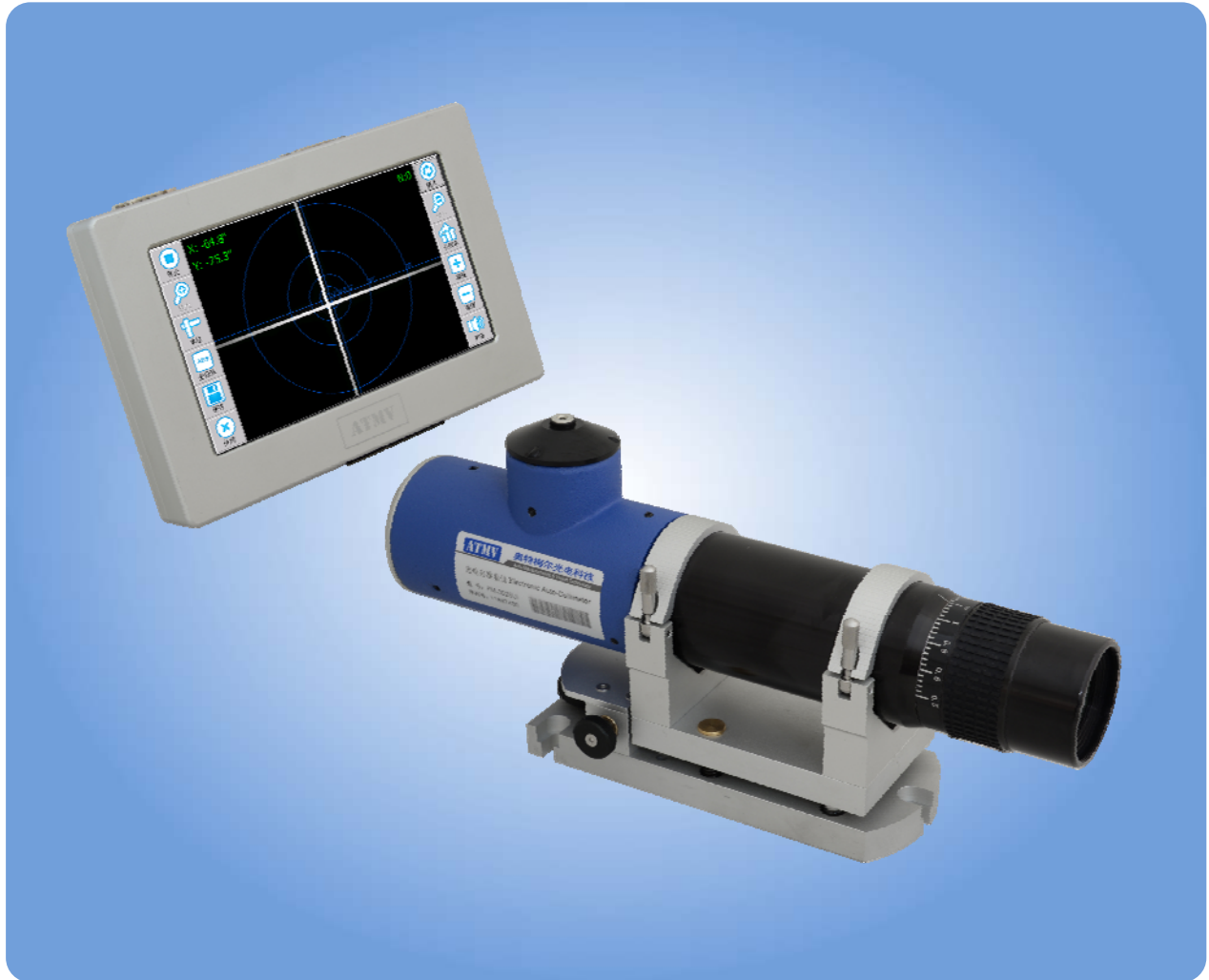


## 内调焦双轴光电自准直仪 INTERNAL FOCUSING ELECTRONIC AUTO-COLLIMATOR



**AutoMAT FM-I**内调焦光电自准直仪产品采用了经过优化设计的高精度浮动调焦镜组，结合奥特梅尔一贯秉承的高精度装配理念，可作为各类光学测量应用的首选设备。全系列FM产品采用了与AM系列产品相同的嵌入式显示控制器，可实时显示视频图像作为一个调焦望远镜使用，与FM外调焦产品相比，FM-I内调焦产品可达到更大的调焦范围，从而能够覆盖更大范围的应用领域。FM-I适合的测量应用包括光学系统共轴性测量、中心偏差测量和定心测量等。

The **AutoMAT FM-I** series is a robust internal focusing auto-collimator equipment that offer larger focusing range than standard FM series which can cover large range of optical applications. This series of products, integrate a high speed data interface and high resolution image sensor and same display unit as the AutoMAT AM series. The real-time video image & software reticle display make the equipment also function as a standard focusing telescope.

## AutoMAT FM-I Series

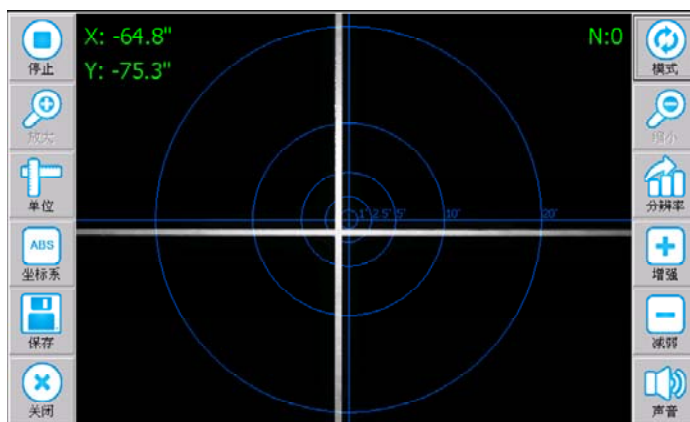
Measure with Precision

### 产品特性 (Features)

- 内调焦设计 (Internal Focusing);
- 嵌入式显示终端 (Embedded Display Unit);
- 实时视频影像显示功能 (Real-time Video Display);
- XY双轴同时测量 (Dual-axis measurements);
- 高分辨率图像传感器 (High resolution Image Sensors);
- 电子分划板技术 (Software Reticle);
- 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);
- 选配的上位机测量软件模块 (Optional PC Software Package);

### 典型应用 (Applications)

- 航空航天 (Alignment of astronomical system);
- 光学产品装配及调整 (Assembly and adjustment of optical components like lens, lens systems, prisms, laser tubes etc.);
- 物理及光学实验室 (Alignment of components for the beam control in high energy physics);



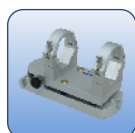
### 规格 (Specifications)

型号	Order Number	FM-3025UI / FM-3025LI
物镜焦距 (Focal Length)		300mm
物镜口径 (Lens Diameter)		25mm (N.A. = 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 Sensors)
目镜 (Viewfinder)		叠加软件分划板的实时视频影像 (Real-time Video with Software Reticle)
视频帧率 (Video FPS)		15FPS / 25FPS
接口 (Interface)		USB接口 (USB Interface) / LVDS接口 (LVDS Interface)
无穷远视场范围 (Infiniti Viewing Angle)		0.5° (度)
自准直测量分辨率 (Resolution)		0.01" (arc sec. 角秒)
自准直测量精度 (Auto-collimation Accuracy)		1.0" (arc sec. 角秒)
调焦范围 (Focusing Range)		- $\infty$ ~-320mm , + $\infty$ ~+420mm
调焦线性度 (Focusing Linearity)		优于 $\pm 0.02\text{mm}$ (No more than $\pm 0.02\text{mm}$ )
外形尺寸 (Dimensions)		310mm(L)×95mm(W)×120mm(H)
重量 (Weight)		2.4KG

### 标准附件 (Standard Accessories)



MA60  
标准反光镜  
Standard Mirror



BH54  
二维可调底座  
Adjustable Holder

【选配附件】可选配电控调焦模组 (提供对焦距离显示功能)