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SUPER SONIC HOUSE, Plot No. C-10/5-6, Soma Kanji Estate-2, (SK-2),
Near Sosyo Circle, Opp. Sanidev Temple, Udhna Magdalla Road,
Surat (Gujarat) India - 395007 | www.supersonicgroup.in
For Enquiry Contact : +91 261 2634263, 95124 51510
e-mail : supersonichouse06@gmail.com

远心扫描透镜/Telecentric F-theta Lenses

远心扫描透镜是经过特殊设计的镜头，可以使聚焦光束的主光线在任何视场角的情况下都垂直于焦平面，可有效减小聚焦光斑的畸变和钻孔角度。

主要应用：广泛应用于精密激光打标和钻孔中。

目前我司研发和生产的远心扫描透镜覆盖波段为：9.3um, 10.6um, 1030-1080nm, 532nm, 355nm, 266nm.

The telecentric-f-theta lens is a specially designed f-theta lens, which can make the main light of the focused beam perpendicular to the focal plane at any angle, and can effectively reduce the distortion of the focus spot and the drilling angle.

Main application: the telecentric f-theta lenses are widely used in precision laser marking and drilling systems.

The wavelength of telecentric f-theta lenses we developed and produced includes : 9.3um, 10.6um, 1030-1080nm, 532nm, 355nm, 266nm.



9.3 μm

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	Thread
JG-TSL-9.3-100-50-14	100	50x50	14	128.00	22	M85x1
JG-TSL-9.3-120-70-10	120	70x70	10	137.40	25	M85x1

10.6 μm

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	Thread
JG-TSL-10.6-106-50	106	50x50	10	131.40	20	M85x1
JG-TSL-10.6-159-69	159	89x89	10	177.00	20	M85x1
JG-TSL-10.6-75-50	75	50X50	10	87.30	25	M85x1
JG-TSL-10.6-100-50	100	50x50	20	124.50	22	M85x1
JG-TSL-10.6-100-50	100	50x50	14	124.50	22	M85x1

1030-1080nm

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	Thread
JG-TSL-1064-40-10Q	40	10x10	9	43.00	12.5	M55x1/M39x1
JG-TSL-1064-82-20Q	82	20x20	15	84.70	10	M85x1
JG-TSL-1064-100-35Q	100	35x35	10	130.00	15	M85x1
JG-TSL-1064-100-50Q	100	50x50	10	137.60	20	M85x1
JG-TSL-1064-125-50Q	125	50x50	15	158.90	17	M85x1
JG-TSL-1064-260-140Q	260	140x140	30	359.00	20	M112x1
JG-TSL-1064-160-100Q	160	100x100	10	215.00	25	M85x1
JG-TSL-1064-240-120Q	240	120x120	14	337.60	21	M85x1

532nm

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	Thread
JG-TSL-532-100-50	100	50x50	10	144.00	20	M85x1
JG-TSL-532-100-35Q	100	35x35	10	130.20	15	M85x1
JG-TSL-532-160-100Q	160	100x100	10	212.00	10	M85x1
JG-TSL-532-210-140	210	140x140	10	264.80	25	M85x1
JG-TSL-532-254-175	254	175x175	25	292.60	25	M85x1
JG-TSL-532-180-105Q	180	105x105	10	243.00	25	M85x1
JG-TSL-532-32-10Q	32	10x10	10	31.50	25	M85x1
JG-TSL-532-125-65Q	105	65x65	10	166.20	25	M85x1

355nm

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	Thread
JG-TSL-355-35-12Q	35	12x12	7	42.00	15	M39x1/M85x1
JG-TSL-355-100-50Q	100	50x50	10	132.00	25	M85x1
JG-TSL-355-125-53Q	125	53x53	10	160.00	25	M85x1
JG-TSL-355-110-60Q	110	60x60	10	151.00	25	M85x1
JG-TSL-355-115-63Q	115	63x63	8	123.50	25	M85x1
JG-TSL-355-160-100Q	160	100x100	10	169.40	25	M85x1
JG-TSL-355-290-140Q	290	140x140	10	335.70	20	M85x1
JG-TSL-355-103-50Q	103	50x50	10	143.00	20	M85x1
JG-TSL-355-78-35Q	78	35x35	10	93.70	25	M85x1
JG-TSL-355-320-160Q	320	160x160	10	467.00	25	M85x1

266nm

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	螺纹接口
Part No	Focus Length (mm)	Scan Field (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	Thread
JG-TSL-266-54-20	54	20x20	6	72.00	16	M85x1
JG-TSL-266-96-50	96	50x50	5	134.50	22	M85x1
JG-TSL-266-163-70	163	70x70	10	217.90	18	M85x1

扫描透镜/场镜 / F-theta Lenses

f-theta扫描透镜又称场镜，平场聚焦镜或线性镜头，它的像高等于焦距乘以扫描角 ($y=f*\theta$)。

区别于一般聚焦镜会将光斑集中于一点，扫描透镜是将激光束分散到扫描区域或工件上的多个点，将激光束在整个打标平面内形成大小均匀的聚焦光斑。

主要应用：广泛用于打标、雕刻、钻孔、切割等。

F-thetalensis also called flat field focusing lens or the linear lens.

Its image height is equal to the focal length multiplied by the scan

angle($y=f*\theta$). While general focusing lenses deliver a focused spot

to only one point, they deliver a focused spot to many points on a scan field or work piece.

Main application:

they are commonly used in laser engraving, cutting, marking systems, etc.



9.3um 单片式场镜 Single-element F-theta Lens:

产品编码	镜片直径	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Lens Diameter (mm)	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL1-9.3-75-50-12	48	75	50x50	12	75.9	25	16.00	M85x1
JG-SL1-9.3-100-70-12	48	100	70x70	12	107.4	25	16.00	M85x1
JG-SL1-9.3-150-110-12	48	150	110x110	12	152.7	25	16.00	M85x1
JG-SL1-9.3-200-140-12	48	200	140x140	12	204.3	25	16.00	M85x1
JG-SL1-9.3-250-175-12	48	250	175x175	12	256.0	25	16.00	M85x1
JG-SL1-9.3-300-210-12	48	300	210x210	12	300.0	25	16.00	M85x1
JG-SL1-9.3-350-250-12	48	350	250x250	12	369.2	25	16.00	M85x1
JG-SL1-9.3-430-300-12	48	430	300x300	12	444.0	25	16.00	M85x1
JG-SL1-9.3-570-400-20	65	570	400x400	20	585.0	25	25.25	M85x1

9.3um 双片式场镜 Double-element F-theta Len:

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL2-9.3-100-70-10	100	70x70	10	107.4	25.0	12.56	M85x1
JG-SL2-9.3-100-70-20	100	70x70	20	108.5	25.0	25.25	M85x1
JG-SL2-9.3-150-110-14	150	110x110	14	152.7	25.0	16.42	M85x1
JG-SL2-9.3-200-140-14	200	140x140	14	204.3	25.0	16.42	M85x1
JG-SL2-9.3-220-140-20	220	140x140	20	250.0	25.0	25.25	M85x1
JG-SL2-9.3-250-175-14	250	175x175	14	280.0	25.0	16.42	M85x1
JG-SL2-9.3-300-210-14	300	210x210	14	287.0	25.0	16.42	M85x1
JG-SL2-9.3-300-210-20	300	210x210	20	339.6	25.0	25.25	M85x1
JG-SL2-9.3-350-250-14	350	250x250	14	369.2	25.0	16.42	M85x1
JG-SL2-9.3-480-310-20	480	310x310	20	530.0	25.0	25.25	M85x1
JG-SL2-9.3-46-20-12	46	20x20	12	40.0	20.0	16	M85x1

10.6um 单片式场镜 Single Element F-theta Lens:

产品编码	镜片直径	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Lens Diameter (mm)	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL1-10.6-50-35-10	45	50	35x35	10	62.5	25	12.54	M85x1
JG-SL1-10.6-75-50-12	48	75	50x50	12	62.0	25	16.00	M85x1
JG-SL1-10.6-100-70-8	36	100	70x70	8	85.0	25	10.17	M85x1
JG-SL1-10.6-100-70-10	45	100	70x70	10	85.0	25	12.54	M85x1
JG-SL1-10.6-100-70-12	48	100	70x70	12	85.0	25	16.00	M85x1
JG-SL1-10.6-150-110-8	36	150	110x110	8	142.0	25	10.17	M85x1
JG-SL1-10.6-150-110-10	45	150	110x110	10	142.0	25	12.54	M85x1
JG-SL1-10.6-150-110-12	48	150	110x110	12	142.0	25	16.00	M85x1
JG-SL1-10.6-200-140-10	45	200	140x140	10	192.0	25	12.54	M85x1
JG-SL1-10.6-200-140-12	48	200	140x140	12	192.0	25	16.00	M85x1
JG-SL1-10.6-250-175-10	45	250	175x175	10	242.0	25	12.54	M85x1
JG-SL1-10.6-250-175-12	48	250	175x175	12	242.0	25	16.00	M85x1
JG-SL1-10.6-300-210-10	45	300	210x210	10	298.0	25	12.54	M85x1
JG-SL1-10.6-300-210-12	48	300	210x210	12	298.0	25	16.00	M85x1
JG-SL1-10.6-350-250-10	45	350	250x250	10	344.0	25	12.54	M85x1
JG-SL1-10.6-350-250-12	48	350	250x250	12	344.0	25	16.00	M85x1
JG-SL1-10.6-430-300-10	45	430	300x300	10	444.0	25	12.54	M85x1

10.6um 单片式场镜 Single Element F-theta Lens:

产品编码	镜片直径	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Lens Diameter (mm)	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL1-10.6-430-300-12	48	430	300x300	12	444.0	25	16.00	M85x1
JG-SL1-10.6-470-350-10	48	470	350x350	10	472.3	25	12.54	M85x1
JG-SL1-10.6-420-300-20	65	420	300x300	20	415.0	25	25.25	M85x1
JG-SL1-10.6-575-400-10	48	575	400x400	10	573.0	25	12.54	M85x1
JG-SL1-10.6-575-400-20	75	575	400x400	20	573.0	25	25.25	M85x1
JG-SL1-10.6-720-500-10	48	720	500x500	10	725.0	25	12.54	M85x1
JG-SL1-10.6-720-500-20	75	720	500x500	20	725.0	25	25.25	M85x1
JG-SL1-10.6-480-350-12	48	480	350x350	12	508.0	28	16.00	M85x1
JG-SL1-10.6-420-300-30	75	420	300x300	30	415.0	25	35.53	M85x1

10.6um 双片式场镜 Double Element F-theta Lens

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL2-10.6-100-70-12	100	70x70	12	113.5	25	16.00	M85x1
JG-SL2-10.6-150-110-14	150	110x110	14	190.0	25	16.42	M85x1
JG-SL2-10.6-200-140-14	200	140x140	14	203.5	25	16.42	M85x1
JG-SL2-10.6-220-140-20	220	140x140	20	253.0	25	25.25	M85x1
JG-SL2-10.6-250-175-14	250	175x175	14	258.0	25	16.42	M85x1
JG-SL2-10.6-250-175-20	250	175x175	20	272.0	25	25.25	M85x1
JG-SL2-10.6-300-210-14	300	210x210	14	352.0	25	16.42	M85x1
JG-SL2-10.6-300-210-20	300	210x210	20	352.0	25	25.25	M85x1
JG-SL2-10.6-360-250-14	360	250x250	14	393.0	25	16.42	M85x1
JG-SL2-10.6-420-300-14	420	300x300	14	466.0	25	16.42	M85x1
JG-SL2-10.6-480-300-20	480	300x300	20	533.0	25	25.25	M85x1
JG-SL2-10.6-490-350-14	490	350x350	14	535.0	25	16.42	M85x1
JG-SL2-10.6-560-400-30	560	400x400	30	605.0	25	35.53	M102x1
JG-SL2-10.6-700-500-30	700	500x500	30	765.0	25	35.53	M102x1
JG-SL2-10.6-420-310-30	420	310x310	30	483.2	29	35.53	M102x1
JG-SL2-10.6-170-110-14	170	110x110	14	185.0	25	16.42	M85x1

808nm 场镜 F-theta Lens

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-808-100-70	100	70x70	14	105	28	16.42	M85x1
JG-SL-808-160-110	160	110x110	14	172.9	28	16.42	M85x1
JG-SL-808-210-140	210	140x140	12	237	28	16	M85x1
JG-SL-808-254-175	254	175x175	12	278.4	28	16	M85x1
JG-SL-808-330-210	330	210x210	10	318.2	28	12.54	M85x1
JG-SL-808-420-300	420	300x300	10	472.1	28	12.54	M85x1

915nm 场镜 F-theta Lens

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-915-100-70-20	100	70x70	20	122.7	28	25.25	M85x1
JG-SL-915-170-100-20	170	100x100	20	203.5	28	25.25	M85x1
JG-SL-915-170-100Q-20	170	100x100	20	217.2	28	25.25	M85x1
JG-SL-915-254-150-20	254	150x150	20	263.5	28	25.25	M85x1
JG-SL-915-254-150Q-20	254	150x150	20	278.2	28	25.25	M85x1
JG-SL-915-330-180-20	330	180x180	20	319.3	28	25.25	M85x1
JG-SL-915-420-250-30	420	250x250	30	472.9	28	35.53	M85x1
JG-SL-915-420-200-30Q	420	200x200	30	514	25	35.53	M85x1
JG-SL-915-170-100-30	170	100x100	30	192.5	25	35.53	M85x1

980nm 场镜 F-theta Lens

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-980-100-70-10	100	70x70	10	121.8	28	12.54	M85x1
JG-SL-980-100-70-20	100	70x70	20	123.8	28	25.25	M85x1
JG-SL-980-120-80-20	120	80x80	20	148.4	28	25.25	M85x1
JG-SL-980-160-110-14	160	110x110	14	174.7	28	16.42	M85x1
JG-SL-980-170-100Q-20	170	100x100	20	219.1	28	25.25	M85x1
JG-SL-980-170-100-30	170	100x100	30	220.9	28	35.53	M85x1
JG-SL-980-254-175-12	254	175x175	12	279.3	28	16	M85x1
JG-SL-980-254-150Q-20	254	150x150	20	310	28	25.25	M85x1
JG-SL-980-254-150Q-30	254	150x150	30	299.5	28	35.53	M85x1
JG-SL-980-420-250-30	420	250x250	30	474.3	28	35.53	M85x1
JG-SL-980-650-410-30	650	410x410	30	560.6	28	35.53	M85x1
JG-SL-980-810-450-30	810	450x450	30	892.7	28	35.53	M85x1
JG-SL-980-400-200-20Q	400	200x200	20	478	25	25.25	M85x1

1064nm 场镜 F-theta Lens

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-1064-63-35	63	35x35	10	68.00	23	12.54	M85x1
JG-SL-1064-80-50	80	50x50	10	85.00	25	12.54	M85x1
JG-SL-1064-100-70	100	70x70	14	115.00	25	16.42	M85x1
JG-SL-1064-100-70B	100	70x70	10	105.00	25	12.54	M85x1
JG-SL-1064-100-70-16	100	70x70	16	106.00	25	20.00	M85x1
JG-SL-1064-163-110B	163	110x110	10	168.00	28	12.54	M85x1
JG-SL-1064-160-110	160	110x110	14	175.00	28	16.42	M85x1
JG-SL-1064-163-110-20A	163	110x110	20	168.00	25	25.25	M85x1
JG-SL-1064-210-150	210	150x150	10	240.00	25	12.54	M85x1
JG-SL-1064-210-150B	210	150x150	10	216.20	28	12.54	M85x1
JG-SL-1064-210-150-8B	210	150x150	8	216.00	25	10.17	M85x1
JG-SL-1064-210-150-12	210	150x150	12	240.10	28	16.00	M85x1
JG-SL-1064-220-150-16	220	150x150	16	241.20	28	20.00	M85x1
JG-SL-1064-254-175	254	175x175	10	285.00	28	12.54	M85x1

1064nm 场镜 F-theta Lens

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-1064-254-175B-10	254	175x175	10	255.00	28	12.54	M85x1
JG-SL-1064-254-175-16	254	175x175	16	289.00	28	20.00	M85x1
JG-SL-1064-290-200	290	200x200	10	343.00	28	12.54	M85x1
JG-SL-1064-290-200B	290	200x200	10	343.00	28	12.54	M85x1
JG-SL-1064-290-200-16	290	200x200	16	340.00	25	20.00	M85x1
JG-SL-1064-330-220	330	220x220	10	373.00	25	12.54	M85x1
JG-SL-1064-330-220B	330	220x220	10	373.00	25	12.54	M85x1
JG-SL-1064-330-220-16	330	220x220	16	373.00	28	20.00	M85x1
JG-SL-1064-380-250	380	250x250	10	390.00	28	12.54	M85x1
JG-SL-1064-420-300	420	300x300	16	420.00	28	20.00	M85x1
JG-SL-1064-420-300B	420	300x300	10	430.00	28	12.52	M85x1
JG-SL-1064-420-300-16	420	300x300	16	486.50	28	20.00	M85x1
JG-SL-1064-470-350	470	350x350	10	490.00	28	12.54	M85x1
JG-SL-1064-525-400	525	400x400	10	510.00	28	12.54	M85x1
JG-SL-1064-580-450	580	450x450	10	590.00	28	12.54	M85x1
JG-SL-1064-680-500	680	500x500	10	610.00	28	12.54	M85x1
JG-SL-1064-820-600	820	600x600	10	870.00	28	12.54	M85x1
JG-SL-1064-78-45	78	45x45	12	83.00	25	16.42	M85x1

1030-1080nm 场镜 Ftheta Lens

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	透镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-1064-100-70Q	100	70x70	10	120.80	28	12.54	M85x1
JG-SL-1064-160-100Q	160	100x100	10	200.00	28	12.54	M85x1
JG-SL-1064-210-150Q	210	150x150	10	260.00	28	12.54	M85x1
JG-SL-1064-254-175Q	254	175x175	10	280.60	28	12.56	M85x1
JG-SL-1064-254-175Q-14	254	175x175	14	314.00	25	16.42	M85x1
JG-SL-1064-254-175Q-20	254	175x175	20	310.00	20	25.25	M85x1
JG-SL-1064-330-220Q	330	220x220	12	363.00	28	16.00	M85x1
JG-SL-1064-420-300Q	420	300x300	12	473.00	28	16.00	M85x1
JG-SL-1064-580-450Q	580	450x450	12	603.00	28	16.00	M85x1
JG-SL-1064-160-110Q	160	110x110	10	200.00	25	12.54	M85x1
JG-SL-1064-470-350Q	470	350x350	10	535.00	25	12.54	M85x1
JG-SL-1064-170-110Q	170	110x110	14	206.00	25	16.42	M85x1
JG-SL-1064-290-200Q	290	200x200	10	340.70	25	12.54	M85x1
JG-SL-1064-525-400Q	525	400x400	10	587.20	25	12.54	M85x1
JG-SL-1064-650-410Q	650	410x410	20	582.70	25	25.25	M85x1

532nm

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	振镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-532-63-35	63	35x35	12	68	+/-23°	16	M85x1
JG-SL-532-85-55	85	55x55	14	98	+/-25°	16.42	M85x1
JG-SL-532-100-65	100	65x65	14	105	+/-25°	16.42	M85x1
JG-SL-532-160-110	160	110x110	14	178	+/-28°	16.42	M85x1
JG-SL-532-163-110-10Q	163	110x110	10	200	+/-25°	12.54	M85x1
JG-SL-532-210-150	210	150x150	16	242	+/-28°	20	M85x1
JG-SL-532-254-175	254	175x175	16	283	+/-25°	20	M85x1
JG-SL-532-254-175-10Q	254	175x175	10	302.5	+/-25°	12.54	M85x1
JG-SL-532-260-180	260	180x180	20	261	+/-28°	25.25	M85x1
JG-SL-532-300-200	300	200x200	16	305	+/-28°	20	M85x1
JG-SL-532-330-220	330	220x220	14	373	+/-25°	16.42	M85x1
JG-SL-532-420-300	420	300x300	16	430	+/-28°	20	M85x1
JG-SL-532-525-400	525	400x400	10	550	+/-28°	12.54	M85x1
JG-SL-532-580-450	580	450x450	10	590	+/-28°	12.54	M85x1
JG-SL-532-680-500	680	500x500	10	760	+/-28°	12.54	M85x1
JG-SL-532-640-470-10Q	640	470x470	10	702.6	+/-25°	12.54	M85x1
JG-SL-532-32-6-10	32	6x6	10	29.5	+/-28°	12.54	M85x1

355nm

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	振镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-355-100-70	100	70x70	10	135	25°	12.56	M85x1
JG-SL-355-130-90	130	90x90	8.5	165	25°	10.17	M55x1
JG-SL-355-160-110	160	110x110	10	218	25°	12.56	M85x1
JG-SL-355-210-150	210	150x150	10	255	25°	12.56	M85x1
JG-SL-355-250-155	250	155x155	10	260	25°	12.56	M85x1
JG-SL-355-254-175	254	175x175	10	305	25°	12.56	M85x1
JG-SL-355-290-200	290	200x200	10	350	25°	12.56	M85x1
JG-SL-355-330-220	330	220x220	10	400	25°	12.56	M85x1
JG-SL-355-420-350	420	300x300	10	520	25°	12.56	M85x1
JG-SL-355-470-350	470	350x350	10	561	28°	12.56	M85x1
JG-SL-355-580-400	580	400x400	14	670	25°	16.42	M85x1
JG-SL-355-750-500	750	500x500	16	824.7	28°	20	M85x1
JG-SL-355-840-600	840	600x600	18	1000	28°	23.2	M85x1
JG-SL-355-1090-700	1090	700x700	18	1250	28°	23.2	M85x1
JG-SL-355-1450-900	1450	900x900	14	1420.8	28°	16.42	M85x1
JG-SL-355-80-50	80	50x50	10	103	25°	12.54	M85x1

266nm

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	振镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-266-102-70	102	70x70	5	135	25	12.56	M85x1
JG-SL-266-163-100	163	100x100	6	205	25	12.56	M85x1
JG-SL-266-254-175	254	175x175	10				M85x1

消色差场镜 Achromatic f-theta lens

产品编码	焦距	扫描范围	入射光斑	工作距离	扫描角度	振镜间距	螺纹接口
Part No	Focus Length (mm)	Scan Area (mm)	Input Beam (mm)	Work Distance (mm)	Max. Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-ASL-1064-650-170-110	170	110x110	30	205.3	25°	35.53	M112x1
JG-ASL-1064-650-220-130	220	130x130	30	297.6	20°	35.53	M112x1
JG-ASL-1064-650-254-150	254	150x150	30	356.7	20°	35.53	M112x1
JG-ASL-1064-650-254-175	254	175x175	16	298.5	25°	35.53	M112x1
JG-ASL-355-650-170-110	170	110x110	14	206.4	25°	16.42	M85x1
JG-ASL-355-650-254-150	254	150x150	10	287.6	25°	12.54	M85x1
JG-ASL-355-650-120-50	120	50x50	10	77.1	20°	12.54	M85x1
JG-ASL-1064-650-170-80	170	80x80	14	170.2	25°	16.42	M85x1

焊接场镜/ F-theta lenses for laser welding machine

焊接聚焦镜/ Focusing lenses for laser welding machine

随着激光焊接技术的日益成熟和普及，特别是手持焊接技术的日益普及，我们开发了专用于激光焊接系统的场镜和聚焦镜。

As the laser welding technology becomes more and more mature and popular, especially the handheld welding machines are more and more popular, we have developed f-theta lenses and focusing lenses for laser welding system.

用于激光焊接系统的场镜，聚焦镜。

F-theta lens, focusing lens for laser welding system.



Airspaced focusing lens 焊接聚焦镜

产品编码	波长	焦距	工作距离
Part No	Wavelength	Focus Length (mm)	Work Distance (mm)
JG-LS-1064-77	1064nm	F=77	81
JG-LS-1064-80	1064nm	F=80	85
JG-LS-1064-110	1064nm	F=110	118
JG-LS-1064-150	1064nm	F=150	162
JG-LS-1064-200	1064nm	F=200	207
JG-LS-1064-250	1064nm	F=250	262

普通焊接场镜1064nm

产品编码	材料	焦距	扫描范围	入射光斑	工作距离	扫描角度	振镜间距	螺纹接口
Part No	Material	Focus Length (mm)	Scan Area (mm)	Input Beam Size (mm)	Work Distance (mm)	Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-1064-120-D30	Glass	120	70x70	30	147.2	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-170-D20	Glass	170	100x100	20	211.8	25°	25.25	M95x1
JG-SL-1064-170-D30	Glass	170	100x100	30	212.6	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-220-D20	Glass	220	140x140	20	251.5	25°	25.25	M95x1
JG-SL-1064-220-D30	Glass	220	140x140	30	256.2	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-254-D20	Glass	254	175x175	20	282.5	25°	25.25	M95x1
JG-SL-1064-254-D30	Glass	254	175x175	30	285.8	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-290-D20	Glass	290	200x200	20	355.2	25°	25.25	M95x1
JG-SL-1064-290-D30	Glass	290	200x200	30	357.9	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-330-D20	Glass	330	220x220	20	387.3	25°	25.25	M95x1
JG-SL-1064-330-D30	Glass	330	220x220	30	389.1	25°	35.53	M95xLM102xLM112x1

焊接高功率1064nm

产品编码	材料	焦距	扫描范围	入射光斑	工作距离	扫描角度	振镜间距	螺纹接口
Part No	Material	Focus Length (mm)	Scan Area (mm)	Input Beam Size (mm)	Work Distance (mm)	Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-1064-120Q-D30	fused silica	120	70x70	30	177.2	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-170Q-D20	fused silica	170	100x100	20	241.5	25°	25.25	M95x1
JG-SL-1064-170Q-D30	fused silica	170	100x100	30	242.3	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-220Q-D20	fused silica	220	140x140	20	281.8	25°	25.25	M95x1
JG-SL-1064-220Q-D30	fused silica	220	140x140	30	286.5	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-254Q-D20	fused silica	254	175x175	20	312.5	25°	25.25	M95x1
JG-SL-1064-254Q-D30	fused silica	254	175x175	30	315.5	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-290Q-D20	fused silica	290	200x200	20	385.2	25°	25.25	M95x1
JG-SL-1064-290Q-D30	fused silica	290	200x200	30	387.5	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-330Q-D20	fused silica	330	220x220	20	417.4	25°	25.25	M95x1
JG-SL-1064-330Q-D30	fused silica	330	220x220	30	419.3	25°	35.53	M95xLM102xLM112x1
JG-SL-1064-420Q-D30	fused silica	420	200x200	30	513.9	15°	35.35	M95x1
JG-SL-1064-80Q-D14	fused silica	80	40x40	14	90.3	25°	16.42	M95-2

光纤焊接石英水冷扫描透镜 1064nm Water Cooling F-theta Lens

产品编码	材料	焦距	扫描范围	入射光斑	工作距离	扫描角度	振镜间距	螺纹接口
Part No	Material	Focus Length (mm)	Scan Area (mm)	Input Beam Size (mm)	Work Distance (mm)	Scan Angle (degree)	M1/M2 Separation (mm)	Thread
JG-SL-1064-254-30QW	fused silica	254	130x130	30	310	20°	35.53	M102-1
JG-SL-1064-330-30QW	fused silica	330	140x140	30	412	25°	25.53	M102-1
JG-SL-1064-420-30QW	fused silica	420	220x220	30	514	25°	35.53	M95x1
JG-SL-1064-210-30QW	fused silica	210	90x90	30	274.6	25°	35.53	M102-1
JG-SL-1064-254-30QW	fused silica	254	100x100	30	310	20°	35.53	M102-1
JG-SL-1064-525-30QW	fused silica	525	260x260	30	642	20°	35.53	M102-1
JG-SL-1064-210-20QW	fused silica	210	90x90	20	289	25°	25.25	M95-1
JG-SL-1064-420-20QW	fused silica	420	260x260	20	502.2	25°	25.25	M95-1
JG-SL-1064-295-20QW	fused silica	295	130x130	20	313	20°	25.25	M95-1
JG-SL-1064-254-20QW	fused silica	254	130x130	20	309	20°	25.25	M102-1
JG-SL-1064-254-20QW-老款	fused silica	254	130x130	20	308	20°	25.25	M102-1
JG-SL-1064-420-260-20QW	fused silica	420	260x260	20	502	25°	25.25	M95-1

扩束镜 / Beam expanders

扩束镜是能够改变激光光束直径大小和发散角度的透镜组件。

其用途多种多样，如：

- 1.在激光加工应用中，扩束镜可以把激光器发出的具有一定的发散角度激光束变为准直（平行）光束，从而利用聚焦镜获得细小的高功率密度光斑；
- 2.在激光测距中，必须通过扩束镜最大限度地改善激光的准直度才能得到理想的远距离测量效果；
- 3.通过扩束镜能改变光束直径以便用于不同的光学仪器设备；
- 4.扩束镜配合空间滤光片使用，可以使非对称光束分布变为对称分布，并使光能量分布更加均匀。

A beam expander is an optical system consisting of two or more components. Beam expander changes the size and divergence of the beam. It can:

1. In laser processing applications, the beam expander can transform the laser beam with a certain divergence angle into a collimated (parallel) beam, thereby using the focusing lens to obtain a small high power density spot;
2. In laser ranging system, the beam expander can be used to maximize the collimation of the laser to obtain the ideal long-range measurement effect;
3. Beam expander can change the beam diameter for different optical instruments and equipment;
4. The combination of a spatial filter and a beam expander can make the asymmetric spot energy distribution symmetrical and make it more uniform.



9.3um

产品编码	放大倍数	入射孔径	出射孔径	外径	总长度	螺纹接口
Part No	Magnification	Input Beam (mm)	Output Beam (mm)	Diameter (mm)	Length (mm)	Thread
JG-BEX-9.3-2	2	12	17	25	33.00	M22x0.75
JG-BEX-9.3-2.5	2.5	10	20	25	60.00	M22x0.75
JG-BEX-9.3-3	3	10	15	25	60.00	M22x0.75
JG-BEX-9.3-4	4	10	18	25	65.00	M22x0.75
JG-BEX-9.3-5	5	10	23	25	70.00	M22x0.75
JG-BEX-9.3-6	6	10	26	32	60.00	M22x0.75
JG-BEX-9.3-8	8	13	30	36	72.00	M22x0.75
JG-BEX-9.3-10	10	10	35	44	121.00	M22x0.75
JG-BEX-9.3-12	12	10	35	44	114.00	M22x0.75
JG-BEX-9.3-15	15	10	35	44	117.00	M22x0.75

10.6um

产品编码	放大倍数	入射孔径	出射孔径	外径	总长度	螺纹接口
Part No	Magnification	Input Beam (mm)	Output Beam (mm)	Diameter (mm)	Length (mm)	Thread
JG-BEX-10.6-2	2	15	17	25	35.00	M22x0.75
JG-BEX-10.6-2.5	2.5	15	20	25	62.00	M22x0.75
JG-BEX-10.6-3	3	10	15	25	62.00	M22x0.75
JG-BEX-10.6-4	4	10	18	25	67.00	M22x0.75
JG-BEX-10.6-5	5	12	23	25	72.00	M22x0.75
JG-BEX-10.6-6	6	10	26	32	61.00	M22x0.75
JG-BEX-10.6-8	8	10	30	36	73.00	M22x0.75
JG-BEX-10.6-10	10	10	35	44	123.00	M22x0.75
JG-BEX-10.6-12	12	10	35	44	115.00	M22x0.75
JG-BEX-10.6-15	15	10	35	44	118.00	M22x0.75

1064nm

产品编码	放大倍数	入射孔径	出射孔径	外径	总长度	螺纹接口
Part No	Magnification	Input Beam (mm)	Output Beam (mm)	Diameter (mm)	Length (mm)	Thread
JG-BEX-1064-1.2	1.2	10	20	27	50.00	M22x0.75
JG-BEX-1064-1.5	1.5	10	20	24	37.00	M22x0.75
JG-BEX-1064-2	2	10	25	27	50.00	M22x0.75
JG-BEX-1064-3	3	10	25	30	60.00	M22x0.75
JG-BEX-1064-4	4	10	25	30	81.00	M22x0.75
JG-BEX-1064-5	5	10	25	30	72.00	M22x0.75
JG-BEX-1064-6	6	5	25	30	71.00	M22x0.75
JG-BEX-1064-8	8	10	25	30	76.00	M22x0.75
JG-BEX-1064-10	10	6	21	32	72.00	M22x0.75
JG-BEX-1064-20	20	8	28	45	91.00	M22x0.75

355nm

产品编码	放大倍数	入射孔径	出射孔径	外径	总长度	螺纹接口
Part No	Magnification	Input Beam (mm)	Output Beam (mm)	Diameter (mm)	Length (mm)	Thread
JG-BEX-355-2	2	6	24	27	75.60	M22x0.75
JG-BEX-355-3	3	6	24	27	77.30	M22x0.75
JG-BEX-355-4	4	6	24	27	55.00	M22x0.75
JG-BEX-355-5	5	6	24	27	73.50	M22x0.75
JG-BEX-355-6	6	6	24	27	86.00	M22x0.75
JG-BEX-355-7	7	6	24	27	88.10	M22x0.75
JG-BEX-355-8	8	6	24	27	64.00	M22x0.75
JG-BEX-355-10	10	6	24	27	64.00	M22x0.75
JG-BEX-355-12	12	6	24	30	109.00	M22x0.75
JG-BEX-355-15	15	6	24	30	110.00	M22x0.75

532nm

产品编码	放大倍数	入射孔径	出射孔径	外径	总长度	螺纹接口
Part No	Magnification	Input Beam (mm)	Output Beam (mm)	Diameter (mm)	Length (mm)	Thread
JG-BEX-532-1	1	10	12	25	44.00	M22x0.75
JG-BEX-532-2	2	6	26	25	76.00	M22x0.75
JG-BEX-532-4	4	6	26	25	78.00	M22x0.75
JG-BEX-532-5	5	6	26	25	57.00	M22x0.75
JG-BEX-532-6	6	6	26	25	88.00	M22x0.75
JG-BEX-532-8	8	6	26	25	65.50	M22x0.75
JG-BEX-532-10	10	6	26	25	66.50	M22x0.75
JG-BEX-532-16	16	5.5	24	45	101.00	M30x1
JG-BEX-532-22	22	6	30	25	110.90	M22x0.75

可变倍数扩束镜 Zoom Beam Expander

产品编码	波长	放大倍数	入射孔径	出射孔径	外径	总长度	螺纹接口
Part No	Wavelength	Magnification	Input Beam (mm)	Output Beam (mm)	Diameter (mm)	Length (mm)	Thread
JG-BEX-1064-2-8	10.6um	2-8	3	35	44.00	115	M22x0.75
JG-BEX-532-2-8	532nm	2-8	2	30	42.00	174	M22x0.75
JG-BEX-532-1-4	532nm	1-4	2	30	42.00	152	M22x0.75
JG-BEX-355-1-4	355nm	1-4	2	30	42.00	148	M22x0.75
JG-BEX-355-2-8	355nm	2-8	2	30	42.00	170	M22x0.75
JG-BEX-1064-1-3	1064nm	1-3	2	30	40.00	103	M22x0.75
JG-BEX-1064-2-8	1064nm	2-8	2	30	42.00	169	M22x0.75
JG-BEX-1064-2-10Q	1064nm	2-10	2	30	41.00	172	M22x0.75

聚焦镜 / Focusing Lenses

聚焦镜是设计用于聚焦或发散光的光学组件。

聚焦镜可能由一个或多个元件组成，广泛用于从显微镜到激光加工的各种应用。

应用于不同波段的聚焦镜通常采用不同的材料。硅，锗，硒化锌材料适用于红外波段，K9，熔融石英材料适用于紫外波段。

Focusing Lenses are optical components designed to focus or diverge light.

Focusing lenses, which may consist of a single or multiple elements, are used in a wide variety of applications from microscopy to laser processing system.

Focusing lenses for different wavelength use different materials. Germanium (Ge), Silicon (Si), or Zinc Selenide (ZnSe), Zinc Sulfide(ZnS) lenses are ideal for transmitting the Infrared (IR) spectrum, while K9 or ZF serial optical glasses, fused Silica is widely used for 1064nm, 808nm, 532nm, 355nm wavelength.



10.6um

产品编码	材料	直径	焦距	边缘厚度	工作波长
Part No	Material	Diameter (mm)	Focus Length (mm)	Edge Thickness (mm)	Wavelength
JG-LS-10.6-0.47-2	Zinc Selenide	12.00	50.80	3.00	10.6um
JG-LS-10.6-0.5-1.5	Zinc Selenide	12.70	38.10	2.00	10.6um
JG-LS-10.6-0.5-0.75	Zinc Selenide	12.70	-19.05	2.30	10.6um
JG-LS-10.6-0.69-0.63	Zinc Selenide	17.50	-15.87	2.30	10.6um
JG-LS-10.6-0.69-2.5	Zinc Selenide	17.50	63.50	2.00	10.6um
JG-LS-10.6-0.75-2	Zinc Selenide	19.05	50.80	3.00	10.6um
JG-LS-10.6-0.75-1.5	Zinc Selenide	19.05	38.10	3.00	10.6um
JG-LS-10.6-0.75-2.5	Zinc Selenide	19.05	63.50	3.00	10.6um
JG-LS-10.6-0.79-1.5	Zinc Selenide	20.00	38.10	2.00	10.6um
JG-LS-10.6-0.79-1.97	Zinc Selenide	20.00	50.00	2.00	10.6um
JG-LS-10.6-0.79-2	Zinc Selenide	20.00	50.80	2.00	10.6um
JG-LS-10.6-0.79-2.5	Zinc Selenide	20.00	63.50	2.00	10.6um
JG-LS-10.6-0.79-2.95	Zinc Selenide	20.00	75.00	2.00	10.6um
JG-LS-10.6-1-1.5	Zinc Selenide	25.40	38.10	3.00	10.6um
JG-LS-10.6-1-2	Zinc Selenide	25.40	50.80	3.00	10.6um
JG-LS-10.6-1-2.5	Zinc Selenide	25.40	63.50	3.00	10.6um
JG-LS-10.6-1-2.95	Zinc Selenide	25.40	75.00	3.00	10.6um
JG-LS-10.6-1-3.99	Zinc Selenide	25.40	101.40	3.00	10.6um

1064nm

产品编码	材料	直径	焦距	边缘厚度	工作波长
Part No	Material	Diameter (mm)	Focus Length (mm)	Edge Thickness (mm)	Wavelength
JG-LS-1064-0.75-2	K9	19.05	50.80	2.00	1064nm
JG-LS-1064-1-1.5	K9	25.40	38.10	3.00	1064nm
JG-LS-1064-1-2.5	K9	25.40	63.50	3.00	1064nm
JG-LS-1064-1-4	K9	25.40	101.60	3.00	1064nm
JG-LS-1064-1-5	K9	25.40	127.00	3.00	1064nm
JG-LS-1064-1.1-1.5	K9	27.90	38.10	3.00	1064nm
JG-LS-1064-1.1-2	K9	27.90	50.80	3.00	1064nm
JG-LS-1064-1.1-2.5	K9	27.90	63.50	3.00	1064nm
JG-LS-1064-1.1-3	K9	27.90	76.20	3.00	1064nm
JG-LS-1064-1.1-4	K9	27.90	101.60	3.00	1064nm
JG-LS-1064-1.5-2	K9	38.10	50.80	3.00	1064nm
JG-LS-1064-1.5-2.5	K9	38.10	63.50	3.00	1064nm
JG-LS-1064-1.5-3	K9	38.10	76.20	3.00	1064nm
JG-LS-1064-1.5-4	K9	38.10	101.60	3.00	1064nm
JG-LS-1064-2-4	K9	50.80	101.60	3.00	1064nm
JG-LS-1064-2-7.5	K9	50.80	127.00	3.00	1064nm

532nm

产品编码	材料	直径	焦距	边缘厚度	工作波长
Part No	Material	Diameter (mm)	Focus Length (mm)	Edge Thickness (mm)	Wavelength
JG-LS-532-0.79-1.97	K9	20.00	50.00	2.00	532nm
JG-LS-532-1-1.5	K9	25.40	38.10	2.00	532nm
JG-LS-532-1-2.5	K9	25.40	63.50	3.00	532nm
JG-LS-532-1-4	K9	25.40	101.60	3.00	532nm
JG-LS-532-1-5	K9	25.40	127.00	3.00	532nm
JG-LS-532-1.1-2	K9	27.94	50.80	2.00	532nm
JG-LS-532-1.1-2.5	K9	27.94	63.50	3.00	532nm
JG-LS-532-1.1-3	K9	27.94	76.20	3.00	532nm
JG-LS-532-1.1-4	K9	27.94	101.60	3.00	532nm
JG-LS-532-1.5-2	K9	38.10	50.80	3.00	532nm
JG-LS-532-1.5-2.5	K9	38.10	63.50	3.00	532nm
JG-LS-532-1.5-3	K9	38.10	76.20	3.00	532nm
JG-LS-532-1.5-4	K9	38.10	101.60	5.00	532nm

窗口片 / Optical Window

窗口片可以为光学系统或敏感的电子设备提供保护，免受外部环境的影响。

选择正确的窗口片可以透射应用所需的波长，从而达到最佳效果。

窗口片被广泛运用于在投影系统、成像系统、光学测量系统等。

Optical window can protect the optical system or sensitive parts from outside environment.

Choosing the correct optical window that transmits the required wavelengths for the application

is critical to achieving the best results. Windows are widely used in projection systems, imaging systems, optical measurement systems, etc.



10.6um

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JGW-10.6-12.7-3	Zinc Selenide	12.7	3.0	10.6um
JGW-10.6-18-2	Zinc Selenide	18.0	2.0	10.6um
JGW-10.6-19.05-3	Zinc Selenide	19.1	3.0	10.6um
JGW-10.6-20-3	Zinc Selenide	20.0	3.0	10.6um
JGW-10.6-25.4-3	Zinc Selenide	25.4	3.0	10.6um
JGW-10.6-27.9-3	Zinc Selenide	27.9	3.0	10.6um
JGW-10.6-38.1-3	Zinc Selenide	38.1	3.0	10.6um
JGW-10.6-50.8-3	Zinc Selenide	50.8	3.0	10.6um
JGW-10.6-80-3	Zinc Selenide	80.0	3.0	10.6um
JGW-10.6-90-3	Zinc Selenide	90.0	3.0	10.6um

1064nm

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JGW-1064-12.7-3	K9	12.7	3.0	1064nm
JGW-1064-27.94-5	K9	27.94	5.0	1064nm
JGW-1064-40-3	K9	40.0	3.0	1064nm
JGW-1064-45-3	K9	45.00	3.0	1064nm
JGW-1064-75-2	K9	75.0	2.0	1064nm
JGW-1064-78-2	K9	78.00	2.0	1064nm
JGW-1064-60-2	K9	60.0	2.0	1064nm
JGW-1064-48-2	K9	48.00	2.0	1064nm
JGW-1064-40-2	K9	40.0	2.0	1064nm
JGW-1064-123-4	K9	123.00	4.0	1064nm
JGW-1064-128-2	K9	128.0	2.0	1064nm

1030-1080nm

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JGW-1064-20-1.5Q	Fused Silica	20.0	1.5	1030-1080nm
JGW-1064-20-3Q	Fused Silica	20.0	3.0	1030-1080nm
JGW-1064-20-2Q	Fused Silica	20.0	2.0	1030-1080nm
JGW-1064-22.35-4Q	Fused Silica	22.35	4.0	1030-1080nm
JGW-1064-24.9-1.5Q	Fused Silica	24.9	1.5	1030-1080nm
JGW-1064-25-2Q	Fused Silica	25.0	2.0	1030-1080nm
JGW-1064-25-3Q	Fused Silica	25.0	3.0	1030-1080nm
JGW-1064-25.4-4Q	Fused Silica	25.4	4.0	1030-1080nm
JGW-1064-25.4-5Q	Fused Silica	25.4	5.0	1030-1080nm
JGW-1064-27.9-4.1Q	Fused Silica	27.9	4.1	1030-1080nm
JGW-1064-28-4Q	Fused Silica	28.0	4.0	1030-1080nm
JGW-1064-29.7-4.7Q	Fused Silica	29.7	4.7	1030-1080nm
JGW-1064-30-1.5Q	Fused Silica	30.0	1.5	1030-1080nm
JGW-1064-30-2Q	Fused Silica	30.0	2.0	1030-1080nm
JGW-1064-30-3Q	Fused Silica	30.0	3.0	1030-1080nm
JGW-1064-30-5Q	Fused Silica	30.0	5.0	1030-1080nm
JGW-1064-34-3Q	Fused Silica	34.0	3.0	1030-1080nm
JGW-1064-34-5Q	Fused Silica	34.0	5.0	1030-1080nm
JGW-1064-35-4Q	Fused Silica	35.0	4.0	1030-1080nm
JGW-1064-36-5Q	Fused Silica	36.0	5.0	1030-1080nm
JGW-1064-37-7Q	Fused Silica	37.0	7.0	1030-1080nm
JGW-1064-38.1-1.5Q	Fused Silica	38.1	1.5	1030-1080nm
JGW-1064-40-2Q	Fused Silica	40.0	2.0	1030-1080nm
JGW-1064-40-3Q	Fused Silica	40.0	3.0	1030-1080nm
JGW-1064-40-5Q	Fused Silica	40.0	5.0	1030-1080nm
JGW-1064-42-3Q	Fused Silica	42.0	3.0	1030-1080nm
JGW-1064-48-3Q	Fused Silica	48.0	3.0	1030-1080nm
JGW-1064-50-2Q	Fused Silica	50.0	2.0	1030-1080nm
JGW-1064-55-1.5Q	Fused Silica	55.0	1.5	1030-1080nm
JGW-1064-70-4.1Q	Fused Silica	70.0	4.1	1030-1080nm
JGW-1064-78-3Q	Fused Silica	78.0	3.0	1030-1080nm
JGW-1064-103-2Q	Fused Silica	103.0	2.0	1030-1080nm
JGW-1064-104-2Q	Fused Silica	104.0	2.0	1030-1080nm

532nm

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JGW-532-20-3	K9	20.0	3.0	532nm
JGW-532-22-4	K9	22.0	4.0	532nm
JGW-532-25.4-5	K9	25.4	5.0	532nm
JGW-532-27.94-5	K9	27.9	5.0	532nm
JGW-532-20-3Q	Fused Silica	20.0	3.0	532nm
JGW-532-22-4Q	Fused Silica	22.0	4.0	532nm
JGW-532-25.4-5Q	Fused Silica	25.4	5.0	532nm
JGW-532-27.94-5Q	Fused Silica	27.9	5.0	532nm

355nm

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JGW-355-20-3Q	Fused Silica	20.0	3.0	355nm
JGW-355-25.4-5Q	Fused Silica	25.4	5.0	355nm
JGW-355-27.94-5Q	Fused Silica	27.9	5.0	355nm
JGW-355-60-2.5Q	Fused Silica	60.0	2.5	355nm
JGW-355-73-1.6Q	Fused Silica	73.0	1.6	355nm
JGW-355-75-3Q	Fused Silica	75.0	3.0	355nm
JGW-355-78-3Q	Fused Silica	78.0	3.0	355nm
JGW-355-82-2Q	Fused Silica	82.0	2.0	355nm
JGW-355-84-2Q	Fused Silica	84.0	2.0	355nm
JGW-355-86-3Q	Fused Silica	86.0	3.0	355nm
JGW-355-113-2.23Q	Fused Silica	113.0	2.2	355nm
JGW-355-120-3Q	Fused Silica	120.0	3.0	355nm
JGW-355-130-3Q	Fused Silica	130.0	3.0	355nm

反射镜 / Optical Mirror

反射镜用于激光谐振腔外的光路系统中的转折镜，可改变光路方向。

Optical Mirror is used as a turning mirror in the optical path system outside the laser cavity, which can change the direction of the beam.



10.6um

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JG-TR-10.6-19.05-3	Silicon	19.1	3.0	10.6um
JG-TR-10.6-20-3	Silicon	20.0	3.0	10.6um
JG-TR-10.6-25-3	Silicon	25.0	3.0	10.6um
JG-TR-10.6-25.4	Silicon	25.4	3.0	10.6um
JG-TR-10.6-30-3	Silicon	30.0	3.0	10.6um
JG-TR-10.6-38.1-3	Silicon	38.1	3.0	10.6um

1064nm

产品编码	材料	直径/尺寸	厚度	工作波长
Part No	Material	Diameter / Size (mm)	Thickness (mm)	Wavelength
JG-TR-1064-20-2	K9	20.0	2.0	1064nm
JG-TR-1064-20-3	K9	20.0	3.0	1064nm
JG-TR-1064-25-3	K9	25.0	3.0	1064nm
JG-TR-1064-30-3	K9	30.0	3.0	1064nm
JG-TR-1064-40-3	K9	40.0	3.0	1064nm
JG-TR-1064&650-45-3	K9	45.0	3.0	1064&650nm
JG-TR-1064&650-40-5	K9	40.0	5.0	1064&650nm
JG-TR-1064&650-25-3	K9	25.0	3.0	1064&650nm
JG-TR-1064&650-20-3	K9	20.0	3.0	1064&650nm
JG-TR-1064&650-150-60-5	K9	150x60	5.0	1064&650nm
JG-TR-1064&650-120-120-5	K9	120x120	5.0	1064&650nm
JG-TR-1064&650-120-120-4	K9	120x120	4.0	1064&650nm
JG-TR-1064&650-120-120-3	K9	120x120	3.0	1064&650nm
JG-TR-1064&650-120-30-5	K9	120x30	5.0	1064&650nm
JG-TR-1064&650-120-25-4	K9	120x25	4.0	1064&650nm
JG-TR-1064&650-90-45-5	K9	90x45	5.0	1064&650nm
JG-TR-1064&650-80-80-5	K9	80x80	5.0	1064&650nm
JG-TR-1064&650-80-35-5	K9	80x35	5.0	1064&650nm
JG-TR-1064&650-75-30-5	K9	75x30	5.0	1064&650nm
JG-TR-1064&650-50-37-5	K9	50x37	5.0	1064&650nm
JG-TR-1064&650-48-3Q	Fused Silica	48.0	3.0	1064&650nm
JG-TR-1064&650-40-3Q	Fused Silica	40.0	3.0	1064&650nm
JG-TR-1064&650-30-5Q	Fused Silica	30.0	5.0	1064&650nm
JG-TR-1064&650-30-3Q	Fused Silica	30.0	3.0	1064&650nm
JG-TR-1064&650-25-3Q	Fused Silica	25.0	3.0	1064&650nm
JG-TR-1064&650-20-3Q	Fused Silica	20.0	3.0	1064&650nm
JG-TR-1064&650-120-100-3Q	Fused Silica	120x100	3.0	1064&650nm
JG-TR-1064&650-72-33-3Q	Fused Silica	72x33	3.0	1064&650nm
JG-TR-1064&650-21-21-2Q	Fused Silica	21x21	2.0	1064&650nm

532nm

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JG-TR-532-20-3Q	Fused Silica	20.0	3.0	532nm
JG-TR-532-25-3Q	Fused Silica	25.0	3.0	532nm
JG-TR-532-25.4-3Q	Fused Silica	25.4	3.0	532nm
JG-TR-532-30-3Q	Fused Silica	30.0	3.0	532nm
JG-TR-532-38.1-3Q	Fused Silica	38.1	3.0	532nm
JG-TR-532-45-3Q	Fused Silica	45.0	3.0	532nm

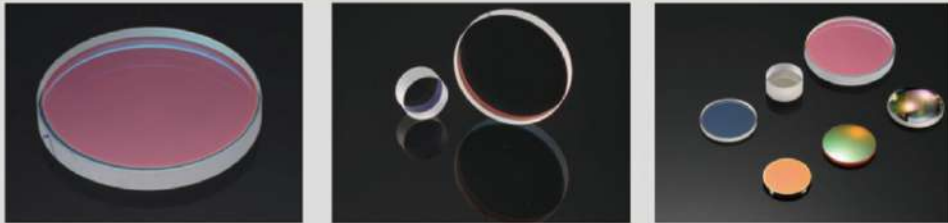
355nm

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JG-TR-355-20-3	K9	20.0	3.0	355nm
JG-TR-355-25-3	K9	25.0	3.0	355nm
JG-TR-355-25-6	K9	25.0	6.0	355nm
JG-TR-355-40-3	K9	40.0	3.0	355nm
JG-TR-355-50-5	K9	50.0	5.0	355nm
JG-TR-355-100-100-5	K9	100x100	5.0	355nm&650nm
JG-TR-355-25-3Q	Fused Silica	25.0	3.0	355nm
JG-TR-355-25-6Q	Fused Silica	25.0	6.0	355nm
JG-TR-355-20-3Q	Fused Silica	20.0	3.0	355nm
JG-TR-355-40-3Q	Fused Silica	40.0	3.0	355nm
JG-TR-355-50-5Q	Fused Silica	50.0	5.0	355nm

输出镜/Output Couple

输出镜也叫部分反射镜，它能将激光总能量中的一部分反射回谐振腔，而让另一部分能量盘陀射输出，主要用于激光谐振腔内保证激光功率和输出模式。

The output coupler is mainly used to ensure laser power and output mode in the laser cavity. In industrial CO₂ lasers, the output coupler returns a portion of the total laser energy back to the cavity and another portion of the energy output cavity for cutting, soldering, and heat treatment.



10.6um

产品编码	材料	直径	边缘厚度	反射率
Part No	Material	Diameter (mm)	Edge Thickness (mm)	Reflectivity
JGPR-10.6-12.7Z	Zinc Selenide	12.7	3.0	10%/20%/50%
JGPR-10.6-20Z	Zinc Selenide	20.0	3.0	10%/20%/50%
JGPR-10.6-25.4Z	Zinc Selenide	25.4	3.0	10%/20%/50%
JGPR-10.6-38.1Z	Zinc Selenide	38.1	3.0/5.0	10%/20%/50%
JGPR-10.6-50.8Z	Zinc Selenide	50.8	5.0	10%/20%/50%

1064nm

产品编码	材料	直径	边缘厚度	反射率
Part No	Material	Diameter (mm)	Edge Thickness (mm)	Reflectivity
JGPR-1064-20-5	K9/FS	20.0	5.0	10%/15%/20%
JGPR-1064-20	K9/FS	20.0	4.0/5.0	85%/80%/50%
JGPR-1064-20-5	K9/FS	20.0	5.0	40%/50%/60%
JGPR-1064-20-10	K9/FS	20.0	10.0	40%/50%/60%
JGPR-1064-25-10	K9/FS	25.0	10.0	30%/50%/70%
JGPR-1064-30-10	K9/FS	30.0	10.0	30%/50%/70%

合束镜/Beam Combiner

合束镜是用来将两种波长的光分别通过透射和反射的方法合成到一条光路上。在激光加工中，通常用来把650nm指示可见光合入光路中来校准10.6um或1064nm激光光束。

Beam combiner is used to synthesize two wavelengths of light into a light path through transmission and reflection. In laser processing, it is usually used to calibrate 10.6um or 1064nm laser beam by combining 650nm indicating visible light into the optical path.

10.6um/650nm

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JGBC-10.6-12.7	Zinc Selenide	12.7	2.0	10.6um/650nm
JGBC-10.6-19.05	Zinc Selenide	19.05	2.0	10.6um/650nm
JGBC-10.6-20	Zinc Selenide	20.0	1.5	10.6um/650nm
JGBC-10.6-25.4	Zinc Selenide	25.4	3.0	10.6um/650nm

1064nm/650nm

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JGBC-1064-20-1	K9	20.0	1.0	1064nm/650nm
JGBC-1064-20-1.5	K9	20.0	1.5	1064nm/650nm
JGBC-1064-20-2	K9	20.0	2.0	1064nm/650nm
JGBC-1064-20-3	K9	20.0	3.0	1064nm/650nm
JGBC-1064-25-3	K9	25.0	3.0	1064nm/650nm
JGBC-1064-25.4	K9	25.4	2.0	1064nm/650nm
JGBC-1064-27.94	K9	27.94	2.0	1064nm/650nm
JGBC-1064-30-3	K9	30.0	3.0	1064nm/650nm
JGBC-1064-50-6.36	K9	50.0	6.4	1064nm/650nm

355/650nm

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JGBC-355-20-2Q	Fused Silica	20.0	2.0	355nm/650nm
JGBC-355-25-3Q	Fused Silica	25.0	3.0	355nm/650nm

分光镜/Beam Splitter

分光镜可将激光光束分为透过光和反射光两道光束。

The beam splitter can divide the laser beam into two beams: the transmitted beam and the reflected beam.

分光镜 Beam Splitter 355nm,532nm

产品编码	材料	直径	厚度	工作波长
Part No	Material	Diameter (mm)	Thickness (mm)	Wavelength
JGBS-532-25-3	Fused Silica	25.0	3.0	532nm
JGBS-355-25-3	Fused Silica	25.0	3.0	355nm

扫描振镜片/Galvo scanning mirrors

扫描振镜片由反射率大于99.5%的X,Y两片反射镜组成，用于准确定位激光光束，广泛运用于扫描激光体系如标刻、雕琢、微导管钻孔等等。

一般来说Y反射镜的尺寸比X反射镜的尺寸略大。

Galvo scanning mirrors are X and Y mirrors which reflection is more than 99.5%, they are used to accurately locate the laser beam. Galvo scanning mirrors are widely used in scanning laser system, such as marking, carving, micro catheter drilling, etc. Generally speaking, the size of Y mirror is slightly larger than X mirror.

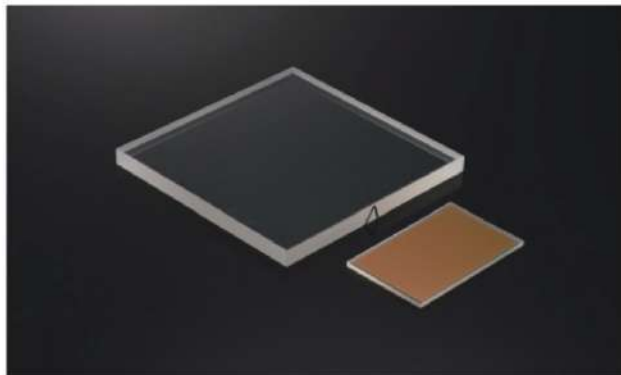
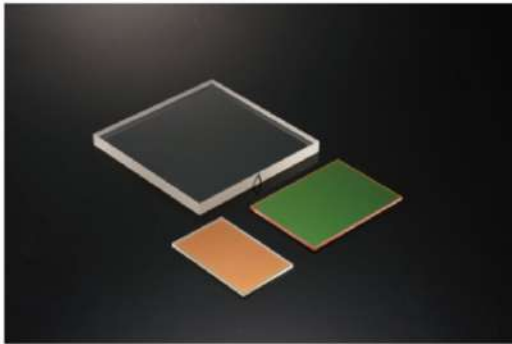


产品编码	材料	尺寸	光斑	工作波长
Part No	Material	Size(mm)	Beam Size (mm)	Wavelength
JGSM-8-X	Si/K9/FS	15*12.6*1.7	8.0	10.6um/1064/355/532nm
JGSM-8-Y	Si/K9/FS	25.4*10.6*1.7	8.0	10.6um/1064/355/532nm
JGSM-10-X	Si/K9/FS	18.3*13*2	10.0	10.6um/1064/355/532nm
JGSM-10-Y	Si/K9/FS	23.2*16*2	10.0	10.6um/1064/355/532nm
JGSM-12-X	Si/K9/FS	21*16.8*2	12.0	10.6um/1064/355/532nm
JGSM-12-Y	Si/K9/FS	30*19*2	12.0	10.6um/1064/355/532nm
JGSM-14-X	Si/K9/FS	24*16*3	14.0	10.6um/1064/355/532nm
JGSM-14-Y	Si/K9/FS	30.8*21.5*3	14.0	10.6um/1064/355/532nm
JGSM-20-X	Si/K9/FS	37*25.5*3	20.0	10.6um/1064/355/532nm
JGSM-20-Y	Si/K9/FS	47*31*3	20.0	10.6um/1064/355/532nm
JGSM-30-X	Si/K9/FS	55*34*4	30.0	10.6um/1064/355/532nm
JGSM-30-Y	Si/K9/FS	63*43*4	30.0	10.6um/1064/355/532nm
JGSM-50-X	Si/K9/FS	72*45.5*4	50.0	10.6um/1064/355/532nm
JGSM-50-Y	Si/K9/FS	86*60*4	50.0	10.6um/1064/355/532nm

机器视觉反射镜/ Machine Vision Mirrors

机器视觉是人工智能正在快速发展的一个分支。
简单说来，机器视觉就是用机器代替人眼来做测量和判断。
我们可根据您的具体要求来订做机器视觉反射镜。

Machine vision is a branch of artificial intelligence which is developing rapidly.
In short, machine vision is to use machines instead of human eyes to measure and judge.
We can customize the machine vision mirror according to your requirement.



产品编号	尺寸	厚度	工作波长
Part No	Size or Diameter (mm)	Thickness (mm)	Wavelength
JG-TRV-150-150-4	150x150	4	
JG-TRV-150-150-5	150x150	5	
JG-TRV-150-60-5	150x60	5	
JG-TRV-150-50-5	150x50	5	
JG-TRV-140-120-3	140x120	3	
JG-TRV-120-120-10	120x120	10	
JG-TRV-120-120-3	120x120	3	
JG-TRV-120-120-4	120x120	4	
JG-TRV-120-120-5	120x120	5	
JG-TRV-120-100-5	120x100	5	
JG-TRV-120-100-3	120x100	3	
JG-TRV-100-100-5	100x100	5	
JG-TRV-100-100-3	100x100	3	
JG-TRV-100-90-5	100x90	5	
JG-TRV-100-80-2	100x80	2	R1064nm & T400-700nm
JG-TRV-100-80-5	100x80	5	T1064nm & R400-700nm
JG-TRV-100-30-5	100x30	5	R355nm & T400-700nm
JG-TRV-90-90-5	90x90	5	T355nm & R650nm
JG-TRV-90-70-5	90x70	5	T10.6um & R400-700nm
JG-TRV-90-60-3	90x60	3	R532nm & T600-800nm
JG-TRV-90-76-3	90x76	3	T532nm & T600-800nm
JG-TRV-80-80-5	80x80	5	
JG-TRV-80-75-3	80x75	3	
JG-TRV-72-46-3	72x46	3	
JG-TRV-60-60-5	60x60	5	
JG-TRV-60-50-3	60x50	3	
JG-TRV-45-3	45	3	
JG-TRV-40-2	40	2	
JG-TRV-40-3	40	3	
JG-TRV-40-4	40	4	
JG-TRV-30-3	30	3	
JG-TRV-25-3	35	3	
JG-TRV-20-3	20	3	

MIMY

LASER SCANNING GALVO METER



SUPER SONIC

SUPER SONIC HOUSE, Plot No. C-10/5-6, Soma Kanji Estate-2, (SK-2),
Near Sosyo Circle, Opp. Sanidev Temple, Udhna Magdalla Road,
Surat (Gujarat) India - 395007 | www.supersonicgroup.in
For Enquiry Contact : +91 261 2634263, 95129 51510
e-mail : supersonichouse07@hotmail.com

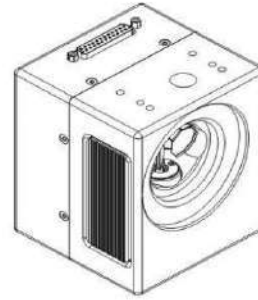
MIMY

MIMY-10E

- MIMY-10E is a 2D scanning system with 10mm illumination spot, suitable for laser processing, marking, welding, 3D etc.
- our products combines servo system, motor manufacturing, precision finishing in one, with high performance and high reliability.
- The unique structural design to ensure the heat transfer and good shielding performance. Each component is made with strict standards of low drift and high stability so that our products have reached a high level.
- The scanning mirror adopts general xy2-100 communication protocol to accept digital instruction, suitable for different cards.
- If you are interested in our products, please contact us, we will be happy to provide you with good service!



MIMY-10E



specification

dynamic properties :

tracking error	0.25ms
Long time 8 hour shift	<30mrad
zero drift	<15urad/k
gain drift	<50ppm/k

photoelectric properties :

clear aperture	10mm
Scanning angle	$\pm 0.35\text{rad}$
non-linearity	3.5mrad

fundamental characteristics :

Marking speed	5000mm/s
Traverse Speed	5500mm/s

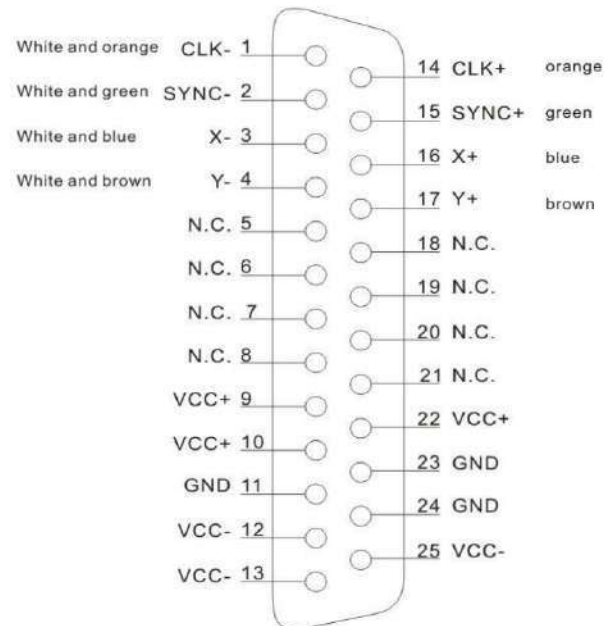
power requirement :	$\pm 15\text{V DC}$ 3A
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Interface Protocol :	XY2-100
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Lens wavelength :	10600nm 1064 532 355
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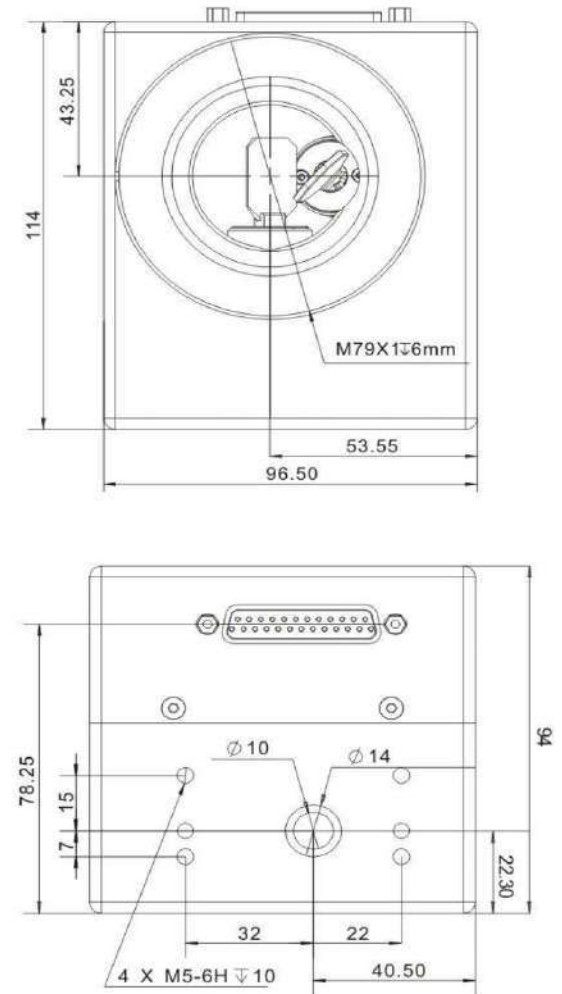
working temperature :	$25^{\circ}\text{C} \pm 10^{\circ}\text{C}$
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The interface definition



25 pin port

Mechanical dimension drawing (mm)



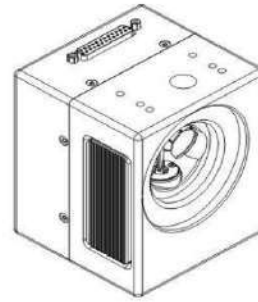
MIMY

MIMY-10H

- MIMY-10H is a 2D scanning system with 10mm illumination spot, suitable for laser processing, marking, welding, 3D etc.
- our products combines servo system, motor manufacturing, precision finishing in one, with high performance and high reliability.
- The unique structural design to ensure the heat transfer and good shielding performance. Each component is made with strict standards of low drift and high stability so that our products have reached a high level.
- The scanning mirror adopts general xy2-100 communication protocol to accept digital instruction, suitable for different cards.
- If you are interested in our products, please contact us, we will be happy to provide you with good service!



MIMY-10H



specification

dynamic properties :

tracking error	0.25ms
Long time 8 hour shift	<30mrad
zero drift	<15urad/k
gain drift	<50ppm/k

photoelectric properties :

clear aperture	10mm
Scanning angle	$\pm 0.35\text{rad}$
non-linearity	3.5mrad

fundamental characteristics :

Marking speed	6000mm/s
Traverse Speed	7000mm/s

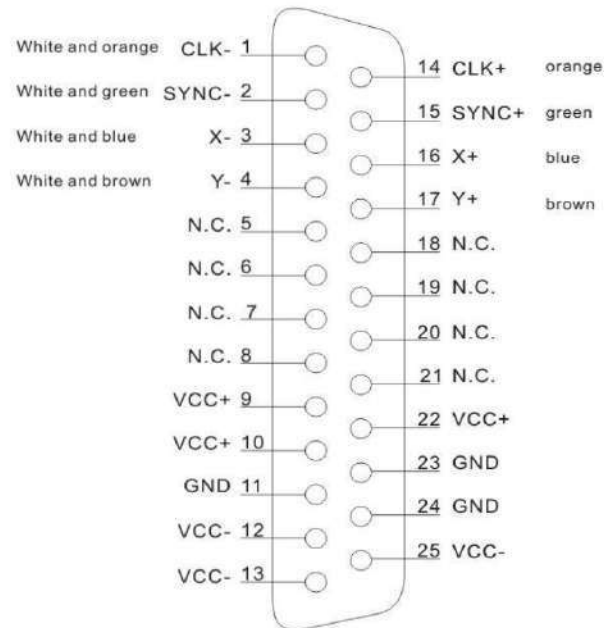
power requirement :	$\pm 15\text{V DC}$ 3A
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Interface Protocol :	XY2-100
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Lens wavelength :	10600nm
	1064
	532 355

working temperature :	$25^{\circ}\text{C} \pm 10^{\circ}\text{C}$
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The interface definition



25 pin port

Mechanical dimension drawing (mm)

