DYNAMIC FOCUS MODULE

FEATURE

High-precision grating encoder as feedback with 25 bit position resolution

Extremely low noises , excellent linearity and minimal drift .

FPGA-based digital processing driver technology with excellent anti-interference ability and dynamic performance .

Able to compose 3D module with galvanometer scanner and successfully used in laser making applications such as 3D marking , large format processing,etc.

INDUSTRY APPLICATIONS

Able to compose 3D module with galvanometer scanner and has been successfully used in laser marking applications such as 3D marking ,large format processing ,etc. It can also be used in ultra fast 3D machining ,micro maching,surface marking and depth carving .

3D打标
3D marking
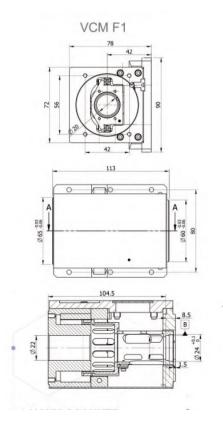
3D打印
SLM

激光模切
Laser module cutting
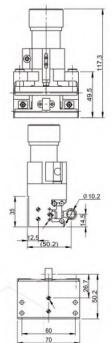
VCM F1 & VCM Z & VCAM Z

Technical Parameters

	VCM F1	VCM G2	VCM Z
Input Beam Aperture（mm）	20	≤22	14
Output Beam Aperture（mm）	40	/	14
Travel length（mm）	≤20	9	±15(Focus range)
Tracking Error（ms）	0.7	1.5(≤16mm Lens diameter)	≥0.15
		2.2（18mm-22mmLens diameter）	
Typical Speed (mm/s)	≤180	≤100	/
Focus speed（m/s）	/	/	up to 20m/s (f=160mm)
Repeatability (μm)	＜0.5	＜1	＜1
Nonlinearity（%）	0.05	2	0.4
Long-term Drift over 8 hours (μm)	＜3	＜10	＜6
Power Requirement	±15VDC, ≥3A		
Communication Protocol	XY2-100		
Operation Temperature（℃）	25±10		

TECHNICAL DRAWING