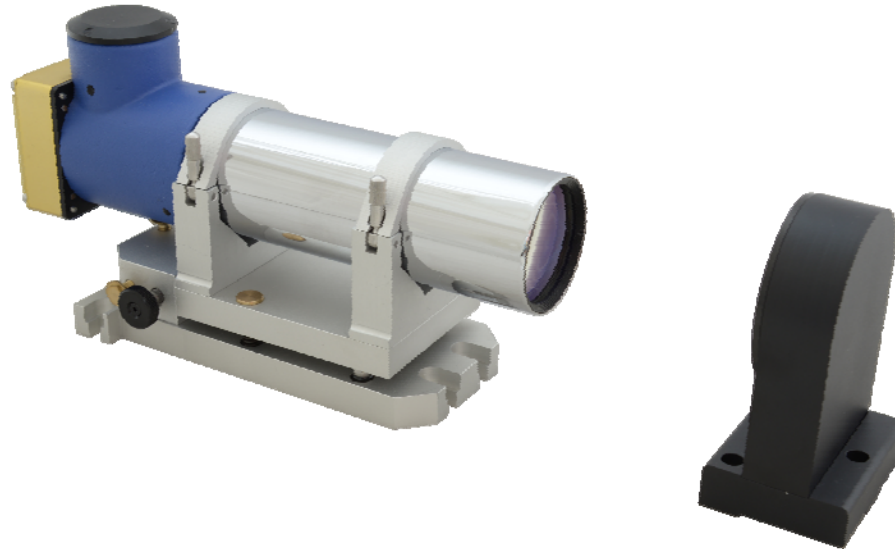


千兆网接口双轴光电自准直仪 ELECTRONIC AUTO-COLLIMATOR WITH GIGE INTERFACE



产品特性 (Features)

- XY双轴同时测量 (Dual-axis measurements);
- 三倍于USB接口的传输速率 (High-speed GIGE interface);
- 标准线缆可支持100米传输距离 (Up to 100 meter cable length);
- 无延时的实时视频显示 (Real-time video display);
- 可作为准直望远镜使用 (Used as telescopes);
- 小型轻量化设计 (Compact Design);
- 全数字信号处理 (Digital image processing technology);

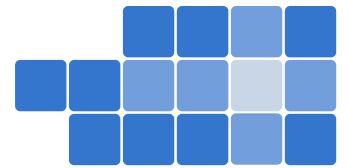
典型应用 (Applications)

- 光学产品装配及调整 (Assembly and adjustment of optical components like mirrors, prisms, windows, wedges etc.);
- 光学瞄准及测量 (Alignment of components for the beam control and measurements);
- 舰载设备 (Ship-based measuring equipments);
- 核电设施远程监控应用 (Ranged surveillance for nuclear plant);
- 多机多轴检测系统 (Multi-Axis auto-collimating measuring systems);

规格 (Specifications)

型号 Order Number	CE-2048	CE-3048
物镜焦距 (Focal Length)	200mm	300mm
物镜口径 (Lens Diameter)	48mm (NA. = 85%)	48mm (NA. = 85%)
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)	电子目镜及实时视频影像 (Electronic Viewfinder and Video Display)	
测量频响 (Measuring Frequency)	30Hz TYP.	
接口 (Interface)	Gigabit Ethernet	
测量距离 (Measuring Distance)	20米 (20 meter MAX.)	10米 (10 meter MAX.)
最大读数视场 (Measuring Range)	3000"×2400" (arc sec. 角秒)	2000"×1400" (arc sec. 角秒)
分辨率 (Resolution)	0.01" (arc sec. 角秒)	0.01" (arc sec. 角秒)
测量精度 (Accuracy) ^[1]	1.0" (arc sec. 角秒)	0.6" (arc sec. 角秒)
重复性 (Repeatability)	0.3" (arc sec. 角秒)	0.2" (arc sec. 角秒)
外形尺寸 (Dimensions)	250mm(L)×95mm(W)×130mm(H)	350mm(L)×95mm(W)×130mm(H)
重量 (Weight)	2.45KG	2.7KG

[1] 测量精度指标按照 $\pm 1000''$ (角秒)且测量距离<1米范围界定 (Accuracy specification is in $\pm 1000''$ (arcsec.) range and <1 meter working distance.)



AutoMAT CE Seires

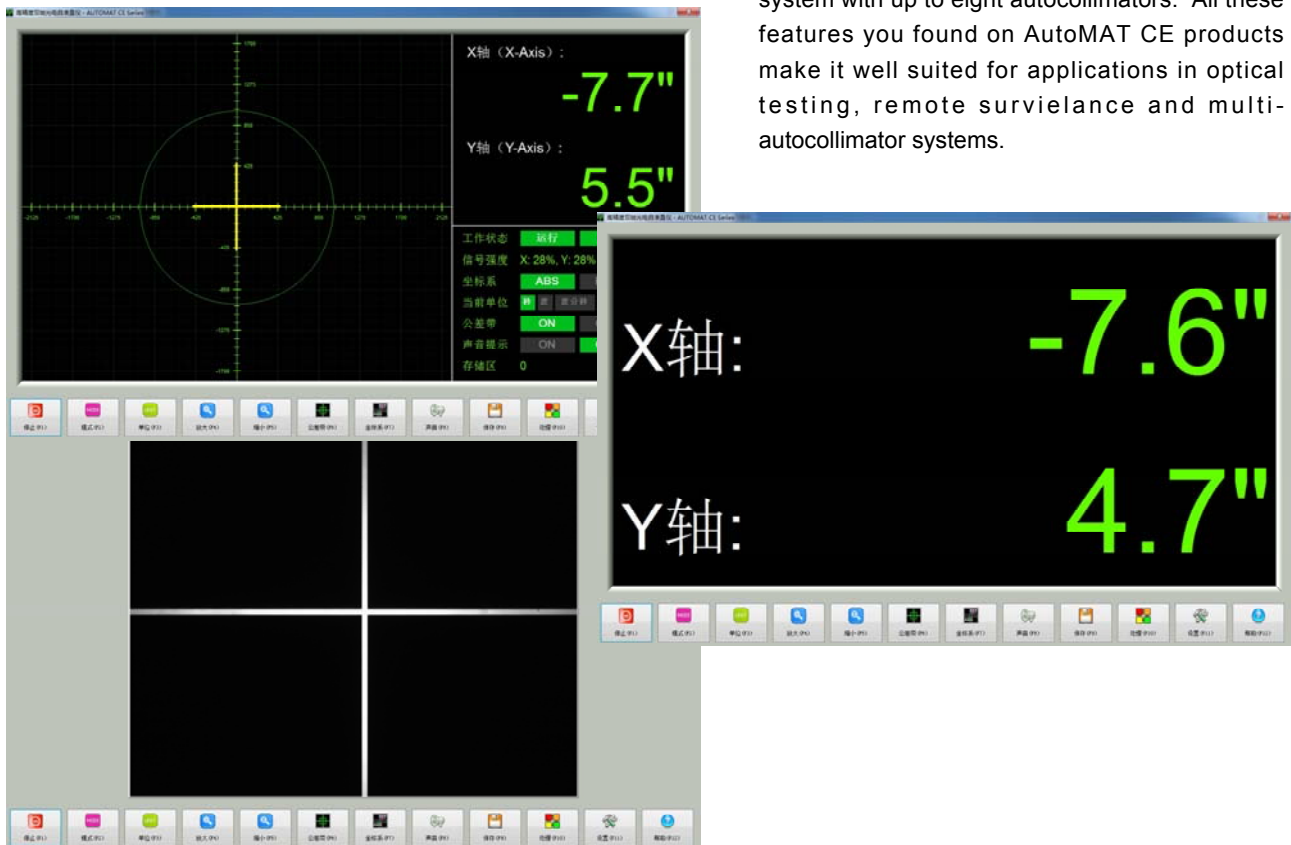
Measure with Precision

AutoMAT CE系列自准直仪基于Gigabit Ethernet（千兆网，GIGE）接口设计，与AutoMAT其它系列产品的USB接口和LVDS接口相比，GIGE接口平均速率比USB 2.0接口提供3倍以上，但低于LVDS接口速率，因此可实现中等速率的测量；在传输距离上，GIGE标准线缆即可达到100米的长距离传输，远高于其它接口。传输距离可通过我公司的光纤转换套件进一步扩展，更可达到20KM以上的超远距离。

除以上特点外，千兆网接口在多机多轴测量应用中也有着巨大的优势，用户仅需扩展主机的网络接口即可进行多机测量应用并且无需负担高额的扩展成本。**AutoMAT CE**的这些特征使之尤其适用于各类光学检测、远程测量及监测、多光轴测量系统等应用领域。

The **AutoMAT CE** series is a Gigabit Ethernet (GIGE) based autocollimators. GIGE interface has many features compares with USB 2.0 and LVDS interface found in our other AutoMAT products. The average transfer speed is about triple times than USB 2.0 interface but slower than LVDS. It can achieve higher measuring frequency according to our USB autocollimators. The transfer distance can easily up to 100 meter with standard cables, with the optional GIGE to fibre convertors, distance of transfer will goes up to 20km.

The nature of GIGE interface in CE series products also best fit multi-axis measurement system with up to eight autocollimators. All these features you found on AutoMAT CE products make it well suited for applications in optical testing, remote survielance and multi-autocollimator systems.



标准附件 (Standard Accessories)



MA60
标准反光镜
Standard Mirror



AH54S
二维可调底座
Adjustable Holder