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

3D Pre-Scanning Solution

Digital

- This solution includes a 2D galvoscanner system Quantum, a dynamic focus unit Proton series, and a galvo system controller UMC4. It uses the Pre-Objective Scanning technology to realize the large field and 3D laser application. The advantage of this system: fast, small focal spot, small power loss.

- 该解决方案包含Quantum二维扫描振镜系统、Proton 动态聚焦单元及专用控制软件。使用前聚焦技术，能够实现多尺寸规格大幅面及立体标记应用，该系统优点：标记速度快、峰值能量高、聚焦光斑小、功率损耗小。

鞍山精准光学扫描技术有限公司
Anshan Precision Optical
Scanning Technology CO.,Ltd

辽宁省鞍山市高新区激光产业园南园3#楼
3#Building,Laser Industrial Park(South),
High-tech Industrial Development Zone,AnShan

TEL:86-412-5297375
FAX:86-412-5297370
www.ray-motion.com
info@ray-motion.com

dedicated to motion

RAY-MOTION®

www.ray-motion.com

3D Pre-Scanning Solution Specifications

前聚焦3D扫描系统 规格参数

二维扫描振镜请参照 Quantum14/20/30规格书（2D galvo reference to Quantum14/20/30 datasheet）

CO2激光器(λ=10600nm)配置实例:QP-30

工作范围 Working dimension	600x600mm	800x800mm
光斑直径 Spot diameter	364um	487um
工作距离 Working distance	777mm	1051mm
分辨率 Resolution	9um	12um

Nd:YAG激光器（λ=1064nm）配置实例：QP-20/30

工作范围 Working dimension	400x400mm	600x600mm	800x800mm
光斑直径 Spot diameter			
QP-20	34um	52um	—
QP-30	—	36um	48um
工作距离 Working distance			
QP-20	502mm	777mm	—
QP-30	—	777mm	1051mm
分辨率 Resolution	6um	9um	12um

紫外激光器(λ=355nm)配置实例：Quantum14+Proton

工作范围 Working dimension	400x400mm	600x600mm
光斑直径 Spot diameter	17um	26um
工作距离 Working distance	520mm	795mm
分辨率 Resolution	6um	9um

注意：

1、上述资料如有更改,将不做另行通知。 The above information is subject to change without notice. 02/2017

2、以上参数均为理论值。All of the above parameters are theoretical values.

3、扫描振镜下沿到工作平面的距离。该距离取决于产品型号，并随着激光发散角和物镜公差而有所不同。
Distance between edge of deflection unit and working surface. This distance is dependent on the product model and will vary with laser divergence and objective tolerance.

4、实际光斑尺寸和写入速度取决于材料及应用。
Actual spot size and writting speed are dependent on material and application.

鞍山精准光学扫描技术有限公司
Anshan Precision Optical Scanning Technology CO.,Ltd

辽宁省鞍山市高新区激光产业园南园3#楼
3#Building,Laser Industrial Park(South),
High-tech Industrial Development Zone,AnShan

TEL:86-412-5297375
FAX:86-412-5297370
www.ray-motion.com
info@ray-motion.com

dedicated to motion

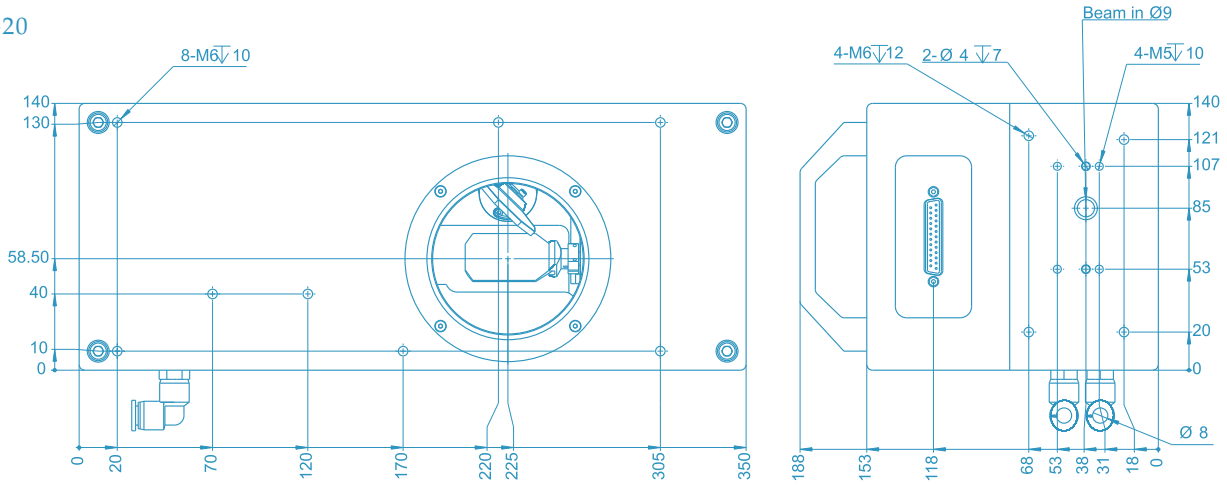
RAY-MOTION®

www.ray-motion.com

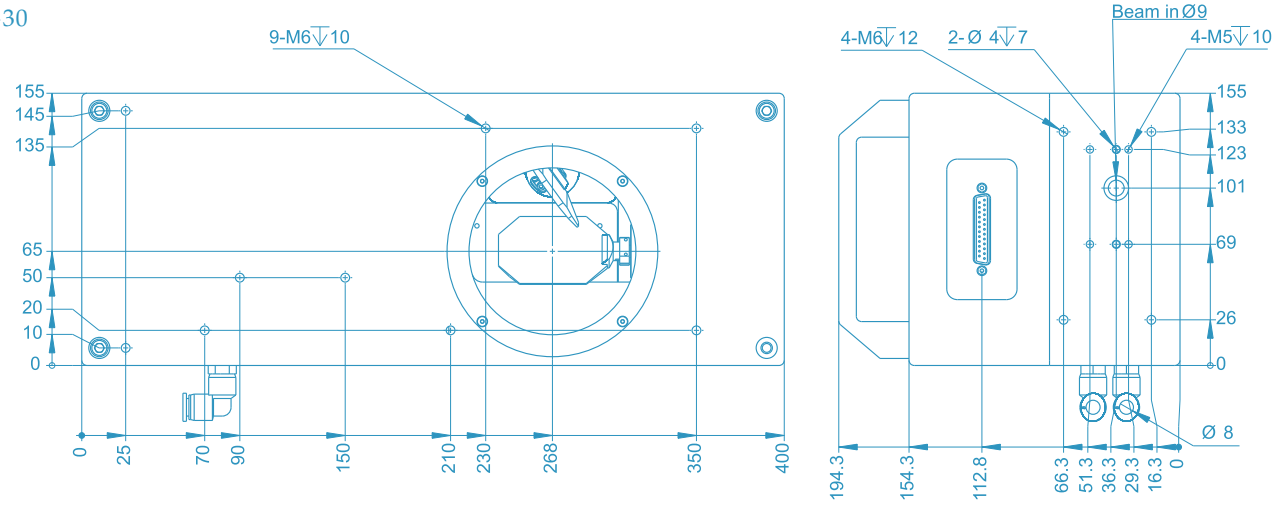
3D Pre-Scanning Solution Mechanical Drawings

前聚焦3D扫描系统　机械图纸

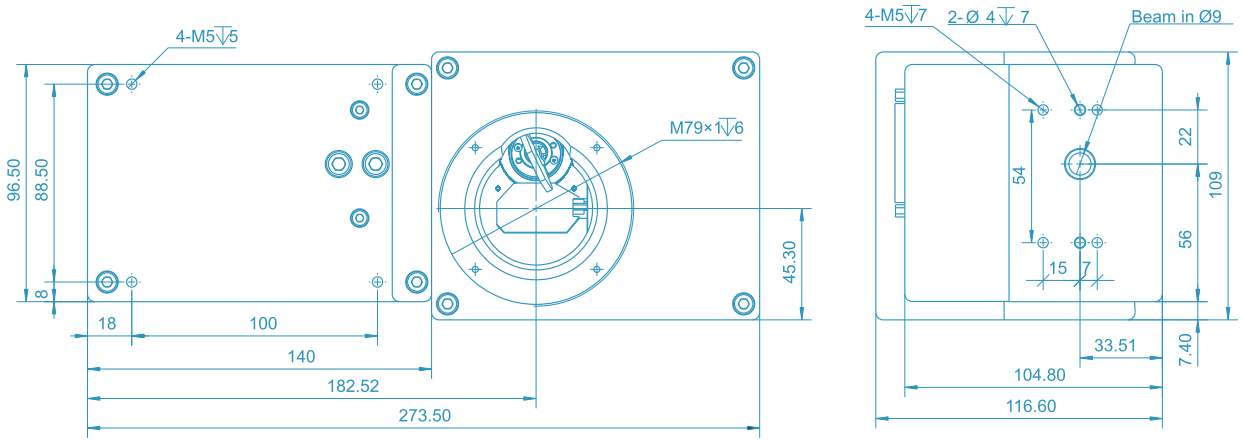
QP-20



QP-30



Quantum14+Proton



注：具体尺寸以实际为准，鞍山精准有权对图纸进行变更。上述资料如有更改，将不做另行通知。

Specific size is in accordant with the final product, Anshan precise have the right to make the change of the drawing. The above information is subject to change without notice.02/2017

鞍山精准光学扫描技术有限公司
Anshan Precision Optical Scanning Technology CO.,Ltd

辽宁省鞍山市高新区激光产业园南园3#楼
3#Building,Laser Industrial Park(South), High-tech Industrial Development Zone,AnShan

TEL:86-412-5297375
FAX:86-412-5297370
www.ray-motion.com
info@ray-motion.com