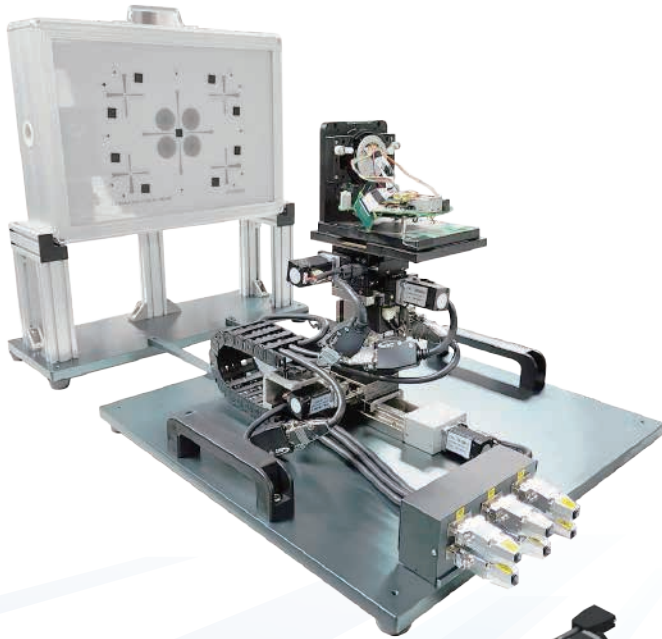


Lens Alignment Automation System



CXN60100
Standard
motorized stage



AX60-F2PN
Precision
motorized stage



AYG6-100VMC
Precision
motorized stage



ARH60-A2PN
Motorized precision
rotary stage



AZV6008-F8NN
Standard
motorized stage

Customized interface

Simplified calibration process

Automation of detection procedure

Features:

- High-efficiency image tracking algorithm supports translation and rotation with multiple degrees of freedom.
- Automatic image tracking calibration function:
μMMC Controller (microcontroller-Based Multi-axis Motion Controller), six-axis integration, ModbusTCP communication and trajectory planning function are applied to achieve precise control.
- Customized interface: According to customers' needs, the interface can customize the detection process and adjust the workflow.

Product Description :

- Operators only need to load and unload materials; they can leave after executing the detection procedure.
- This lens alignment system incorporates technologies such as visual tracking, image processing, camera communication, and motion control. It enables seamless integration of interface software, cameras, and linear stage modules into the application end.
- This system can be applied in various scenarios such as lens alignment inspection, initial positioning of fiber coupling, PickAndPlace operations, BinPicking, assembly tasks, AOI and other related processes. It can be flexibly combined with existing GMT modules to address the challenges in multiple applications.

Stacking of six-axis motorized modules (left wiring method or right wiring method)			
Mechanical Spec.	Direction of Movement	X、Y、Z、θ、α、β	
	Travel Stroke	Xaxis : 100mm, Yaxis : 15mm, Zaxis : 8mm, θaxis : ±7.5°, αaxis(upper axis) : ±6°, βaxis(lower axis) : ±5°	
	Six-axis table size	285mm * 220mm * 177mm (without drag chain)	
	Overall table size	1000mm * 490mm * 240mm (without lightbox and test object)	
	Weight of the module	about 5.5kg	
	Material / Surface treatment	Aluminum Alloy / Black Anodizing, Steel-made / Electroless Nickel Plating	
Accuracy Spec.	Max. Speed	Xaxis : 40mm/sec, Yaxis : 12mm/sec, Zaxis : 6mm/sec, θaxis : 10.5°/sec, αaxis(upper axis) : 5.4°/sec, βaxis(lower axis) : 4.4°/sec	
	Positioning Accuracy	Xaxis : 0.015mm, Yaxis : 0.015mm, Zaxis : 0.03mm, θaxis : 0.03°, αaxis(upper axis) : 0.03°, βaxis(lower axis) : 0.03°	
	Repeatability Accuracy	Xaxis : ±2μm, Yaxis : ±2μm, Zaxis : ±5μm, θaxis : ±0.003°, αaxis(upper axis) : ±0.003°, βaxis(lower axis) : ±0.003°	
	Load Capacity (Horizontal)	3.5kg	
Electrical Spec.	Motor	Model / Wiring Method	2-phase closed-loop motor
		Brand / Model	GMT/TM-28M-G
	Driver Brand / Model		GMT-μMMC Driver(with software)
	Connector	Stage side connector	15-Pin male end connetor D-SUB
		Controller side connector	15-Pin female end connetor D-SUB(optional)
	Sensor	Origin Sensor	Center-point sensing
		Limit Sensor	Forward/Reverse limits
		Power Voltage	24V±10%
Control Output		Testing (sensing) : output transistor OFF (closed)	



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