

光电自准直仪 LOW COST ELECTRONIC AUTO-COLLIMATOR



ULTRA-2040B及BH54二维可调底座

AutoMAT ULTRA系列产品在设计上兼顾了成本和性能的完美组合，具有体积小、操作简易和高可靠性的一系列优点；0.3角秒的测量精度以及完善的配附件系统使得该系列产品尤其适用于机械制造和光学制造现场使用。

The **AutoMAT ULTRA** series is a robust and compact series of autocollimators. This series of products, are designed with perfect balance between cost and performance purpose, while with easy operation and high reliability features make it well suited for field test and measurement in mechanical and optical applications.

规格 (Specifications)

| 型号 | Order Number | ULTRA-2040B | ULTRA-2045B | ULTRA-3045A |
|----------------------------|----------------------|-----------------------------------------------------------|---------------------------|-----------------------------------|
| 物镜焦距 (Focal Length) | | 200mm | 200mm | 300mm |
| 物镜口径 (Lens Diameter) | | 40mm (NA. = 80%) | 45mm (NA. = 80%) | 45mm (NA. = 80%) |
| 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 Sensors) | | |
| 目镜 (Viewfinder) | | 软件显示的电子目镜 (Electronic Viewfinder with Software Crosshair) | | |
| 测量频响 (Measuring Frequency) | | 7.5Hz TYP. | 7.5Hz TYP. | 7.5Hz TYP. |
| 接口 (Interface) | | USB 2.0 High Speed Interface | | |
| 测量距离 (Measuring Distance) | | 10米 (10 meter MAX.) | 18米 (18 meter MAX.) | 10米 (10 meter MAX.) |
| 最大读数视场 (Measuring Range) | | 3000"×2400" (arc sec. 角秒) | 3000"×2400" (arc sec. 角秒) | 2000"×1400" (arc sec. 角秒) |
| 分辨率 (Resolution) | | 0.1" (arc sec. 角秒) | 0.1" (arc sec. 角秒) | 0.1" (arc sec. 角秒) |
| 精度 (Accuracy) | ±100" (arc sec. 角秒) | 0.5" (arc sec. 角秒) | 0.5" (arc sec. 角秒) | 0.3" (arc sec. 角秒) |
| | ±1000" (arc sec. 角秒) | 1" (arc sec. 角秒) | 1" (arc sec. 角秒) | 0.6" (arc sec. 角秒) ^[1] |
| 外形尺寸 (Dimensions) | | 280mm(L)×80mm(W)×140mm(H) | 280mm(L)×80mm(W)×140mm(H) | 380mm(L)×100mm(W)×140mm(H) |
| 重量 (Weight) | | 2.5KG | 2.5KG | 3.0KG |

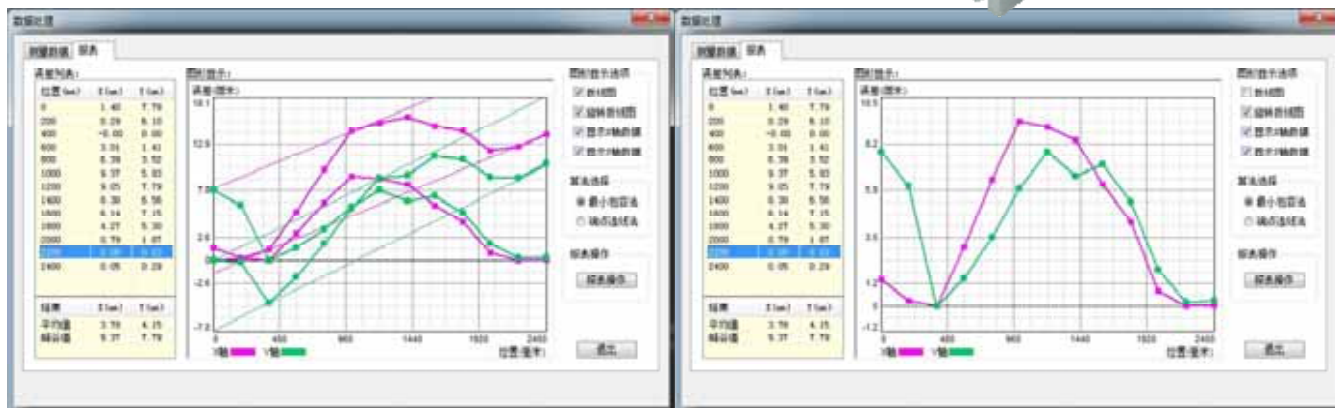
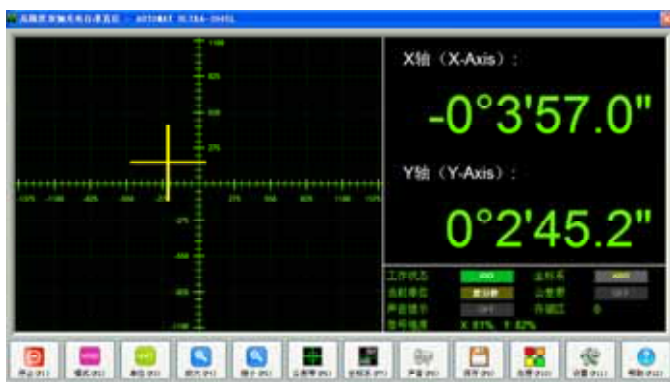
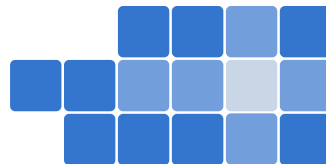
[1] ULTRA-3045A精度指标为全视场 (Specification for ULTRA-3045 is for entire measuring range);

产品特性 (Features)

- 0.3角秒测角精度 (Up to 0.3 arc sec accuracy);
- XY双轴同时测量 (Dual-axis measurements);
- 电子目镜 (Electronic viewfinder);
- 高分辨率图像传感器 (High resolution Image Sensors);
- 长寿命LED光源 (LED 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);
- 丰富的测量配附件 (Rich accessories);

典型应用 (Applications)

- 精密机械安装定位 (Alignment of machinery);
- 机械产品直线度、平面度、垂直度、平行度等精度保障 (Proof for straightness, flatness, parallelism of rails, tables and linear stage etc.);
- 精密旋转台检测 (Rotary table measurement);
- 光学产品装配及调整 (Assembly and adjustment of optical components like mirrors, prisms, windows, wedges etc.);
- 物理及光学实验室 (Alignment of components for the beam control in high energy physics);



标准附件 (Standard Accessories)



MA60^[1]
标准反光镜
Standard Mirror



AH54^[1]
二维可调底座
Adjustable Holder



BH54^[2]
二维可调底座
Adjustable Holder

[1] ULTRA-3045A标准配置配件 (Standard Configuration included for ULTRA-3045A);
[2] ULTRA-2045B/2040B标准配置配件 (Standard Configuration included for ULTRA-2045B/2040B);