

ParalMAT 电子式光学平行差测量仪

ParalMAT ELECTRONIC OPTICAL-PARALELLISM ERROR MEASUREMENT EQUIPMENT



产品特性 (Features)

- ± 1.0 秒光学平行差测量精度 (Up to ± 1.0 arc sec parallelism error measurement accuracy);
- 最大值测量或X、Y双轴独立测量 (Max. Parallelism error or dual-axis error measurements);
- 高分辨率图像传感器 (High resolution image Sensor);
- 软件直接显示测量结果，无需人工读数 (Software calculated measurement results automatically);
- 可打印的测量报表 (Printable measurement report);
- 长寿命LED光源 (Long life Light Sources);
- 全数字信号处理 (Digital image processing technology);
- 即插即用USB接口 (USB 2.0 high speed interface);
- 小型化设计 (Compact design);
- 低成本 (Low cost);

ParalMAT电子式光学平行差测量仪采用光学自准直仪原理及高精度数字图像处理技术完成对光学平晶、光学窗口或光楔的平行差测量，测量软件可同时对两个正交方向的平行差或最大值进行测量，提供 ± 1.0 角秒的测量精度。

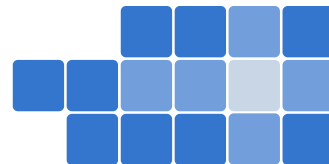
ParalMAT由一个电子自准直平行光管和一个可调节高度的升降底座组成。运行于上位计算机的测量软件可显示电子目镜及测量数据，并可将数据保存为Excel兼容格式并进行报表打印；产品采用了小型化设计技术，为用户提供了高性价比的平行差测量检测方案。

The ParalMAT is a digital electronic optic-parallelism error measurement equipment for optical flat, optical window or optical wedge etc,. The measurement precision can be up to 1.0 aresec. It also features a software displayed electronic viewfinder and automatic measurements for two directional parallelism error or the maxium error.

The ParalMAT is constructed with a auto-collimator and a adjustable stage for the measurements. Measurement results can be stored as a EXCEL compatible format or print as a report.

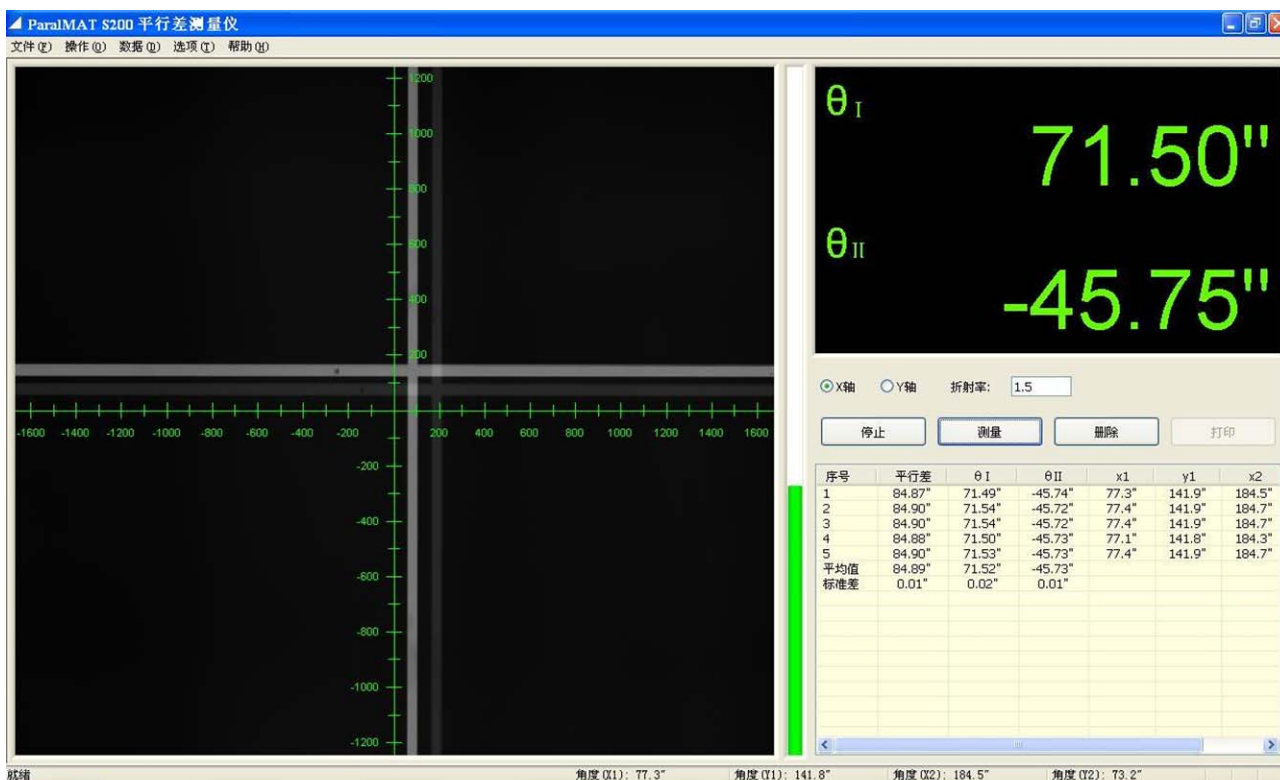
典型应用 (Typical Applications)

- 光学平晶检测 (Optical Flat measurement);
- 光学窗口平行度测量 (Parallelism error measurements for optical windows);
- 光楔检测 (Optical Wedge measurements);



平行差测量仪 (Optical Parallelism)

Measure with Precision



叠加电子标尺的实时视频图像显示界面 (Layer display of video image and software reticles)

规格 (Specifications)

型号	Order Number	ParalMAT S200
物镜焦距 (Focal Length)		200mm
物镜口径 (Lens Diameter)		38mm (NA. = 90%)
光源类型 (Light Source)		大功率半导体光源 LED Light Source (中心波长 $\lambda=630\text{nm}$)
探测器 (Sensors)		高分辨率图像传感器 (High Resolution Image Sensor)
目镜 (Viewfinder)		实时视频影像 (Real-time Video Display)
测量频响 (Measuring Frequency)		3Hz TYP.
接口 (Interface)		USB 2.0 High Speed Interface
最大读数视场 (Measuring Range)		1800" (arc sec. 角秒) × 1600" (arc sec. 角秒)
分辨率 (Resolution)		0.1" (arc sec. 角秒)
精度 (Accuracy)		±1" (arc sec. 角秒)
重复性 (Repeatability)		0.5" (arc sec. 角秒)
工作台尺寸 (Stage Table Dimensions)		255mm(L) × 200mm(W)
高度调节范围 (Elevating Range)		0 ~ 200mm
重量 (Weight)		15KG
选配件 (Optional Accessories)		ZT100 旋转工作台