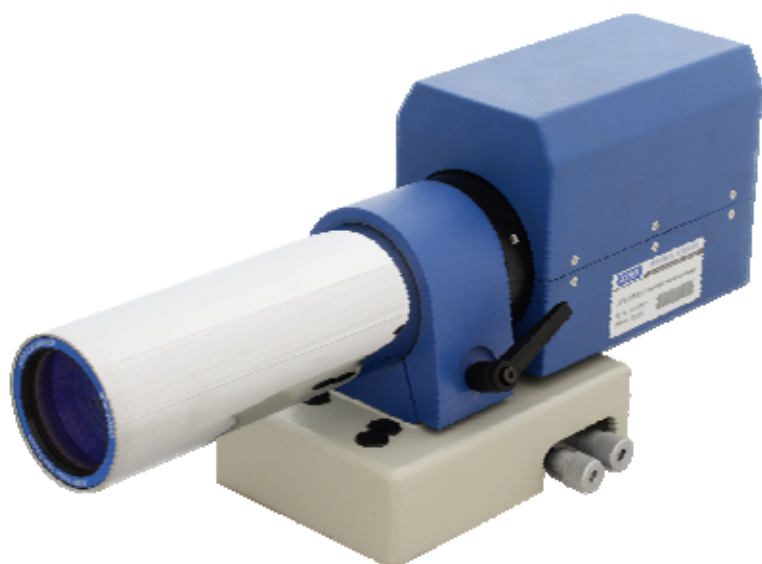




## 高速大视场双轴光电自准直仪 HIGH-SPEED & EXTRA MEASURING RANGE ELECTRONIC AUTO-COLLIMATOR



### 产品特性 (Features)

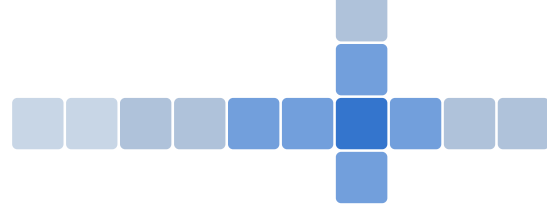
- 高达4°测量视场 (Up to 4° measuring range);
- 高达1KHz测量频响 (Up to 1KHz frequency);
- XY双轴同时测量 (Dual-axis measurements);
- 电子目镜 (Electronic viewfinder);
- 科学级高分辨率CCD传感器 (High resolution CCD Sensors);
- 长寿命LED光源 (LED Light Sources);
- 全数字信号处理 (Digital image processing technology);
- 丰富的测量配附件 (Rich accessories);

### 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);
- 航空航天 (Alignment of astronomical system);
- 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);

### 规格 (Specifications)

型号 Order Number	HV-2050	HV-3050
物镜焦距 (Focal Length)	200mm	300mm
物镜口径 (Lens Diameter)	50mm (NA. = 90%)	50mm (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)	两个科学级高分辨率探测器 (High Resolution Linear Sensors)	
目镜 (Viewfinder)	软件显示的大视野电子目镜 (Electronic Viewfinder with Software Crosshair)	
测量频响 (Measuring Frequency)	>1000Hz TYP.	
接口 (Interface)	LVDS High Speed Interface	
测量距离 (Measuring Distance)	2米 (2 meter MAX.)	2米 (2 meter MAX.)
测量范围 (Measuring Range)	$\pm 2^\circ$	$\pm 1.2^\circ$
分辨率 (Resolution)	0.1" (arc sec. 角秒)	0.1" (arc sec. 角秒)
全量程测量精度 (Accuracy)	$\pm 2''$ (arc sec. 角秒)	$\pm 1''$ (arc sec. 角秒)
重复性 (Repeatability)	0.5" (arc sec. 角秒)	0.4" (arc sec. 角秒)
外形尺寸 (Dimensions)	285mm(L)×130mm(W)×180mm(H)	385mm(L)×130mm(W)×180mm(H)
重量 (Weight)	7KG	7.4KG



## AutoMAT HV Seires

Measure with Precision

**AutoMAT HV**系列是基于AutoMAT 5000系列产品平台开发的高速光电自准直仪系列产品。该系列产品采用了最新的科学级高速CCD传感器，为用户提供了高达1KHz的测量采样频率。得益于大靶面的高速传感器，我们对产品的光学及结构部件进行了全新的设计，提供了较之前产品更大的读数视场。

**AutoMAT HV**系列产品的超大量程特性为用户测量系统的初始调校提供了更大的便利性；同时，无需额外的扩展配件即可完成大部分测量应用。该系列产品的高速性能则满足了各类振动/摆动测量、运动过程分析、稳定性验证等应用需求。

The **AutoMAT HV** series is our first generation of high-speed electric autocollimators product line. This series of products incorporate high-speed CCD sensors to achieve better than 1KHz measuring frequency. With newly designed optical and mechanical parts inside, this series also offer to user a large F.O.V range than ever.

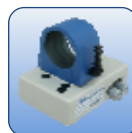
With the features of high-speed and large measuring range, the AutoMAT HV series is well suited applications of vibration measurements, swing ojects, motion analysis and measuring for stability like gyro-based stable systems.



### 标准附件 (Standard Accessories)



MA60  
标准反光镜  
Standard Mirror



DZ65  
二维可调底座  
Adjustable Holder