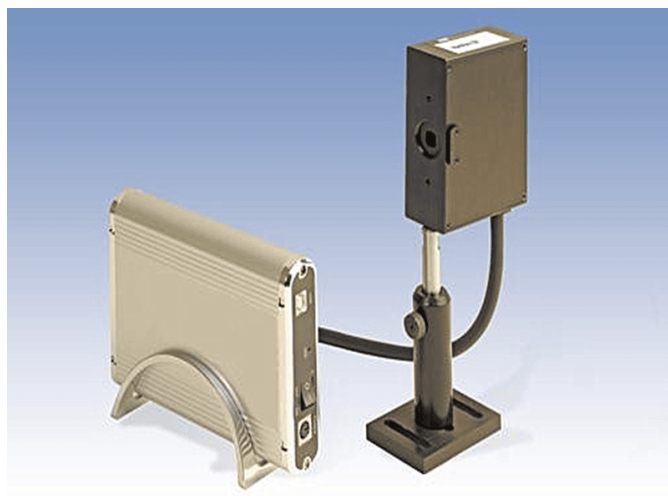




DUMA 刀口型光斑分析仪 350-1100nm



产品描述:

基于10毫米直径的光束质量分析仪USB系统。

InGaAs传感器。BA7 InGaAs是一种桥接技术，提供高分辨率的测量，产生3-D强度重建轮廓，类似于从C-MOS相机获得的图像。这款设备是光束分析仪USB中的一款。

产品特点:

具有高动态范围和高分辨率

实时检测光束质量、尺寸和高斯拟合，显示光束2D/3D图像

无像差光束衰减，由放置在扫描平面的光学滤波器实现

紧凑的小尺寸设备，操作简单

12位A/D，采样高分辨率，采用USB2.0接口

Excel数据存储，RS232或TCP/IP数据传输

可保存快照图像

自动验证分析报告

产品应用:

激光光斑分析：光束的中心，椭圆度，光束宽度，形状，位置，功率和强度分布

光束对准

在线监测

高斯拟合分析

光束位置测量

激光光束优化和质量控制



通用参数:

激光类型	CW
光束宽度分辨率	对于尺寸>100μm的光束:1μm
	对于尺寸<100μm的光束:0.1μm
光束大小	3μm-5mm for BA3-Si and BA3-UV
	15μm-10mm for BA7-Si and BA7-UV (Oval 椭圆)
	15μm-9mm for BA7-Si and BA7-UV (Round 圆形)
	3μm-3mm for BA3-IR3 and BA3-IR3-E
	15μm-3mm for BA7-IR3 and BA7-IR3-E
	3μm-5mm for BA3-IR5
	15μm-5mm for BA7-IR5
光谱范围	Si 350-1100nm
	UV-Si 190-1100nm
	IR 800-1800nm
	IR Enhanced (E) 1200-2700nm
传感器有效光敏面直径 (mm)	Φ3-Φ10 具体取决于型号
刀片数量	3 for BA3 heads, 7 for BA7 heads
增益控制	Automatic 自动
帧频	5 fps
功率范围	10 μW to 5 mW (no filters 没有过滤器)
传感器类型	Silicon (Si) ,UV-Silicon (UV-Si) InGaAs (IR) or IR Enhanced (IRE)
光束宽度精度	±2%
功率精度	±10%
位置分辨率	1 μm
像素大小	根据光束大小进行自适应
像素位深度	12 bits
背景消除	Automatic

附件	SAM3-B光束采样器:带安装适配器。采样减少系数0.0016平均值
	BA光纤:带有FC连接器的光纤适配器
电源	~2.5 Watt (Via USB 2.0 interface)
尺寸 (L x W x H) in mm	105 x 87 x 35 (Head)
重量 (typical)	Sensor head with cable - 755 gr, manifold box 350 gr
Min. 硬件要求	CPU i3 1.6 GHz, 4 GB RAM
接口	USB 2.0, Windows 7/8/10 (32 & 64 bit)
工作温度	0° – 35° C



Technical drawings of the 162 Ref. device, showing isometric and orthographic views with dimensions.

Isometric Views:

- Top-left: Purple isometric view of the device.
- Top-right: Grey isometric view of the device.
- Bottom-right: Small grey isometric view of the device.

Orthographic Views and Dimensions:

- Top View:** Shows a square footprint with overall dimensions of 152.8 Ref. (width) and 121 (height). A central circular feature has a diameter of $\Phi 58$. A cable outlet is located on the left side, with a distance of 37.6 from the left edge and 3.5 from the bottom edge. A 13mm wide feature is at the bottom center.
- Front View:** Shows a height of 127 and a width of 60. A central vertical feature has a diameter of $\Phi 11$. Three M4 threads are located on the left side, with a distance of 35.2 from the top edge and 15 from the bottom edge.
- Side View:** Shows a height of 105 and a width of 87. A central circular feature has a diameter of $\Phi 58$. A cable outlet is located on the left side, with a distance of 37.6 from the left edge and 3.5 from the bottom edge. A 13mm wide feature is at the bottom center.
- Bottom View:** Shows a height of 15 and a width of 15. A central circular feature has a diameter of $\Phi 9$. An M22x0.5 thread is located on the right side, with a distance of 50 from the bottom edge and 15 from the right edge.

BA-7 (Dimensions in mm)

Front View: Shows a rectangular unit with a width of 35.2 mm and a height of 105 mm. The entrance aperture is located 50 mm from the top edge and 15 mm from the right edge. The aperture is 52.5 mm high and 3.5 mm wide. Two M4 threads are located 35.2 mm apart at the bottom.

Side View: Shows the unit's profile with a width of 87 mm and a height of 105 mm. A removable filter is located 3.5 mm from the bottom edge.

Rear View: Shows the unit's back with a width of 15.1 mm and a height of 105 mm. Three M4 threads are located 15.1 mm apart at the bottom.