Kokyo
株式会社 光響
Email : info@symphotony.com
Web : https://www.symphotony.com/

EXTRASCAN
光栅振镜方头

产品特点
FEATURES

自主研发高精度光栅编码器。
Independent research and development of high precision grating encoder

23bit分辨率数字电机实现卓越的定位精度和重复定位精度。
23bit resolution digital galvo to achieve excellent positioning accuracy and repeat positioning accuracy.

实时检测振镜状态，确保振镜安全可靠运行。
Real-time detection of galvanometer status to ensure safe and reliable operation of the galvanometer.

全数字设计保证极低的漂移和极高的稳定性。
All digital design guarantees extremely low drift and extremely high stability.

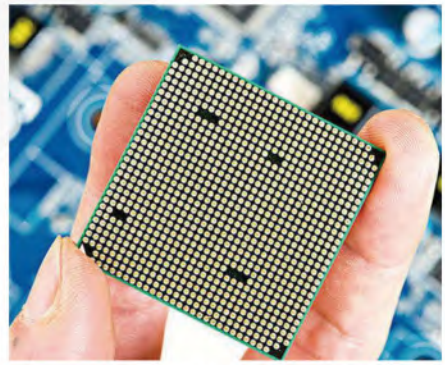
行业应用
INDUSTRY APPLICATIONS

可应用于非金属和部分金属材料加工， 现广泛应用于多个领域，如食品包装、饮料包装、医药包装、建筑陶瓷、钮扣、工艺礼品、电子元件、手机外壳、笔记本及平板外壳、剥线、薄膜切割、PCB条码、外壳铭牌等领域。

Our scanner systems can process non-metallic and partial metallic materials. It is widely used in many industries, such as food packaging, beverage packaging, pharmaceutical packaging, architectural ceramics, buttons, craft gifts, electronic components, mobile phone casings, notebook and flat casing, stripping, film cutting, PCB bar code, shell name-plate, etc.

3D打印
SLM

光伏
Photovoltaic



半导体
semiconductor

※以上图片来源于网络
The above pictures are from the Internet

技术参数
TECHNICAL PARAMETERS

ExtraScan II	10mm	14mm	20mm	30mm
入口光斑 Input Beam Aperture (mm)	10	14	20	30
光柱位移 Beam Displacement (mm)	12.54	16.42	25.25	35.53
跟随误差 Tracking Error (ms)	0.2	0.25	0.5	0.80
重复精度 Repeatability (μrad)	< 1	< 1	< 1	< 1
零位漂移 Offset Drift (μrad/K)	< 15	< 15	< 15	< 15
增益漂移 Gain Drift (ppm/K)	< 8	< 8	< 8	< 8
8小时以上漂移 Long-term drift over 8 hours (mrad)	< 0.08	< 0.08	< 0.08	< 0.08
1%全行程 1% of full scale (ms)	0.45	0.6	0.85	1.30
10%全行程 10% of full scale (ms)	1.30	1.50	2.60	4.80
定位速度① Positioning Speed (m/s)	10.0	7.0	5.0	3.0
扫描角度② Typical Scan Angle (°)	±25			
增益误差 Gain Error (mrad)	<5			
零位误差 Zero Offset (mrad)	<5			
非线性度 Nonlinearity (%)	<0.1			
电源要求 Power Requirements	±15VDC, ≥3A			
通讯协议 Communication Protocol	16bit: XY2-100	20bit:ST2-100		
工作温度 Operation Temperature (℃)	25±10			
重量 Weight (kg)	1.9	2.3	5.0	5.2

注：① 使用焦距F=160mm的场镜测试 Test with F=160mm F-theta lens

② 以上角度均为光学角度 All angles are in optical degrees

外形尺寸图
TECHNICAL DRAWING

ExtraScan 14mm