RAY-MOTION®
dedicated to motion
www.ray-motion.com

Quantum 10/12/14

Digital

Quantum Series

Totally digital 2D galvanometer system. System operate based on the embedded platform. It is compact, stable and high quality. More fast and accuracy. The offset drift and gain drift are very low. Mirrors of typical laser wavelength is available and optimized for inertial and stiffness. Suitable for high end application like ITO scratching, laser micro processing etc.

昆腾系列

全数字的二维扫描振镜系统，使用先进的控制算法实现振镜马达的高速高精度运行。产品结构紧凑、质量稳定可靠、性能指标高。零点漂移和增益漂移非常低，而这些参数对于很多高端应用特别重要。相比于亚腾系列，昆腾具有更高的响应速度。特别适合一些高速高精度的应用场合，例如ITO薄膜蚀刻，激光微加工系统等。

鞍山精准光学扫描技术有限公司
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Quantum Specifications

昆腾 规格参数

所有角度均为光学角(All angles are in optical degrees)

	Quantum10	Quantum12	Quantum14
输入光束孔径 Aperture	10mm	12mm	14mm
光束偏移 Beam displacement	13mm	14.5mm	18.1mm
追踪时间 Tracking error time	135us	160us	200us
零点漂移 Offset drift	30urad/K	30urad/K	30urad/K
增益漂移 Gain drift	50ppm/K	50ppm/K	50ppm/K
阶跃响应时间 Step response time			
1% 全范围响应时间 1% of full scale	0.3ms	0.3ms	0.5ms
10%全范围响应时间 10% of full scale	0.8ms	0.8ms	1ms
标记速度 Marking speed(1)	2.5m/s	2m/s	2m/s
定位速度 Positioning speed	15m/s	11m/s	8m/s
书写速度 Writting speed(2)			
Good quality	800cps	660cps	550cps
High quality	500cps	410cps	350cps
可重复性 Repeatability	<15urad	<15urad	<15urad
8小时以上长期漂移 Drift over 8 hours	<0.1mrad	<0.1mrad	<0.1mrad
(环境温度恒定且接有水冷系统 After 30min warm-up and with water cooling)			
标准扫描角度 Typical scan angle	40 degrees	40 degrees	40 degrees
最大激光功率 Max laser power(3)	100W	150W	200W
接口协议 Interface(4)(optional)	XY2-100/XY2-100-EH		
工作环境温度 Operating temperature	25±10℃		
额定电源容量 Power requirements	±15V DC, 150W		
驱动方式 Driver mode	Digital		
位置分辨率 Resolution	16Bit		

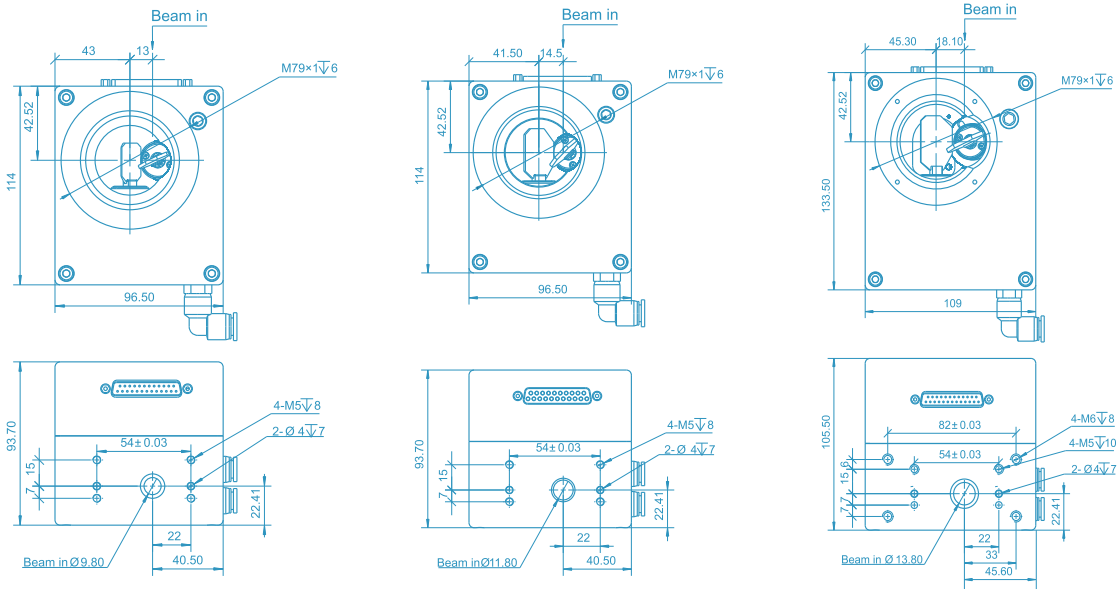
(1)with F-Theta objective,f=160mm

(2)single-stroke characters of 1mm height

(3)The mirror of 1064nm can stand max laser power

(4)XY2-100-EH with status feedback

上述资料如有更改，将不作另行通知 The above information is subject to change without notice. 01/2021



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