



高精度光电自准直仪

PRECISION ELECTRONIC AUTO-COLLIMATOR



AutoMAT 5000C系列产品采用LVDS高速工业总线接口标准设计，配有工业级嵌入式平板显示控制终端，满足了高精度现场测量及特定应用场合的使用需求。

The **AutoMAT 5000C** series autocollimator is designed for field applications which require quick and robust connection. It cooperate a small and readable color TFT touch-screen display unit with same measurement functions as laptop software and optional serial port extending capability.

产品特性 (Features)

- 0.1角秒测角精度 (0.1 arc sec accuracy);
- XY双轴同时测量 (Dual-axis measurements);
- 全金属外壳显示终端 (Full Metal Display Unit);
- 大视野电子目镜 (Expanded large-field 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);

规格 (Specifications)

型号	Order Number ^[1]	5000C-3050	5000CH-3050
物镜焦距 (Focal Length)		300mm	
物镜口径 (Lens Diameter)		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)		50Hz TYP.	
接口 (Interface)		LVDS专用高速数据接口 (Custom LVDS Interface)	
测量距离 (Measuring Distance)		10米 (10 meter MAX.)	
最大读数视场 (Measuring Range)		4000" (arc sec. 角秒)	
分辨率 (Resolution)		0.01" (arc sec. 角秒)	0.01" (arc sec. 角秒)
精度 (Accuracy)	$\pm 100''$ (arc sec. 角秒)	0.2" (arc sec. 角秒)	0.1" (arc sec. 角秒)
	$\pm 1000''$ (arc sec. 角秒)	0.5" (arc sec. 角秒)	0.3" (arc sec. 角秒)
重复性 (Repeatability)		0.05" (arc sec. 角秒)	
外形尺寸 (Dimensions)		405mm (L)×130mm (W)×168mm (H)	
重量 (Weight)		6.3KG	
显示控制终端尺寸 (Dimensions of Display Unit)		200mm(L)×140mm(W)×35mm(D)	
显示控制终端规格 (Specs. of Display Unit)		7' 英寸彩色液晶触摸屏 800×480分辨率 (7' TFT Touch LCD), 可选的RS-232扩展接口	

[1] 产品标准及选配附件请参考5000UH-3050 (Please refer to 5000UH-3050 for standard and optional accessories);