



---


## F-Theta Lens Catalog

### Pre-engineered F Theta

Part Number	Effective Focal Length	Flange Focal Distance	Scan Length (mm)	Max Scan Area (mm)	Scan Angle	Incident Light Dia (Micron)	Interface
SO-F-355-1	160.2	189.3	139.7	98.8x98.8	±25.0	7	M85x1
SO-F-355-2	161	208.3	140.5	99.3x99.3	±25	7	M85x1
SO-F-355-3	254.7	365.8	240.4	170.0x170.0	±27.3	10	M85x1
SO-F-332-1	99.5	131.8	61.5	58x58	±17.7	8	M39x1
SO-F-332-4	94	98.7	82	58x58	±25	6	M85x1
SO-F-332-4	94	98.2	82	54.4x54.4	±25	6	M85x1
SO-F-332-5	100.2	195.8	77	98.4x98.4	±22	15	M85x1
SO-F-332-6	159.6	184.2	139.2	98.4x98.4	±25	10	M85x1
SO-F-332-7	159.6	183.7	139.2	154.4x154.4	±25	10	M85x1
SO-F-332-8	250.2	337.1	218.4	111x111	±25	20	M39x1
SO-F-332-9	154	303.5	156.9	203.6x203.6	±117.7	8	M85x1
SO-F-332-10	329.9	438.3	287.9	203.6x203.6	±25	14	M85x1
SO-F-332-11	329.9	437.2	287.9	290.2x290.2	±25	14	M85x1
SO-F-332-12	419.9	545	410.4	290.2x290.2	±28	15	M85x1
SO-F-332-13	634.6	833.8	564.9	399.4x399.4	±25.5	20	D106
SO-F-1064-1	99.9	130.3	61.7	43.6x43.6	±17.7	8	M39x1
SO-F-1064-2	160.3	184.4	139.9	98.9x98.9	±25	12	M85x1
SO-F-1064-3	254.4	344.8	222	157x157	±25	20	M85x1

 : [www.shanghai-optics.com](http://www.shanghai-optics.com)

 : [rfq@shanghai-optics.com](mailto:rfq@shanghai-optics.com)


 : 732-321-6915

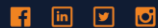
### In-Stock F-Theta Lens

F-theta Lens	Wavelength	EFL	Scanning Width	Pupil Diameter	Scanning Angle	Telecentric Angle	Interface	Flange Distance	Working Distance	M1-M2	M2-Lens Center	M2-Threaded End	Focal Spot Diameter
SO-FT-200-330	343nm	330	200*200	14	±24.7	4	M85×1	712.04	441.54	16.42	24.88	51.5	14.6-15
SO-FT-200-370	343nm	370	200*200	14	±22.5	7	M85×1	687.38	527.34	17	33	41	16.0-18.0
SO-FT-070-100	355nm	100	70*70	12	±28.8	4	M85×1	186.91	123.41	13	23.95	37.51	20-58
SO-FT-006-032	355nm	32	6*6	10	±7.6	4	M85×1	32.21	28.2	13	14.3	47.99	2.10-2.14
SO-FT-008-032	355nm	32	8*8	10	±10.2	4	M39×1	60.3	19.3	13	13.5	22.22	2.2-2.5
SO-FT-020-050	355nm	50	20*20	5	±16.5	3	M55×1	81.29	28.19	18.6	19.1	41.9	6.4-6.9
SO-FT-018-056	355nm	56	18*18	6	±15	4	M85×1	88.84	73.84	18	19.5	34.4	4.0-6.0
SO-FT-018-060	355nm	60	18*18	6	±12.3	4	M55×1	84.51	62.61	13	18.5	21.92	4.5-5.0
SO-FT-035-080	355nm	80	35*35	6	±19	3	M55×1	155.56	104.46	13	17	32.13	8.5-9.0
SO-FT-035-100	355nm	100	35*35	10	±14.4	4	M55×1	203.47	131.95	16	33.27	32.6	6.56-7.18
SO-FT-060-100	355nm	100	60*60	6	±25	4	M85×1	192.9	143.3	20	19	55.1	14-30
SO-FT-050-103	355nm	103	50*50	9	±20.2	2.5	M85×1	179	135.8	14	23.55	47	7.0-8.0
SO-FT-063-109	355nm	109	63*63	6	±24.2	16	M85×1	228.4	146.3	13	31.59	41.57	11.0-17.0
SO-FT-090-163	355nm	163	90*90	10	±25	4.3	M85×1	301.56	221.7	16	33	45.7	9.72-15.6
SO-FT-090-163	355nm	163	90*90	10	±25	4	M85×1	313.81	217.81	16	33	39.7	10.0-13.5
SO-FT-100-170	355nm	170	100*100	10	±25	5	M85×1	318.9	238.1	13	17.5	42.5	11.0-13.0
SO-FT-160-360	355nm	360	160*160	10	±18.5	0.5	M85×1	729.9	440.7	13	29.5	41	23.0-24.0
SO-FT-030-055	405nm	55	30*30	6	±16	4	M55×1	113.47	59.47	10	13.87	20.5	6.8-10.4

 : [www.shanghai-optics.com](http://www.shanghai-optics.com)


 : [rfq@shanghai-optics.com](mailto:rfq@shanghai-optics.com)

 : 732-321-6915




### In-Stock F-Theta Lens

F-theta Lens	Wavelength	EFL	Scanning Width	Pupil Diameter	Scanning Angle	Telecentric Angle	Interface	Flange Distance	Working Distance	M1-M2	M2-Lens Center	M2-Threaded End	Focal Spot Diameter
SO-FT-030-080	515nm	80	30*30	12	±15.6	1.7	M55×1	169.32	80.6	16	22.87	24	6.4-7.0
SO-FT-140-200	515nm	200	140*140	10	±28.9	1	M85×1	427.4	263.9	16	26	70.37	19.6-20.6
SO-FT-015-058	532nm	58	15*15	10	±10.4	4	M55×1	87.19	52.64	20	18	44.45	4.0-5.0
SO-FT-036-100	532nm	100	36*36	16	±14.6	1.2	M55×1/M85×1	160.09	114.66	13.69	24	60.07	6.0-6.2
SO-FT-040-100	532nm	100	40*40	10	±25	1	M85×1	190.8	135.76	13.69	23.16	40	8.7-8.8
SO-FT-053-100	532nm	100	53*53	15	±29.2	3.2	M85×1	175.6	127.43	18	25	35.9	7.0-10.0
SO-FT-070-100	532nm	100	70*70	10	±25	3	M85×1	205.18	125.18	13	37.4	29.53	10.0-14.0
SO-FT-070-100	532nm	100	70*70	14	±29.2	3	M85×1	189.03	93.03	16.42	40	32.55	7.0-11.6
SO-FT-060-105	532nm	105	60*60	10	±23.5	3	M85×1	198.76	129.1	24	20	40.14	8.0-11.0
SO-FT-070-125	532nm	125	70*70	15	±25	2	M85×1	234.24	161.78	19.4	26	45.8	7.0-7.0
SO-FT-060-150	532nm	150	60*60	15	±17	3	—	204.54	79.5	22.11	33.44	90	9.6-10.0
SO-FT-075-163	532nm	163	75*75	10	±18.9	1.3	M85×1	302.3	167.2	30	28	47.18	16.0-17.0
SO-FT-090-163	532nm	163	90*90	10	±25	4.8	M85×1	297.2	219.5	16	19.5	37.8	16.0-20.0
SO-FT-140-200	532nm	200	140*140	10	±28.9	1	M85×1/M143×2	427.4	263.9	16	26	70.37	19.6-20.6
SO-FT-075-160	532nm	160	75*75	10	±19.1	3	M85×1	298.5	212	13	35.5	40.47	19.0-19.0
SO-FT-010-056	1064nm	56	10*10	20	±7.2	1	M55×1	88.87	23.87	26	28.74	40.99	5-11

 : [www.shanghai-optics.com](http://www.shanghai-optics.com)

 : [rfq@shanghai-optics.com](mailto:rfq@shanghai-optics.com)

 : 732-321-6915




### In-Stock F-Theta Lens

F-theta Lens	Wavelength	EFL	Scanning Width	Pupil Diameter	Scanning Angle	Telecentric Angle	Interface	Flange Distance	Working Distance	M1-M2	M2-Lens Center	M2-Threaded End	Focal Spot Diameter
SO-FT-050-100	1064nm	100	50*50	10	±21	3	M85×1	202.11	126.11	20	18	44.27	17-19
SO-FT-120-210	980nm	210	120*120	20	±4	3	M184×0.75	435	—	16.4	20	22.41	—
SO-FT-018-056	1064nm	56	18*18	10	±13.3	1	M55×1/M39*1	85.64	59.35	20	19	37.21	7.6-9
SO-FT-020-056	1064nm	56	20*20	10	±13	2.6	M85×1	79.85	59.85	20	19	36.87	8.5-11.5
SO-FT-020-082	1064nm	82	20*20	15	±10	3	M85×1	176.03	85.03	26	26	31.67	10.0-11.0
SO-FT-050-100	1064nm	100	50*50	10	±21	1.9	M85×1	202.11	126.11	20	18	44.27	19.0-21.0
SO-FT-050-100	1064nm	100	50*50	15	±21.3	3	M85×1	251	131	25.6	23.64	30.6	13-20
SO-FT-055-100	1064nm	100	55*55	15	±25	3	M85×1	189.51	120.79	20	32	39.74	13-20
SO-FT-060-107	1064nm	107	60*60	10	±23.6	1.7	M79×1	229	135.68	12.54	35.73	22.41	20.0-21.0
SO-FT-069-108	1064nm	108	69*69	12	±27	1.7	M85×1	207.46	131.19	16	38.81	42.63	17.4-19.0
SO-FT-050-109	1064nm	109	50*50	14	±19.3	2.6	M85×1	236.35	147.35	17	28	51	25.0-30.0
SO-FT-050-115	1064nm	115	50*50	14	±18.11	2.6	M85×1	205.76	81.26	19.24	37	45	15.4-16.8
SO-FT-050-115	1064nm	115	50*50	14	±18.11	2.6	M85×1	205.76	81.26	19.24	37	45	15.4-16.8
SO-FT-070-125	1064nm	125	70*70	15	±25	2	M85×1	234.37	162.11	19.4	26	45.8	12-15

 : [www.shanghai-optics.com](http://www.shanghai-optics.com)

 : [rfq@shanghai-optics.com](mailto:rfq@shanghai-optics.com)


 : 732-321-6915

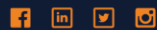
### In-Stock F-Theta Lens

F-theta Lens	Wavelength	EFL	Scanning Width	Pupil Diameter	Scanning Angle	Telecentric Angle	Interface	Flange Distance	Working Distance	M1-M2	M2-Lens Center	M2-Threaded End	Focal Spot Diameter
SO-FT-073-163	1064nm	163	73*73	10	±19	0.95	M85×1	324.71	193.4	16	50.3	47.84	22-23.5
SO-FT-090-163	1064nm	163	90*90	15	±25	5.6	M85×1	282.3	209.6	16	30	39.4	25.0-40.0
SO-FT-090-163	1064nm	163	90*90	15	±23	4.5	M85×1	299.86	211.06	16	22.3	40.9	21.0-25.0
SO-FT-080-180	1064nm	180	80*80	10	±25	2.6	M85×1	335.03	259.43	14	33	58	35.0-40.0
SO-FT-090-190	1064nm	190	90*90	18	±14	1	M85×1	337.38	166.38	20	20	41.04	22.0-31.0
SO-FT-037-100	1064nm	100	37*37	25	±15.3	1.4	M85×1	205.39	70.16	36	29	34.8	7.0-9.0
SO-FT-126-216	1064nm	216	126*126	15	±23.6	1	---	97.79	298	21	33	127.81	30.0-31.0
SO-FT-140-220	1064nm	220	140*140	15	±25	1	M100×1	479.7	289.9	16	29.02	59.25	28-29
SO-FT-150-420	1064nm	420	150*150	14	±20	5	M85×1	794.44	636.44	16.5	35	40	50.0-52.0
SO-FT-050-210	1064nm	210	50*50	25	±8.8	1	M85×1	---	---	40	25	48	16.4-18.1
SO-FT-082-150	9.4um	150	82*82	20	±22	3	4-M5	---	135.84	26.4	32.5	29.76	145-148
SO-FT-009-040	9.4um	40	9*9	14	±9	3	M80*1	121.92	36.18	17	29.79	15.67	48.0-50.0
SO-FT-082-150	9.4um	150	82*82	20	±22	3	4-M5	91	146.04	26.4	29	45.5	145-148
SO-FT-050-075	9.4um	75	50*50	14	±27.8	2.8	M85×1	131.95	68.95	28	24.1	31.6	92.0-96.0
SO-FT-071-115	9.4um	115	71*71	20	±25	3	---	85.3	114.5	29.3	27.5	43.2	99-101

 : [www.shanghai-optics.com](http://www.shanghai-optics.com)

 : [rfq@shanghai-optics.com](mailto:rfq@shanghai-optics.com)

 : 732-321-6915




### In-Stock F-Theta Lens

F-theta Lens	Wavelength	EFL	Scanning Width	Pupil Diameter	Scanning Angle	Telecentric Angle	Interface	Flange Distance	Working Distance	M1-M2	M2-Lens Center	M2-Threaded End	Focal Spot Diameter
SO-FT-070-120	9.4um	120	70*70	20	±24	3	M85×1	200.36	111	25.6	33.91	31.8	106-120
SO-FT-065-100	9.4um	100	65*65	20	±27.1	3	M85×1	191.2	100.9	28	44.07	25	86.0-90.0
SO-FT-050-075	9.4um	75	50*50	20	±28	2.8	M85×1	133.29	70.23	28	26	31.61	64.0-85.0
SO-FT-050-100	9.4um	100	50*50	20	±20.5	3	M85×1	174.53	106.03	26.4	22.46	43	87.0-88.0
SO-FT-070-140	9.4um	140	70*70	15	±20.5	1.6	M85×1	217.83	88.33	20	25	49.19	165-169
SO-FT-050-100	9.4um	100	50*50	20	±20.8	2.7	M85×1	187.84	118.84	25.6	36.465	30.6	85.0-87.0
SO-FT-120-160	9.4um	160	120*120	17.5	±31.4	1.6	M85×1	314.35	130.35	25.6	41.5	30.4	156-165
SO-FT-050-100	9.4um	100	50*50	15	±25	3	M85×1	174.6	106.1	20	25	40.54	129-131
SO-FT-070-140	9.6um	140	70*70	15	±20.5	1.6	M85×1	129.5	88.33	20	25	49.19	165-169
SO-FT-050-100	10.6um	100	50*50	25	±20.5	3	---	---	106.1	20	20	33.04	54.2-60.5
SO-FT-037-100	9.4um	100	37*37	25	±15	3	M60×1	195.28	104.18	30.3	23.96	29	69.0-70.0
SO-FT-050-100	10.6um	100	50*50	15	±21	2	M85×1	188.81	108.72	18.5	43.55	41	126-131
SO-FT-050-100	10.6um	100	50*50	15	±20.6	3	M85×1	186.7	127.8	18.5	43.4	41	128.2-129.6
SO-FT-030-052	9.4um	52	30*30	20	±21.8	4.5	M85×1	75.87	32.26	25.52	32.11	28.49	45.0-52.0

 : [www.shanghai-optics.com](http://www.shanghai-optics.com)

 : [rfq@shanghai-optics.com](mailto:rfq@shanghai-optics.com)

 : 732-321-6915

