

MS-11 series设备规格

MS-11 SPI Series				
Max PCB Size Range (PCB 可检查尺寸)				
Servo Motor System 高精度伺服马达	MS-11	50mm x 50mm ~ 510mm x 460mm		
	MS-11U	60mm x 60mm ~ 660mm x 610mm		
	MS-11DL (Dual Lane)	50mm x 50mm ~ 330mm x 250mm		
Image Transfer Technology(检测影像传输技术种类)				
15 Mega Pixel Camera 1500万像素彩色相机	3,904 x 3,904 Pixel	CoaXpress Type	120 fps	
		Camera Link Type	45 fps	
ISIS® Vision System (FOV Size) (FOV 检测视窗尺寸)				
15 Mega Pixel Camera 1500万像素彩色相机	3,904 x 3,904 Pixel	Option 1	Pixel Resolution: 20um	78.08 mm x 78.08 mm
		Option 2	Pixel Resolution: 15um	58.56 mm x 58.56 mm
		Option 3	Pixel Resolution: 10um	39.04 mm x 39.04 mm
3D Inspection Technology (3D检测技术)				
3D Inspection Technology (3D检测技术)		Shadow Free - Moire 3D Phase Step Image Processing		
Height Resolution高解析度		0.1um		
Height Accuracy高精度		On a Calibration Jip 使用校正治具	2um	
Height Repeatability高重复精度		On a Calibration Jip 使用校正治具	±1%	
Volume Repeatability高精度检测数据		On a Calibration Jip 使用校正治具	±2%	
Solder Height锡膏高度		Maximum最大	450um	
		Minimum最小	40um	
PCB Warpage 可接受PCB弯曲范围		±3mm		
Measurement Capability		Volume, Area, Height, X-Y Position, Bridge, Etc		
Teaching Software软件		Gerb Pad	Option: e-PM SPI	
Maximum Inspection Speed(检查最高速度)				
15 Mega Pixel Camera 1500万像素彩色相机	CoaXpress @ 120 fps	选配1	搭配 20um 镜头	11,000 mm ² / Sec
		选配2	搭配 15um 镜头	6,600 mm ² / Sec
		选配3	搭配 10um 镜头	3,000 mm ² / Sec
	Camera Link @ 45 fps	选配1	搭配 20um 镜头	8,200 mm ² / Sec
		选配2	搭配 15um 镜头	4,700 mm ² / Sec
		选配3	搭配 10um 镜头	2,200 mm ² / Sec
System Specification (机器规格)				
Lens Configuration镜头系统		Precision Telecentric Compound Lens Design(高精度光学复合镜头设计)		
Laser Anti-Warpage激光变形量		1um / Point		
PCB Top Side Clearance PCB 上方允许空间		45mm		
PCB Bottom Side Clearance (PCB 下方允许空间)		25mm (Option: 50.8 mm)		
Maximum PCB Warpage 最大可接收 PCB 变形量		±3mm		
Barcode System (Option) 条码系统 (选配)		1D or 2D Barcode Reader		
Built-in SPC SPC软件		Statistic Process Control Software		
Built-in Repair 不良维修软件		Repair Software		
Teaching Software软件		Gerb Pad	Option: e-PM SPI	
Robot Positioning System 机械驱动系统	MS-11 Series (Servo Motor System 高精度伺服马达)	X/Y Axis (X & Y 轴)	Servo Motor System	
		Resolution (解析度)	1um	
		Repeatability(重复精度)	±10um	
Power Requirements 电力需求		MS-11 Series	Single Phase (s) 200~240V 50~60Hz, 1.1 KW	
		MX-11DL 双轨道	Single Phase (s) 200~240V 50~60Hz, 1.5 KW	
Air Requirements 压缩空气需求		5 kgf / cm ² (0.5 Mpa)		
Machine Dimensions and Weight 机器尺寸及重量				
MS-11		1,100mm(W) x 1,500mm(D) x 1,500mm(H)		Approx. 1,000 kg
MS-11U		1,270mm(W) x 1,680mm(D) x 1,500mm(H)		Approx. 1,300 kg
MS-11DL (Dual Lane / One Head)		1,100mm(W) x 1,500mm(D) x 1,500mm(H)		Approx. 1,200 kg