

# Infrared Security Catalog 2021

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 range from **3mm to 650mm**.
- **Wide field** for search and small field for position.
- Provide **customized solutions** for infrared security lens.
- **Operability** in high temperatures and the toughest environments.

NO.	f (mm)	F#	Sensor	Transmission @8~12μm	Fov(*)	Focus	M.B.F.L (mm)	Mount	Dimensions (mm)	Sealing	Front Lens Coating
<b>QVGA 12μm Series</b>											
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	3.2	1.1	256*192 12μm	≥94.6%	56.0 (H) x42.2 (V)	Athermalized	2.575	M9×0.25	L31,Φ9	IP 67	AR
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	9.7	1.1	384*288 12μm	≥90.0%	27.4 (H) x20.5 (V)	Athermalized	5.06	M17×0.5	L15,Φ17	IP 67	HD
11	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
<b>VGA 12μm Series</b>											
12	4.9	1.0	640*480 12μm	≥90.5%	95.0(H)×69.3(V)	Athermalized	5.13	M24×0.5	L30.8;Φ32	IP 67	AR
13	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
14	13.5	1.0	640*480 12μm	≥90.4%	32.0(H)×24.2(V)	Athermalized	7.5	M25×0.5	L14.05;Φ26	IP 54	AR
15	19	1.0	640*480 12μm	≥87.2%	22.9(H)×17.3(V)	Athermalized	9	M25×0.5	L20,Φ28	IP 67	HD
16	25	1.0	640*480 12μm	≥87.2%	17.4(H)×13.1(V)	Athermalized	9	M25×0.5	L26,Φ35	IP 67	HD
17	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
18	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
19	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
20	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
21	50	1.0	640*480 12μm	≥87.6%	8.8(H)×6.6(V)	Motorized	/	flange	L83.65;Φ82	IP 67F.L.O	DLC
22	75	1.0	640*480 12μm	≥90.1%	5.9(H)×4.4(V)	Motorized	9	flange	L104,Φ102	IP 67	HD
23	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
24	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
<b>SXGA 12μm Series</b>											
25	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
26	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
27	55	1.0	1280*1024 12μm	≥87.6%	15.8(H)×12.7(V)	Athermalized	9	M34×0.5	L57,Φ60.4	IP 67	HD
28	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
<b>QVGA 17μm Series</b>											
29	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
30	6.6	1.0	384*288 17μm	≥84.0%	60.0(H)×43.8(V)	Athermalized	7.75	M45×1	L25,Φ45	IP 67	DLC
31	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
32	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
33	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

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NO.	f (mm)	F#	Sensor	Transmission @8~12μm	Fov(°)	Focus	M.B.F.L (mm)	Mount	Dimensions (mm)	Sealing	Front Lens Coating
34	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
35	50	1.0	384*288 17μm	≥87.0%	7.4(H)×5.6(V)	Athermalized	7.75	M45×1	L53,Φ64	IP 67	HD
36	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
37	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
<b>VGA 17μm Series</b>											
38	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
39	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
40	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
41	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
42	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
43	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
44	19	1.0	640*480 17μm	≥86.4%	32.1(H)×24.3(V)	Athermalized	9	M30×0.75	L22,Φ32	IP 67	HD
45	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
46	25	1.0	640*480 17μm	≥86.0%	24.8(H)×18.5(V)	Athermalized	9.5	M34×0.5	L32,Φ39	IP 67	HD
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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
55	2.6	1.4	640*480 17μm	≥85.0%	180(H)×146(V)	Maunal	8	M34×0.5	L36.1,Φ46	IP 54	AR
56	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
57	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
58	75	1.0	640*480 17μm	≥88.0%	8.3(H)×6.2(V)	Motorized	9	M45×1	L106,Φ109	IP 67F.L.O	DLC
59	100	1.0	640*480 17μm	≥88.0%	6.2(H)×4.7(V)	Motorized	9	M45×1	L146.9,Φ112.4	IP 67F.L.O	DLC
60	100	1.2	640*480 17μm	≥88.0%	6.2(H)×4.7(V)	Motorized	9	M45×1	L125,Φ115	IP 67F.L.O	DLC
61	150	1.0	640*480 17μm	≥85.0%	4.2(H)×3.1(V)	Motorized	9	M45×1	L210,Φ189	IP 67F.L.O	DLC
62	f20-f100	0.8-1.1	10*480 12μm 640*480 17μ	≥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
63	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
64	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
65	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

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