

If there is a product you need in the product list, you can enter the homepage and search.

Tel: +82-70-7605-1652

Fax: +82-70-7605-0020

E-mail: ashton@fresnelfactory.com

# Fresnel Factory



## © Circle Fresnel lens

### ► Common Fresnel Lens

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	Thickness(mm)	Material
1	FL06-12	Ø12	6	0.4	2	Poly visible
2	FL12-24	Ø24	12	0.3	2	Poly visible
3	FL16-30	Ø30	16	0.5	2	Poly visible
4	FL28-45	Ø45	28	0.3	2	Poly visible
5	FL35-115	115*140	35	0.3	2	Poly visible
6	FL40-100	Ø100	40	0.3	2	Poly visible
7	FL50-100	Ø100	50	0.3	2	Poly visible
8	FL55-120	Ø120	55	0.3	2	Poly visible
9	FL63-90	Ø90	63	0.3	2	Poly visible
10	FL63-110	Ø110	63	0.3	2	Poly visible
11	FL70-100	Ø100	70	0.3	2	Poly visible
12	FL74-210	Ø210	74	0.3	2	Poly visible
13	FL80-160	Ø160	83	0.5	2	Poly visible
14	FL90-114	114*80	90	0.3	2	Poly visible
15	FL90-150	Ø150	90	0.5	2	Poly visible
16	FL100-180	Ø180	100	0.3	2	Poly visible
17	FL100-200	200*170	100	0.3	2	Poly visible
18	FL100-230	230*230	100	0.5	2	Poly visible
19	FL120-200	Ø200	120	0.3	2	Poly visible
20	FL120-210	Ø210	120	0.5	2	Poly visible
21	FL130-140	140*100	130	0.3	2	Poly visible
22	FL135-120	120x100	135	0.3	2	Poly visible
23	FL135-230	Ø230	135	0.5	2	Poly visible
24	FL140-130	Ø130	140	0.3	2	Poly visible
25	FL140-150	Ø150	140	0.3	2	Poly visible
26	FL140-250	Ø250	140	0.5	2	Poly visible
27	FL148-120	120x90	148	0.3	2	Poly visible
28	FL156-240	Ø240	156	0.3	2	Poly visible
29	FL160-130	Ø130	160	0.3	2	Poly visible
30	FL170-220	Ø220	170	0.3	2	Poly visible
31	FL170-240	240*180	170	0.3	2	Poly visible
32	FL170-140	140*100	170	0.3	2	Poly visible
33	FL185-230	Ø230	185	0.3	2	Poly visible
34	FL185-240	Ø240	185	0.5	2	Poly visible
35	FL200-100	Ø100	200	0.1	2	Poly visible
36	FL200-285	Ø285	200	0.5	2	Poly visible
37	FL210-160	Ø160	210	0.3	2	Poly visible
38	FL210-230	230*230	210	0.5	2	Poly visible
39	FL220-220	220x170	220	0.5	2	Poly visible
40	FL220-300	Ø300	220	0.3	2	Poly visible
41	FL235-300	Ø300	235	0.5	2	Poly visible
42	FL250-240	Ø240	250	0.5	2	Poly visible
43	FL260-160	Ø160	260	0.3	2	Poly visible
44	FL310-230	230x170	310	0.3	2	Poly visible
45	FL326-180	Ø180	326	0.3	2	Poly visible
46	FL330-395	395*395	330	0.5	2	Poly visible
47	FL370-230	Ø230	370	0.5	2	Poly visible

If there is a product you need in the product list, you can enter the homepage and search.

48	FL400-300	Ø300	400	0.3	2	Poly visible
49	FL457-260	260*210	457	0.2	2	Poly visible
50	FL500-510	510*300	500	0.125	2	Poly visible
51	FL510-375	375*260	510	0.5	2	Poly visible
52	FL600-300	300*300	600	0.5	2	Poly visible
53	FL600-320	Ø320	600	0.5	2	Poly visible
54	FL630-431	431*401	630	0.5	2	Poly visible
55	FL700-780	780*780	700	0.2	2	Poly visible
56	FL900-300	Ø300	900	0.3	2	Poly visible
57	FL1000-256	Ø256	1000	0.5	2	Poly visible
58	FL2000-300	Ø300	2000	0.3	2	Poly visible

► **Minus Focus Fresnel Lens**

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	Thickness(mm)	Material
1	FLM300-240	240*240	-300	0.5	2	Poly visible
2	FLM220-300	300*300	-220	0.5	2	Poly visible
3	FLM170-180	Ø180	-170	0.3	2	Poly visible
4	FLM330-300	300*300	-330	0.5	2	Poly visible
5	FLM140-180	Ø180	-140	0.3	2	Poly visible
6	FLM05-150	150*100	-5	0.5	2	Poly visible

◎ **Cylindrical Fresnel lens**

► **Linear Fresnel Lens**

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	Thickness(mm)	Material
1	FLL12-30	30*800	12	0.3	2	Poly visible
2	FLL15-40	40*800	15	0.5	2	Poly visible
3	FLL18-50	50*800	18	0.5	2	Poly visible
4	FLL25-65	65*800	25	0.5	2	Poly visible
5	FLL30-80	80*800	30	0.5	2	Poly visible
6	FLL40-110	110*800	40	0.5	2	Poly visible
7	FLL50-30	30*800	50	0.5	2	Poly visible
8	FLL60-150	150*800	60	0.5	2	Poly visible
9	FLL70-200	200*800	70	0.5	2	Poly visible
10	FLL80-200	200*800	80	0.5	2	Poly visible
11	FLL90-200	200*800	90	0.5	2	Poly visible
12	FLL100-200	200*800	100	0.5	2	Poly visible
13	FLL150-50	50*800	150	0.5	2	Poly visible

◎ **MLA, Lenticular Fresnel lens**

► **Array Fresnel Lens**

No.	Model No.	Size H x L (mm)	Focal Length (mm)	lens array size(mm)	Thickness(mm)	Material
1	FM08-684	684*385.34	8.028	426*240 lens array	5	Poly visible
2	FM29-679	679.77*380.97	29.88	91*51 lens array	5	Poly visible
3	LS200MK	482*298		11.6*10.8	5	Poly visible
4	FML32-3030	30*30	0.0321	0.023	0.3	
5	FML15-1008	10.68*8.28		0.012*0.012	0.3	

► **Lenticular Fresnel lens**

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	Thickness(mm)	Material
1	LT051-15	800*600	2.069	0.54	1.5	Poly visible
2	LT147-186	1452*832		1.47	1.86	Poly visible
3	LT127-039	1500*---		1.27	0.39	
4	LT127-034	1500*---		1.27	0.34	
5	LT635-027	1500*---		0.635	0.27	

► **VR Fresnel lens**

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	Thickness(mm)	Material
1	VR80-50	Ø50	80	0.3	2	Poly visible
2	VR90-70	70*70	90	0.3	2	Poly visible

► **Prism Fresnel lens**

No.	Model No.	Size H x L (mm)	Groove Pitch(mm)	Angle(°)	Thickness(mm)	Material
1	LPV60-400	400*400	0.6		1.5	Poly visible
2	LPV60-300	300*300	0.6		1.86	Poly visible
3	LPD105-300	300*300	400/38.4		0.39	Poly visible
4	LPD67-226	226*150	0...8/0.201		0.34	Poly visible
5	LPD83-250	250*250	2.28		0.27	Poly visible
6	LPV9050F				0.27	Poly visible

If there is a product you need in the product list, you can enter the homepage and search.

## © CPV and Large Fresnel lens

[PDF for product image and drawing](#)

### ► Large Fresnel Lens

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	thickness	Material
1	CP1300-1100	1100x1100	1300	0.5	5	Poly visible
2	LF890-813	812.8x812.8	890	0.5	5	Poly visible
3	LF1000-1100	1100*1100	1000	0.5	5	Poly visible
4	LF700-780	780x780	700	0.2	5	Poly visible

### ► Condenser Fresnel Lens(PMMA material)

[PDF for product image and drawing](#)

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	thickness	Material
1	CP300-230	238x238	300	0.5	5	Poly visible
2	CP330-280	280x280	330	0.5	5	Poly visible
3	CP220-280	280*280	220	0.5	5	Poly visible
4	CP250-270	270*250	250	1	5	Poly visible
5	CP182-235	235*235	182	0.5	5	Poly visible
6	CP350-300	310x310	350	1	5	Poly visible
7	CP350-330C	340x340	350	1	5	Poly visible
8	CP265-25249	268*249	265	1	5	Poly visible
9	CP265-250	Ø240	265	0.5	5	Poly visible
10	CP406-260	Ø250	406	0.5	5	Poly visible
11	CP450-230	Ø200	450	0.5	5	Poly visible

### ► Condenser Fresnel Lens(Silicone-Glass materials)

[PDF for product image and drawing](#)

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	thickness	Material
1	CG1300-1010	1010x1010 (per 244x244mm)	1300		4	Glass+Poly visible
2	CG93.5-830	830x630 (per 50x50mm)	93.5		4	Glass+Poly visible

## © Flat wide angle mirror

[PDF for product image and drawing](#)

### ► Reflecting Wide-Angle Lens

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	thickness	Material
1	RN350-40	60x40	350	0.3	2	Poly visible
2	RN350-44	44x29	350	0.35	2	Poly visible
3	RN280-38	117.8x37.8	280	0.3	2	Poly visible
4	RN350-54	54x35	350	0.35	2	Poly visible
5	RN350-53	84.5x53.6	350	0.3	2	Poly visible
6	RN350-30	64.5x29.5	350	0.35	2	Poly visible
7	RN350-47	74x47	350	0.3	2	Poly visible
8	RN350-B47	74x47 , Ø30	350	0.35	2	Poly visible
9	RT350-49	65.3x49.5	350	0.3	2	Poly visible
10	RT350-R49	65.3x49.5	350	0.3	2	Poly visible
11	RP390-283	283x283	390	0.4	2	Poly visible
12	RN145-298	298x298	145	0.5	2	Poly visible
13	RP375-292	292x292	375	0.4	2	Poly visible
14	RN145-280	280x280	145	0.4	2	Poly visible

### ► Reversing The Wide-Angle Mirror

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	thickness	Material
1	PR350-199	252x199	350	0.3	2	Poly visible(PMMA)
2	8200QT	96*42	350	0.3	2	Poly visible(PMMA)
3	8200QT-half	96*32	350	0.3	2	Poly visible(PMMA)
4	PR150-45	150*45	750		2	Poly visible(PMMA)
5	PR200-45	200*45	750		2	Poly visible(PMMA)

## © LED Light

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Groove Pitch(mm)	etc.	Material
1	LS18-03	Ø38	18	0.3		Poly visible
2	LM20-01B	Ø162	20	0.1	Ø30, 21 array	Poly visible
3	LM20-01M	Ø162	20	0.1	Ø30, 11 array	Poly visible
4	LM20-01S	Ø162	20	0.1	Ø30, 7 array	Poly visible
5	LM20-01V	Ø210	20	0.1	Ø42, 7 array Ø35, 6 array Ø45, 6 array	Poly visible
6	LS21-03	Ø38	21	0.3		Poly visible
7	LM24-026	Ø62	24	0.26		Poly visible
8	LM24-03	152.3x152.3	24	0.3	Ø52, 6 array	Poly visible
9	LS2605-02	Ø44.8	26.5	0.2		Poly visible
10	LS2705-05	Ø51	27.5	0.5		Poly visible
11	LS35-05	Ø52	35	0.5		Poly visible
12	LS35-05D	Ø80	35	0.5		Poly visible



If there is a product you need in the product list, you can enter the homepage and search.

13	LM35-05	44x42	35	0.5		Poly visible
14	LM35-05B	100.5x51.5	35	0.5	Ø50, 2 array	Poly visible
15	LS52-04	26.5x19.5	52	0.4		Poly visible
16	LM6704-025		67.4/134.8	0.25		Poly visible
17	LM83-025	Ø268.5	83/125	0.25		Poly visible
18	LS90-125	(64+125)x90	90	0.5		Poly visible
19	LS90-155	(58+155)x100	90	0.5		Poly visible
20	LS120-75	75.5x75.5	120	0.3		Poly visible
21	LS120-138	138x120	120	0.3		Poly visible
22	LS120-170	Ø170	120	0.3		Poly visible
23	LS120-200	Ø200	120	0.3		Poly visible
24	LS130-147	Ø147	130	0.3		Poly visible
25	LS135-88	Ø88	135	0.3		Poly visible
26	LS135-155	(59+155)x100	135	0.3		Poly visible
27	LS140-88	(22+88)x72	140	0.5		Poly visible
28	LS140-198	Ø198	140	0.5		Poly visible
29	LS140-165	Ø165	140	0.3		Poly visible
30	LS140-200	Ø200	140	0.3		Poly visible
31	LS150-035	Ø298	150	0.35		Poly visible
32	LS150-035S	84.2x57	150	0.35		Poly visible
33	LS170-198	Ø198	170	0.3		Poly visible
34	LS185-198	Ø198	185	0.3		Poly visible
35	LS185-200	Ø200	185	0.3		Poly visible
36	LM185-155	155x85	185	0.3	85x77.5 , 2 array	Poly visible
37	LS200-205	Ø205	200	0.5		Poly visible
38	LS200-115	115x115 , Ø150	200	0.3		Poly visible
39	LS200-260	Ø260	200	0.5		Poly visible
40	LS210-196	Ø196	210	0.5		Poly visible
41	LS210-252	252x137	210	0.5		Poly visible
42	LS220-196	Ø196	220	0.3		Poly visible
43	LS220-197	Ø197.5	220	0.3		Poly visible
44	LS230-150	Ø150	230	0.5		Poly visible
45	LS230-180	Ø180	230	0.5		Poly visible
46	LS235-205	Ø205	235	0.5		Poly visible
47	LS235-250	Ø250	235	0.5		Poly visible
48	LS235-260	Ø260	235	0.5		Poly visible
49	LS240-180	Ø180	240	0.5		Poly visible
50	LS326-250	Ø250	326	0.5		Poly visible
51	LS406-240	Ø240	406	0.5		Poly visible
52	LS600-310	Ø310	600	0.5		Poly visible
53	LM12-266	Ø266	12		Ø12,288 array	Poly visible

## ©PIR Lens Cab

PDF for product image and drawing

No.	Model No.	Lens diameter(mm)	Focal Length (mm)	Detectable distance(m)	Detectable angle	Material
1	PD55-14006	Ø13.6	5.5	6	140	Poly FIR200
2	PD60-12008	Ø12.7	6	8	120	Poly FIR200
3	PD105-10010S	23.4*23.4	10.5	10	100	Poly FIR200
4	PF08-10B	Ø12	8	10	30	Poly FIR200
5	PF20-10WS	Ø20	20	10	30	Poly FIR200
6	PF28-10W	Ø20	28	10	30	Poly FIR200
7	PF36-10W	Ø20	36	10	30	Poly FIR200
8	PF20-10W	Ø22.3	20	10	30	Poly FIR200
9	PD15-14006	Ø28	15	6	140	Poly FIR200
10	PD15-36007	Ø49	15	7	360	Poly FIR200
11	PD105-10010	Ø23.4	10.5	10	100	Poly FIR200
12	PF30-12012C	43.2*19.7	30	12	120	Poly FIR200
13	PF30-12012S	46*20	30	12	120	Poly FIR200
14	PF20-06015	Ø35	20	15	60	Poly FIR200
15	PF297-79810	58x45	29.7	10	79.8	Poly FIR200
16	PF30-12012P	59.5x39	30	12	120	Poly FIR200
17	PF30-12012	59.5x39	30	12	120	Poly FIR200
18	PF31-12012	52*60	31	12	120	Poly FIR200
19	PD06-12005	Ø16	6	5	120	Poly FIR200
20	PF03-3025	Ø17	19	16	30	Poly FIR200
21	PD75-12005		7.5	5	120	Poly FIR200
22	PD75-12005A	Ø21.71	7.5	5	120	Poly FIR200
23	PD75-12005B	Ø19.77	7.5	5	120	Poly FIR200
24	PD75-12005C	Ø19	7.5	5	120	Poly FIR200
25	PD06-12002B	Ø13.34	6	2	120	Poly FIR200
26	PD12-12010	24*24	12	10	120	Poly FIR200
27	PF20-10	Ø22	20	10	60	Poly FIR200
28	PD15-36010P	Ø41.5	15	10	360	Poly FIR200
29	PD15-36010	Ø43	15	10	360	Poly FIR200
30	PD05-12005	Ø11.8	5	5	120	Poly FIR200
31	PD09-12008	Ø17.8	9	8	120	Poly FIR200

If there is a product you need in the product list, you can enter the homepage and search.

33	PF28	Ø19.05	28.7	10	60	Poly FIR200
34	PD116-12010	Ø23.3	11.65	10	120	Poly FIR200
35	PF305-9012	60.7*42.4	30.5	12	90	Poly FIR200
36	PF23-11012	56.7*35.7	23	12	110	Poly FIR200
37	PF305-8324	61*42.7	30.5	24	83	Poly FIR200
38	PF22-10010	57*36	22	10	100	Poly FIR200
39	PF20-8907	39*25	20	7	89	Poly FIR200
40	PD30-0000		30			Poly FIR200
41	PD175-36005	Ø45	17.5	5	360	Poly FIR200
42	PD15-36005A	Ø44.5	15	5	360	Poly FIR200
43	PD105-10005	Ø22.7	10.5	5	100	Poly FIR200
44	PD12-11612	Ø23.5	12	12	116	Poly FIR200
45	PD50-12008	Ø100	50	8	120	Poly FIR200
46	PD15-12010	Ø35.7	15	10	120	Poly FIR200
47	PF297-79810R	56.8x44.6	29.7	10	79.8	Poly FIR200
48	PD105-10010F	23.3x23.3	10.5	10	100	Poly FIR200
49	PF25-12012	92.3*40	25	12	120	Poly FIR200
50	PF25-9010	53.5*34	25	10	90	Poly FIR200
51	PD06-12008	Ø14	6	8	120	Poly FIR200
53	PF16-12012	62*25	16	12	120	Poly FIR200
54	PD05-9005	Ø17	5	5	90	Poly FIR200
55	PF23-6020	39*25	23	20	60	Poly FIR200
56	PD11-12010	Ø23	11	10	120	Poly FIR200
57	PD15-36005B	Ø44.5	15	5	360	Poly FIR200
58	PD96-8010	Ø12.5	9.6	10	80	Poly FIR200
59	PF20-3027		20	27	30	Poly FIR200
60	PD23-6020	35*25	23	20	60	Poly FIR200
61	PF21-12015P	76*36	21	15	120	Poly FIR200
62	PD25-10007	34.9*20	25	7	100	Poly FIR200
63	PD12-11607	Ø23.9	12	7	116	Poly FIR200
64	PD115-12010	Ø26	11.5	10	120	Poly FIR200
65	PD06-6005	Ø11.5	6	5	60	Poly FIR200
66	PD076-9005	Ø20.7	7.6	5	90	Poly FIR200
67	PD03-12005	Ø9.5	3	5	120	Poly FIR200
68	PD04-6005	Ø10.1	8	5	60	Poly FIR200
69	PD04-7004	18.7*18.7	4	5	70	Poly FIR200
70	PD08-6003B	26*10	8	3	60	Poly FIR200
71	FD08-10005	23*23	8	5	100	Poly FIR200
72	FD08-110AP	30.8*17.9	8	12	110	Poly FIR200
73	PD09-12008_wall mount	Ø17.8	9	8	120	Poly FIR200
74	PD50-12008	Ø100	50	8	120	Poly FIR200
75	PD_1	64.8*59.7				Poly FIR200
76	PD30-36010	Ø76.58	30	10	360	Poly FIR200
77	PD115-12010_HAT	Ø26	11.5	10	120	Poly FIR200
78	PF63-10	Ø10	6.3	2	26	Poly FIR200

► **Sensor**

No.	Model No.	Size H x L (mm)	Element size	Field of View(°)	Pins	etc.
1	BS412	Ø9.1	2*1, 2 elements	65	3	
2	RE200GE	Ø9.2	3*1, 2 elements	X: 138; Y: 125	3	
3	SBG446-671	Ø9.2	1.0*1.0, 4elements	132	3	
4	LHI878	Ø9.2	2*1, 2 elements	95	3	

© **Cheap card Fresnel lens**

No.	Model No.	Size H x L (mm)	Magnification	Thickness(mm)	Material	etc.
1	MFL90-70	70*70	2	0.4	Poly PVC	
2	MFL13-95	80*51	2	0.4	Poly PVC	
3	MFL90-70	95*135	2	0.4	Poly PVC	
4	MFL900-80	Ø80	2	0.4	Poly PVC	

© **NIR,FIR Fresnel lens**

No.	Model No.	Size H x L (mm)	Focal Length (mm)	Transmittance rate	Thickness(mm)	Material
1	FIR05-01	Ø8.2	5		0.6	Poly FIR25
2	FIR00-02	Ø10.2	0	41.96%	0.6	Poly FIR25
3	FIR00-03	Ø10.2	0	32.70%	0.6	Poly FIR25
4	FIR05-04	Ø8.2	5		0.6	Poly FIR25
5	FIR00-95	95*95	0		0.5	Poly FIR25
6	NF26-25	Ø25	26		1.5	Poly NIR212
7	NF26-10	Ø10	26		1.5	Poly NIR212

If there is a product you need in the product list, you can enter the homepage and search.

## © Optical Film

### ► Solis film

No.	Model No.	Width(mm)	Length(mm)	Thickness(um)	Material	etc.
1	SL5034	1050	1000	195um	PET	
2	SL3402	1050	1000	195um	PET	
3	SL4060	1050	1000	195um	PET	
4	SL4660	1050	1000	195um	PET	

Please send Email to [ashton@fresnelfactory.com](mailto:ashton@fresnelfactory.com)

Optical designing and tooling a mold according to customer's needs is always welcome for us.

Visit [FresnelFactory.com](http://FresnelFactory.com) for purchasing product

# Fresnel Factory

**POLY MATERIALS**  
Special engineered polymers, such as PMMA, PC, PE, PET for optics. Infrared, Visible and UV-light purpose

**CAPACITIES**  
Optical design, mold design, manufacturing facilities and Quality check

**PRODUCTION METHODS**  
Heat compression, Injection, Roll-to-Roll, Casting

**MOLD TOOLING**  
Ultra-precision Tip radius, high-quality lens surface tooling for sheet mold, insert core and drum mold