;φ76	IP 67	HD
52	100	1.2	640*480 17μm	≥86.0%	6.2(H)×4.7(V)	Athermalized	9.5	M34×0.5	L100;φ98	IP 67	HD
53	2.6	1.4	640*480 17μm	≥85.0%	180(H)×146(V)	Maunal	8	M34×0.5	L36.1;φ46	IP 54	AR
54	25	1.0	640*480 17μm	≥85.0%	24.9(H)×18.7(V)	Motorized	9	M45×1	L52.6;φ65	IP 67F.L.O	DLC
55	50	1.0	640*480 17μm	≥88.0%	12.4(H)×9.3(V)	Motorized	9	M45×1	L72.5;φ64	IP 67F.L.O	DLC
56	75	1.0	640*480 17μm	≥86.8%	8.3(H)×6.2(V)	Motorized	9.25	M45×1	L101.75;φ115	IP 67F.L.O	DLC
57	100	1.2	640*480 17μm	≥87.4%	6.2(H)×4.7(V)	Motorized	9.25	M45×1	L122.75;φ95.8	IP 67F.L.O	DLC
58	150	1.0	640*480 17μm	≥85.5%	4.1(H)×3.1(V)	Motorized	7.61	flange	L211.4;φ189	IP 67F.L.O	DLC
59	15-75	1.2	640*480 12μm	≥84.7%	f15=29.9(H)×22.1(V) f75=5.8(H)×4.4(V)	Continuous Zoom	9.7	flange	L67.6;φ34.9	IP 67F.L.O	HD
60	f20-f100	0.8-1.1	640*480 12μm 640*480 17μm	≥80.6%	f20=22.5(H)×16.7(V) 32.6(H)×24.0(V) f100=4.4(H)×3.3(V) 6.2(H)×4.7(V)	Continuous Zoom	9	flange	L369.45;φ160	IP 67F.L.O	DLC
61	f30-f150	0.85-1.2	640*480 12μm 640*480 17μm	≥80.6%	f30=14.7(H)×11.0(V) 20.8(H)×15.6(V) f150=2.9(H)×2.2(V) 4.1(H)×3.1(V)	Continuous Zoom	9	flange	L214.75;φ187	IP 67F.L.O	DLC
62	f36-f180	0.86-1.2	640*480 17μm	≥80.7%	f36=17.4(H)×13.0(V) f180=3.4(H)×2.6(V)	Continuous Zoom	9.25	M45×1	L249.5;φ186	IP 67F.L.O	DLC
63	f25-f225	0.95-1.5	640*480 17μm	≥66.7%	f25=25.3(H)×20.1(V) f225=2.8(H)×2.2(V)	Continuous Zoom	12	flange	L270.9;φ200	IP 67F.L.O	DLC