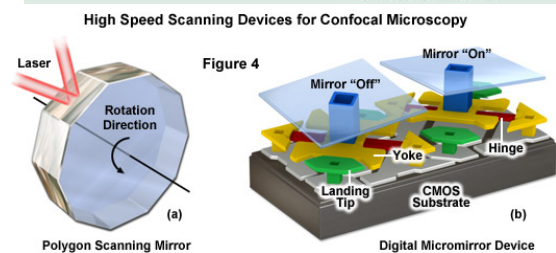
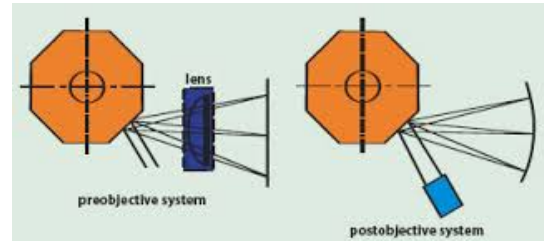


多面扫描镜(Polygonal Scanners)

多面扫描镜(Polygonal Scanners), 可实现大范围、超高速、高精度与高重复性的激光光束扫描。多面扫描镜装置包括电机与多面棱镜, 多面棱镜具有多个反射面, 并安装在电动机的旋转轴上。通过电机的旋转, 多面棱镜可实现高速旋转, 从而实现大角度、高速的光束扫描。

应用领域: 医学成像、薄膜检测、材料加工、激光印刷制版、印刷线路板检测



我们多面扫描镜有空气轴承与球轴承两种类型, 可实现超过 100kHz 的扫描速度。

空气动力轴承设计(Aerodynamic Air Bearing Designs): 该设计适用于重量小于 120 克的多面棱镜。基于该设计的扫描镜速度范围为 6,000~55,000 rpm, MTBF 超过 20,000 小时, 且无需额外空气动力驱动。



空气静力轴承设计(Aerostatic Air Bearing Designs): 该设计适用于对动态轨迹和速度稳定性有极高要求的领域。基于该设计的扫描镜速度范围为 0~30,000 rpm



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球轴承设计(Ball Bearing Deisgns): 该设计适用于大范围低速扫描领域。

我们可根据客户应用要求推荐合适的产品或提供定制化的产品。我们提供的棱镜尺寸范围为 1 英寸~14 英寸。



Model	Speed* (RPM)	Mirror Size Thick x Dia (Max Inches)	Bearing Type	Dynamic Track **(Arc Sec)	Housing Design	Encoder Option
AUT-HCAB	4k-24k	1.00 x 5.00	Aerodynamic	≤10	Cantilever	Yes
AUT-PHCAB	<30k	1.00 x 5.00	Aerostatic	≤10	Cantilever	Yes
AUT-SA24	8k-55k	0.40 x 3.00	Aerodynamic	≤60	Captured	No
AUT-SA24C	6k-24k	0.40 x 3.00	Aerodynamic	≤20	Cantilever	No
AUT-P1AB	10k-28k	0.30 x 1.80	Aerodynamic	≤60	Cantilever	No
AUT-SB5C	<15k	1.00 x 3.00	Ball	≤10	Cantilever	Yes
AUT-LB5-5	<5k	1.25 x 5.00	Ball	≤20	Captured	Yes
AUT-LB5-6	<5k	1.25 x 6.00	Ball	≤20	Captured	Yes

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AUT-LB5-6.5	<5k	1.25 x 6.50	Ball	≤20	Captured	Yes
AUT-LB5C	<5k	1.25 x 3.27	Ball	≤60	Cantilever	Yes
AUT-P1BB	<10k	1.00 x 3.00	Ball	≤60	Cantilever	Yes
AUT-LB12-5	<12k	1.25 x 5.00	Ball	≤20	Captured	Yes
AUT-LB12-6	<12k	1.25 x 6.00	Ball	≤20	Captured	Yes
AUT-LB12-6.5	<12k	1.25 x 6.50	Ball	≤20	Captured	Yes
AUT-LB12C	<12k	1.25 x 3.27	Ball	≤60	Cantilever	Yes
AUT-LB34	<34k	0.75 x 2.84	Ball	=20	Captured	Yes

* Dependent on controller and optic attributes including size and number of facets

** Maximum Angular Error (Mechanical) - Tighter track available for custom units

RTA 多面扫描镜(Ready-To-Assemble Polygonal Scanners): 我们的 RTA 多面扫描镜包括基于球轴承(ball bearing motor)设计, 速度范围 625~10000 RPM 的扫描镜与基于空气动力轴承动力(self-generating air bearing motor), 速度范围 10000~55000 RPM 的扫描镜。我们扫描镜的扫描速率范围是 195Hz 到 117KHz。我们提供针对红外激光应用的保护金镀膜, 我们也可根据客户要求定制适用不同波长与尺寸的产品 注意:我们所有的 RTA 多面扫描镜都是”Captured”封装设计, Dynamic Track 小于 15 arc sec



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Configuration Part Number	Polygonal Scanner Model	Polygon Facet Count	Polygon Optical Coating Type	Active Scan Angle (Deg)	Oper. Speed Range (RPM)	Mirror Facet C/A: H x W (Inches)	Bearing Type	Velocity Stability (%)	Included Motor Controller	Programmed Controller Speeds (RPM)
1-1-3321-001-00	MPA,DT-18-27 5-040/SB12	18	Prot AU	20	625 - 10k	0.319 x 0.465	Ball	≤ 0.02% *	BMC-3.4	625*, 2.5K, 5k, 10k
1-1-3322-001-00	MPA,DT-36-27 5-040/SB12	36	Prot AU	10	625 - 10k	0.319 x 0.221	Ball	≤ 0.02% *	BMC-3.4	625*, 2.5K, 5k, 10k
1-1-3323-001-00	MPA,DT-54-27 5-040/SB12	54	Prot AU	7	625 - 10k	0.319 x 0.140	Ball	≤ 0.02% *	BMC-3.4	625*, 2.5K, 5k, 10k
1-1-3324-001-00	MPA,DT-72-27 5-040/SB12	72	Prot AU	5	625 - 10k	0.319 x 0.100	Ball	≤ 0.02% *	BMC-3.4	625*, 2.5K, 5k, 10k
1-1-3300-001-00	MPA,DT-18-25 0-025/SA34	18	Prot AU	20	10k - 55k	0.189 x 0.421	Air	≤ 0.03%	BMC-7	10k, 20k, 40k, 55k
1-1-3304-001-00	MPA,DT-36-25 0-025/SA34	36	Prot AU	10	10k - 55k	0.189 x 0.199	Air	≤ 0.03%	BMC-7	10k, 20k, 40k, 55k
1-1-3301-001-00	MPA,DT-54-25 0-025/SA34	54	Prot AU	7	10k - 55k	0.189 x 0.126	Air	≤ 0.03%	BMC-7	10k, 20k, 40k, 55k
1-1-3306-001-00	MPA,DT-72-25 0-025/SA34	72	Prot AU	5	10k - 55k	0.189 x 0.089	Air	≤ 0.03%	BMC-7	10k, 20k, 40k, 55k
1-1-3302-001-00	MPA,DT-90-25 0-025/SA34	90	Prot AU	4	10k - 55k	0.189 x 0.067	Air	≤ 0.03%	BMC-7	10k, 20k, 40k, 55k
1-1-3307-001-00	MPA,DT-128-2 50-025/SA34	128	Prot AU	3	10k - 55k	0.189 x 0.041	Air	≤ 0.03%	BMC-7	10k, 20k, 40k, 55k

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Off The Shelf 多面扫描镜: 我们提供三款现成的多面扫描镜, 具体信息如下:

型号	SOS-BB10	SOS-AB30	SOS-SA24C
			
产品描述			
	Laser Scanner (Polygon Mirror, Motor, and Controller) MPA,DT-08-181-039/P1 BB (P1-VC)	Laser Scanner (Polygon Mirror, Motor, and Controller) MPA, DT-08-181-030/P1AB (P1-CTRL)	Laser Scanner (Polygon Mirror, Motor, and Controller) MPA, DT-10-245-025/SA24C (BMC-3.4)
指标参数			
Speed	1K-10K RPM	21K-28K RPM	6K-24K RPM
Mirror Size (Thick x Dia)	0.394" X 1.810"	0.300" X 1.810"	0.250" X 2.450"
Bearing Type	Ball Bearing	Air Bearing	Air Bearing
Dynamic Track (Arc Seconds)	≤ 40 (Peak to Peak)	≤ 40 (Peak to Peak)	≤40 (Peak to Peak)
Reflectivity	88% @ 633nm	88% @ 633nm	88% @ 633nm
Housing Design	Cantilever	Cantilever	Cantilever
Velocity Stability*	≤ 1.0%	≤ 0.02%	≤ 0.02%
控制方式			
	Voltage Control	Phase-Locked Loop	Phase-Locked Loop
产品特点			
	Low Speed	High Speed	Mid-Range Speed
	Available off-the-shelf	Available off-the-shelf	Available off-the-shelf
	Standard Design	Standard Design	Standard Design
	Includes Drive Controller	Includes Drive Controller	Includes Drive Controller
	Low Cost	Low Cost	Low Cost
	Long Life	Long Life	Long Life
	Quick Delivery	Quick Delivery	Quick Delivery
	Complete Package	Complete Package	Complete Package

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