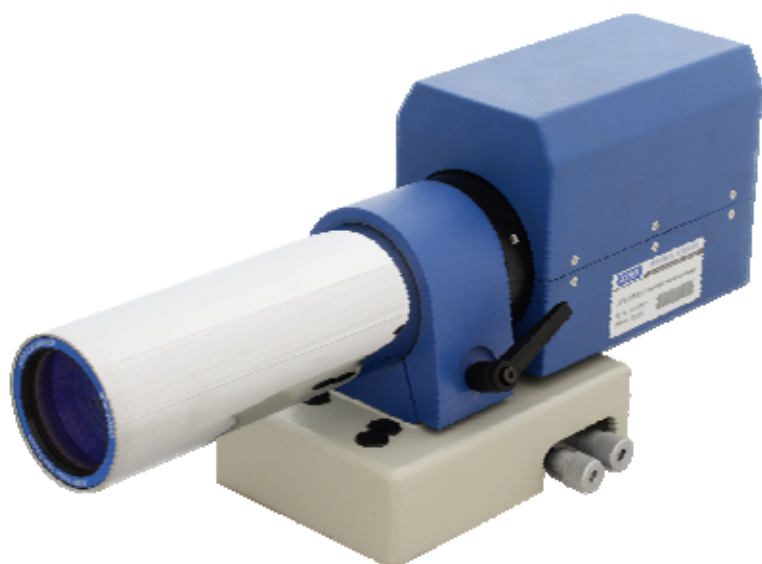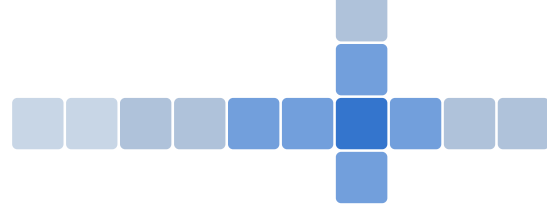# HIGH-SPEED & EXTRA MEASURING RANGE ELECTRONIC AUTO-COLLIMATOR

(Features)

- 4° (Up to 4° measuring range);
- 1KHz (Up to 1KHz frequency);
- XY (Dual-axis measurements);
- (Electronic viewfinder);
- CCD (High resolution CCD Sensors);
- LED (LED Light Sources);
- (Digital image processing technology);
- (Rich accessories);

(Applications)

- (Alignment of machinery);
- (Proof for straightness, flatness, parallelism of rails, tables and linear stage etc.);
- (Rotary table measurement);
- (Alignment of astronomical system);
- (Assembly and adjustment of optical components like mirrors, prisms, windows, wedges etc.);
- (Alignment of components for the beam control in high energy physics);

(Specifications)

Order Number	HV-2050	HV-3050
(Focal Length)	200mm	300mm
(Lens Diameter)	50mm (NA. = 90%)	50mm (NA. = 90%)
(Light Source)	LED Light Source (λ=630nm)	
(Sensors)	(High Resolution Linear Sensors)	
(Viewfinder)	(Electronic Viewfinder with Software Crosshair)	
(Measuring Frequency)	>1000Hz TYP.	
(Interface)	LVDS High Speed Interface	
(Measuring Distance)	2 (2 meter MAX.)	2 (2 meter MAX.)
(Measuring Range)	±2°	±1.2°
(Resolution)	0.1″ (arc sec.)	0.1″ (arc sec.)
(Accuracy)	±2″ (arc sec.)	±1″ (arc sec.)
(Repeatability)	0.5″ (arc sec.)	0.4″ (arc sec.)
(Dimensions)	285mm(L)×130mm(W)×180mm(H)	385mm(L)×130mm(W)×180mm(H)
(Weight)	7KG	7.4KG

AutoMAT HV AutoMAT 5000

CCD

1KHz

AutoMAT HV

/

The **AutoMAT HV** series is our first generation of high-speed electric autocollimators product line. This series of products incorperate 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.
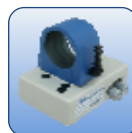
With the features of high-speed and large measuring range, the AutoMAT HV series is well suited applications of virbration mesurements, swing ojects, motion analysis and measuring for stablility like gyro-based stable systems.

(Standard Accessories)

MA60

Standard Mirror

DZ65

Adjustable Holder