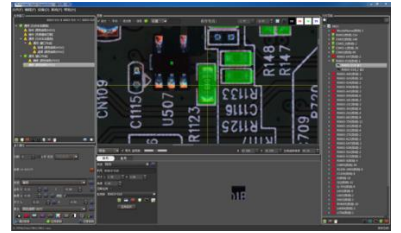
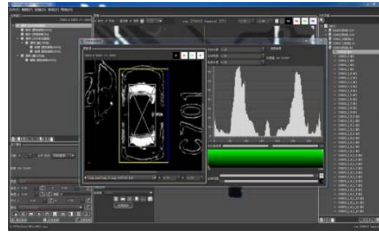


VCTA S910 (Inline) 3D-AOI

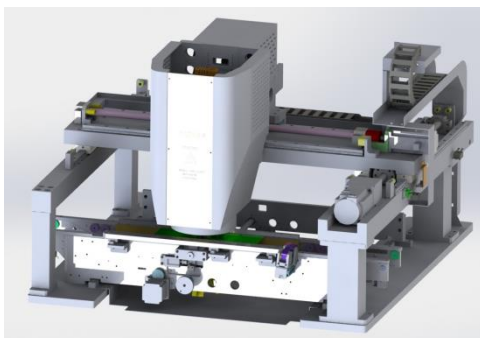
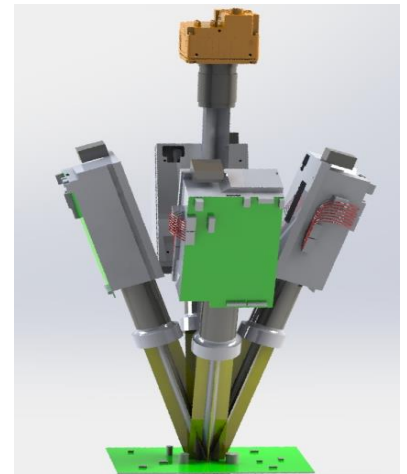


Functionality:

◆ Four projective structure grating system

The N step phase shifting algorithm based on the white light moire fringe technique, providing high inspect accuracy; There are multiple grating for option to deal with light and shadow.

◆ High precision control platform



The motion platform adopts the Linear motor, high-speed, stable, no vibration, no noise. With the high precision grating closed-loop feedback system, the movement precision can reach 1um.

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◆High speed Industry camera

Import 12Mp High frame rate industrial camera and Telecentric lens to achieve the high-speed photography; Self-owned intellectual property RGB light can get 2D & 3D true color image which look realistic; The GPU parallel processing technique can greatly improve the speed of calculation and detection.

II-Specifications

CATEGORY	ITEM	SPECIFICATION
Inspection System	Camera	Digital high-speed CCD 12MP camera
	Resolution	10μm for standard setting, 15μm for option
	Lens	Telecentric Lens
	Light	Ring RGBW LED light
	Projection System	4 directional projection gratings
	FOV	60*45mm(15μm) □ 40*30mm(10μm) □
	Per-image Time	<0.5s
	NG Type	Missing, shift, skewed, tombstone, billboard, overturned, reversed polarity, wrong, damaged, overflow, insufficient,short, dimension,lifted chip, lifted lead
	Minimum component	01005& 0.3mm pitch (15um)
	3D height measurement range	-2~20mm
	Height resolution	0.4um
	Height Accuracy on a Certificated Target	±3μm
	GR&R	<1%@3sigma
Mechanical System	PCB Conveyor	Left to right or right to left (One key shift)
		PCB fixing: bottom-up, PCB warp correction.
		Automatic PCB loading and unloading, Adjustable clearance, Conforming SMEMA standard.

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		Conveyor clearance: 900±20mm
	PCB Size	50×50mm-510×460mm
	PCB Thickness	0.5mm - 5.0mm
	Component Clearance	TOP≤50mm, BOT≤50mm (customized for special requirements)
	Driver	AC servo, camera moves in the directions of X/Y.
	Orientation	<10um
	Moving Speed	Standard: 500mm/s, Max: 800mm/s
Soft System	Operation System	Microsoft Windows Win10X64
	Operation	Graphic programming, Chinese, English
	Programming	CAD、handwork programming, Support offline programming (Optional)
	Computer	CPU INTEL I9, RAM 128GB, HDD:1TB SSD+2TB HDD; GPU:RTX 1650
	Display	24 inch LED
Network	Multi machine control	The operator can control multi same machines in the control terminal
	Network	NG adaptable, check and correct PCBA defects at repair station
	Communication port	SMEMA, RS232,RJ45
Other	Air Supply	0.5MPA.80cm ³ /min
	Machine Dimensions	1200×1280×1660mm
	Weight	~850kg
	Power Supply	AC220V, 10%, single phase 5A 50/60HZ, power consumption 1000W with UPS inside
	Working Environment	Temperature10-40℃, humidity 30-80% RH