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
QVGA 12μm Series											
1	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
2	6.7	1.2	256*192 12μm	≥95.4%	27.4(H)×20.6(V)	Athermalized	4.8	M17×0.5	L10.6;Φ17	IP 67	AR
3	2.3	1.2	256*192 12μm	≥93.8%	90(H)×62.5V)	Athermalized	4.8	M17×0.75	L9.4;Φ15	IP 67	AR
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	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
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	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
9	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
10	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	1.0	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	640*480 12μm	≥87.7%	48.4 (H) x38.9 (V)	Athermalized	6	M15×0.5	L10.41;Φ15.8	IP 67	HD
12	9.1	1.0	640*480 12μm	≥90.0%	50.0(H)×37.0(V)	Athermalized	5.13	M24×0.5	L27.5;Φ35	IP 67	AR
13	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
14	19	1.0	640*480 12μm	≥87.2%	22.9(H)×17.3(V)	Athermalized	9	M25×0.5	L20;Φ28	IP 67	HD
15	25	1.0	640*480 12μm	≥87.2%	17.4(H)×13.1(V)	Athermalized	9	M25×0.5	L26;Φ35	IP 67	HD
16	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
17	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
18	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
19	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
20	50	1.0	640*480 12μm	≥87.6%	8.8(H)×6.6(V)	Motorized	/	flange	L83.65;Φ82	IP 67F.L.O	DLC
21	75	1.0	640*480 12μm	≥90.1%	5.9(H)×4.4(V)	Motorized	9	flange	L104;Φ102	IP 67	HD
22	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
23	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
XVGA 12μm Series											
24	10	1.2	1280*1024 12μm	≥85.8%	76.4(H)×63.3(V)	Athermalized	9	M34×0.5	L47;Φ45.14	IP 67	DLC
25	19	1.0	1280*1024 12μm	≥83.2%	46.4(H)×37.1(V)	Athermalized	9	M34×0.5	L42;Φ59.9	IP 67	DLC
26	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
27	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
28	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
29	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
30	f25- f75	0.95-1.2	1024*768 14μm 1280*1024 12μm	≥82.6%	f25=33.4(H)×24.9(V)/ 35.9(H)×28.5(V) f75=10.8(H)×8.1(V)/ 11.5(H)×9.3(V)	Motorized	5	flange	L128.5;Φ78	IP 67F.L.O	HD

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Tel:+86 574 6250 0571 E-mail:sunnyIR@sunyoptical.com Mobile:+86 13484232379

NO.	f(mm)	F#	Sensor	Transmission @8~12μm	Fov(°)	Focus	M.B.F.L (mm)	Mount	Dimensions (mm)	Sealing	Front Lens Coating
QVGA 17μm Series											
31	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
32	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
33	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
34	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
35	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
36	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
37	50	1.0	384*288 17μm	≥87.0%	7.4(H)×5.6(V)	Athermalized	7.75	M45×1	L53;Φ64	IP 67	HD
38	75	1.0	384*288 17μm	≥86.70%	5.0(H)×3.7(V)	Athermalized	8.5	M34×0.75	L78.1;Φ101	IP 67	HD
39	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											
40	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
41	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
42	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
43	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
44	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
45	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
46	19	1.0	640*480 17μm	≥86.4%	32.1(H)×24.3(V)	Athermalized	9	M30×0.75	L22;Φ32	IP 67	HD
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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
55	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
56	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
57	2.6	1.4	640*480 17μm	≥85.0%	180(H)×146(V)	Maunal	8	M34×0.5	L36.1;Φ46	IP 54	AR
58	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
59	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
60	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
61	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
62	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
63	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
64	f20- f100	0.8-1.1	l0*480 12μm640*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
65	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
66	f36-f180	0.86-1.2	640*480 17μm	≥80.7%	f36=17.4(H)x13.0(V) f180=3.4(H)x2.6(V)	Continuous Zoom	9.25	M45×1	L249.5;Φ186	IP 67F.L.O	DLC
67	f25-f225	0.95~1.5	640*480 17μm	≥66.7%	f25=25.3(H)x20.1(V) f225=2.8(H)x2.2(V)	Continuous Zoom	12	flange	L270.9;Φ200	IP 67F.L.O	DLC

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Tel:+86 574 6250 0571 E-mail:sunnyIR@sunyoptical.com Mobile:+86 13484232379