

EXTRASCAN スキャンヘッド

FEATURES

- Independent research and development of high precision grating encoder.
- 23bit resolution digital galvo to achieve excellent positioning accuracy and repeat positioning accuracy .
- Real-time detection of galvanometer status to ensure safe and reliable operation of the galvanometer.
- All digital design guarantees extremely low drift and extremely high stability .

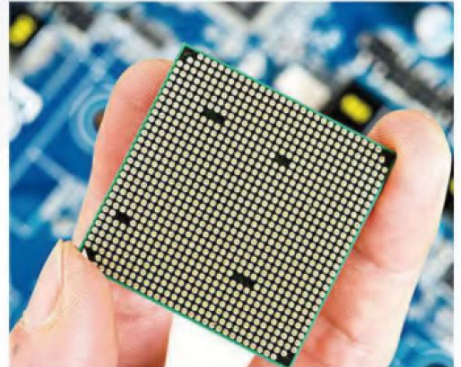
Our scanner systems can process no-metallic and partial metallic materials . It is widely used in many industries ,such as food packaging ,beverage packaging ,pharmaceutical packaging ,architectural ceramics ,buttons ,craft gifts ,electronic components ,mobile phone casings ,notebook and flat casing ,stripping ,film cutting ,PCB bar code ,shell name-plate,etc.



3D打印
SLM



光伏
Photovoltaic



半导体
semiconductor

Technical Parameters

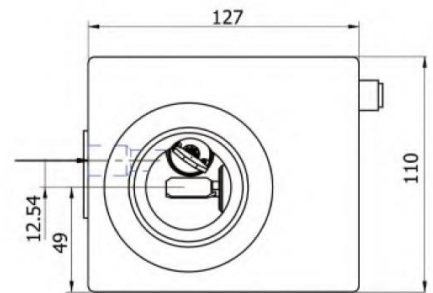
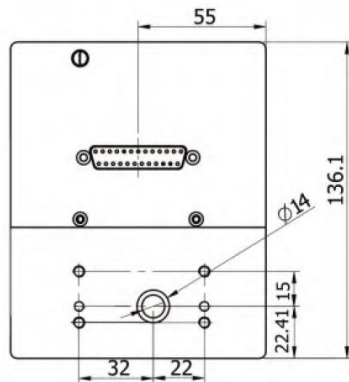
ExtraScan I	10mm	14mm	20mm	30mm
Input Beam Aperture (mm)	10	14	20	30
Beam Displacement (mm)	12.54	16.42	25.25	35.53
Tracking Error (ms)	0.3	0.40	0.65	1.2
Repeatability (μ rad)	<1	<1	<1	<1
Offset Drift (μ rad/K)	<15	<15	<15	<15
Gain Drift (ppm/K)	<8	<8	<8	<8
Long-term drift over 8 hours (mrad)	<0.1	<0.1	<0.1	<0.1
1% of full scale (ms)	0.55	0.85	1	1.50
10% of full scale (ms)	1.4	1.80	3	5
Positioning Speed (m/s)	7	5	3	2
Typical Scan Angle ($^{\circ}$)	± 25			
Gain Error (mrad)	<5			
Zero Offset (mrad)	<5			
Nonlinearity (%)	<0.1			
Power Requirements	± 15 VDC, ≥ 3 A			
Communication Protocol	16Bit :XY2-100 20Bit:ST2-100			
Operation Temperature ($^{\circ}$ C)	25 ± 10			
Weight (kg)	1.9	2.3	5.0	5.2

Remark:

- ① Test with F=160mm F-theta lens
- ② All angles are in optical degrees

TECHNICAL DRAWING

ExtraScan 10mm



Technical Parameters

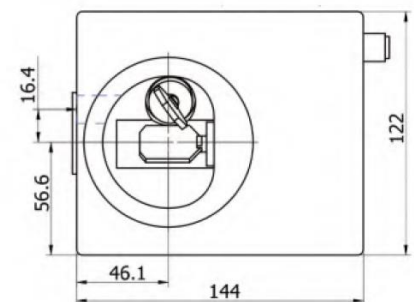
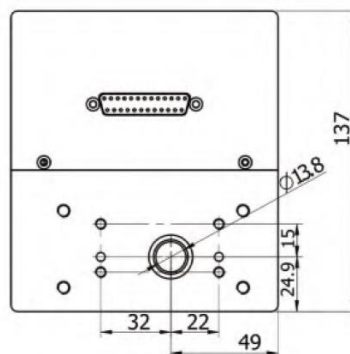
ExtraScan II	10mm	14mm	20mm	30mm
Input Beam Aperture (mm)	10	14	20	30
Beam Displacement (mm)	12.54	16.42	25.25	35.53
Tracking Error (ms)	0.2	0.25	0.5	0.80
Repeatability (μ rad)	<1	<1	<1	<1
Offset Drift (μ rad/K)	<15	<15	<15	<15
Gain Drift (ppm/K)	<8	<8	<8	<8
Long-term drift over 8 hours (mrad)	<0.08	<0.08	<0.08	<0.08
1% of full scale (ms)	0.45	0.6	0.85	1.30
10% of full scale (ms)	1.30	1.50	2.60	4.80
Positioning Speed (m/s)	10.0	7.0	5.0	3.0
Typical Scan Angle ($^{\circ}$)	± 25			
Gain Error (mrad)	<5			
Zero Offset (mrad)	<5			
Nonlinearity (%)	<0.1			
Power Requirements	± 15 VDC, ≥ 3 A			
Communication Protocol	16Bit :XY2-100 20Bit:ST2-100			
Operation Temperature ($^{\circ}$ C)	25 ± 10			
Weight (kg)	1.9	2.3	5.0	5.2

Remark:

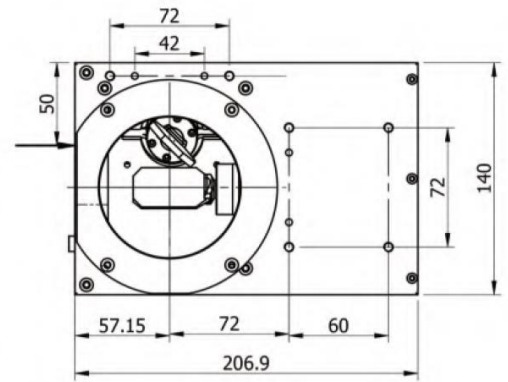
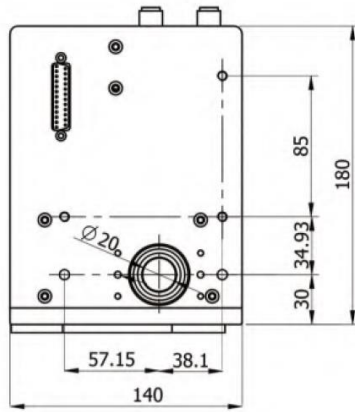
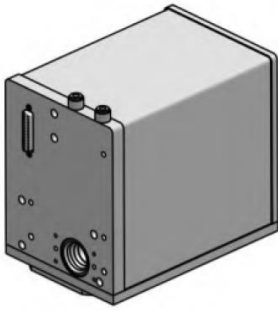
- ③ Test with F=160mm F-theta lens
- ④ All angles are in optical degrees

TECHNICAL DRAWING

ExtraScan 14mm



ExtraScan 20mm



ExtraScan 30mm

