

OUTDOOR SPORTS CATALOG 2023

*Ideal for wilderness survival, wildlife
observation, hiking, mountaineering,
cross-country driving etc*



SUNNY
INFRARED OPTICS

Infrared Outdoor Sports Catalog 2023

Sunny Infrared Optics provides the ultra-light weight consumer electronics solutions in various segments: wilderness survival, wildlife observation, hiking, mountaineering, cross-country driving etc.

We can deliver a full range type of consumer electronics thermal imaging lenses, including manual lenses, athermalized lenses etc. These lenses can ideal for various FPA formats up to VGA, they also have the feature of competitive cost, mass production and compact design.



- Light and compact Design.
- Shock resistance: 1000g 1ms.
- Substitute Chalcogenide for GE to lower the cost.
- Optical axis consistency: Boresight accuracy within 1 pixels.

NO.	f (mm)	F#	Sensor	Transmission @8~12μm	Fov(°)	Focus	M.B.F.L (mm)	Mount	Dimensions (mm)	Sealing	Front Lens Coating
QVGA 12μm /17μm Series											
1	13	1.0	384×288 12μm 320×240 17μm	≥90.2%	17.1(H) ×12.9(V) 28.8(H) ×21.7(V)	Athermalized	6.3	M17×0.75	L14.7;Φ26	IP 67	HD
2	15	1.0	384×288 12μm 384×288 17μm	≥85.0%	17.4(H) ×13.1(V) 24.3(H) ×18.4(V)	Athermalized	7.75	M45×1	L25;Φ45	IP 67	HD
3	19	1.0	384×288 12μm 384×288 17μm	≥89.6%	13.9(H)×10.4(V) 19.6(H)×14.7(V)	Athermalized	8.2	M25×0.75	L25;Φ28	IP 67	AR
4	25	1.0	384×288 12μm 384×288 17μm	≥90.2%	10.5(H)×7.9(V) 14.8(H)×11.1(V)	Athermalized	8.5	M28×0.75	L32.7;Φ32.1	IP 67	HD
5	35	1.0	384×288 12μm 384×288 17μm	≥89.9%	7.5(H)×5.7(V) 10.7(H)×8.0(V)	Athermalized	8.5	M31×0.75	L38.7;Φ40.4	IP 67	HD
7	25	1.0	384×288 12μm 384×288 17μm	≥88.5%	2.3(H)×7.9(V) 14.7(H)×11.1(V)	Maunal	10	flange	L39.5;Φ51.4	IP 67	DLC
8	35	1.0	384×288 12μm 384×288 17μm	≥88.2%	7.5(H)×5.6(V) 10.5(H)×7.9(V)	Maunal	9.6	flange	L39.5;Φ49.2	IP 67	DLC
9	35	1.0	384×288 12μm 384×288 17μm	≥88.0%	7.5(H)×5.6(V) 10.7(H)×8.0(V)	Maunal	8	M33×0.75	L44;Φ45	IP 67	DLC
10	35	1.0	384×288 12μm 384×288 17μm	≥89.9%	7.5(H)×5.6(V) 10.6(H)×8.0(V)	Maunal	10.46	flange	L43.6;Φ45.1	IP 67	HD
11	35	1.2	384×288 12μm 384×288 17μm	≥92.6%	7.5(H)×5.7(V) 10.7(H)×8.0(V)	Maunal	7	M47×1	L41.5;Φ47	IP 54	AR
12	50	1.2	384×288 17μm 640×480 12μm	≥91.6%	7.5(H) ×5.6(V) 8.8(H) ×6.6(V)	Maunal	2.8	M47×1	L61.5;Φ52	IP 67	AR
13	50	1.2	384×288 12μm 384×288 17μm 640×480 17μm	≥91.6%	5.3(H)×4.0(V) 7.5(H)×5.6(V) 12.4(H)×9.9(V)	Maunal	2.8	M47×1	L61.5;Φ52	IP 67	DLC
14	50	1.1	384×288 12μm 384×288 17μm 640×480 12μm	≥87.3%	5.3(H) ×4.0(V) 7.5(H) ×5.6(V) 8.7(H)×7.0(V)	Maunal	2.52	flange	L59.8;Φ60	IP 67	DLC
15	50	1.0	384×288 12μm 384×288 17μm	≥87.1%	5.3(H)×4.0(V) 7.4(H)×5.6(V)	Maunal	12.21	flange	L54.9;Φ60.8	IP 67	DLC
VGA 12μm/17μm Series											
16	25	1.0	640×480 12μm 640×480 17μm	≥87.2%	17.4(H) ×13.1(V) 24.4(H) ×18.5(V)	Athermalized	7.5	M33×0.75	L40;Φ43	IP 67	HD
17	35	1.0	640×480 12μm 640×480 17μm	≥87.6%	12.5(H) ×9.4(V) 17.5(H) ×13.2(V)	Maunal	11.2	flange	L39.5;Φ51.4	IP 67	DLC
18	35	1.0	640×480 12μm 640×480 17μm	≥87.5%	12.6(H)×9.4(V) 17.8(H)×14.2(V)	Maunal	7.5	M33×0.75	L44.5;Φ45	IP 67	DLC
19	35	1.0	384×288 12μm 384×288 17μm	≥89.9%	7.5(H)×5.6(V) 10.6(H)×8.0(V)	Maunal	10.46	flange	L43.6;Φ45.1	IP 67	HD
20	35	1.0	640×480 12μm	≥90.0%	12.6(H)×10.1(V)	Maunal	4.82	flange	L47.9;Φ46	IP 67	DLC
21	35	1.2	640×480 12μm 640×480 17μm	≥92.6%	12.7(H)×9.4(V) 17.8(H)×13.3(V)	Maunal	7	M47×1	L41.5;Φ47	IP 54	AR
22	50	1.0	640×480 12μm	≥87.1%	8.7(H)×6.6(V)	Maunal	12.21	flange	L54.9;Φ60.8	IP 67	DLC
23	50	1.2	640×480 12μm 640×480 17μm	≥87.6%	8.8(H)×6.6(V) 12.4(H)×9.3(V)	Maunal	13.65	M31×0.75	L55.4;Φ46	IP 67	DLC
24	50	1.1	640×480 12μm 640×480 17μm	≥87.3%	8.7(H)×7.0(V) 12.3(H)×9.9(V)	Maunal	2.52	flange	L59.8;Φ60	IP 67	DLC
25	19/38	0.9/1.2	640×480 12μm	≥82.1%	f19 : 23.7(H)×17.6(V) f38 : 11.5(H)×8.7(V)	Maunal	12	flange	L50.8;Φ46	IP 67F.L.O	DLC
26	25/50	0.88/1.1	640×480 12μm	≥85.9%	f25 : 17.8(H)×13.3(V) f50 : 8.7(H)×6.6(V)	Maunal	14.78	flange	L58;Φ51.6	IP 67F.L.O	HD