

VCTA Z5P – 2D Offline inspection system



- ★ Quick and convenient programming (CAD+components library)
- ★ Standard RGBW ring 4-channel light source to meet the needs of various process substrate measurement
- ★ Powerful and detailed SPC report function, precise image analysis and processing system
- ★ To support offline programming and remote debugging
- ★ Automatic identification of 1D/2D bar codes
- ★ Support to connect MES system

VCTA Z5P – 2D Offline inspection system

VCTA-Z5P offline AOI Specifications

CATEGORY	ITEM		SPECIFICATION
RECOGNITION SYSTEM	INSPECTION		Using multiple algorithms synthetically such as WIDM、Color Image contrast technology、Color extracting technology, similarity, two-value handling technology 、OCR 、Solder ball inspection and Wave DIP analysis technology and so on.
	CAMERA		Color CCD camera: 20um or 15um.
	LAMP-HOUSE		Rings RGB LED lamp-house , with special coaxial optical for option.
	IMAGE PROCESSING SPEED	0201 CHIPS	<10ms
		PER-IMAGE TIME	<170ms
	INSPECTION ITEMS	PASTE PRINTING DEFECTS	Misaligned, overflow, insufficient, pasting open, stain
		COMPONENT DEFECTS	Missing, misaligned, skewed, tombstone, billboard, overturned, reversed polarity, wrong, damaged, Through hole components and SMT. Label position and text.
		SOLDER DEFECTS	Overflow, insufficient, bridging.
		WAVE SOLDERING INSPECT	Overflow, insufficient, bridging , Excess Solder, solder missing
	ANTI STATIC MEASURES		Anti-static electric outlet, anti-static wreath
MECHANISM SYSTEM	PCB SIZE		25×25mm-480×330mm (Larger size for option on cost)
	PCB THICKNESS		0.5- 5mm
	PCB WARP TOLERANCE		<2mm
	COMPONENT CLEARANCE		TOP<28mm(Option 55mm); BOT<75mm
	MINIMUM SPACE PARTS		20um 0201 Chip 0.4Pitch IC
			15um 01005 Chip 0.3Pitch IC

VCTA Z5P – 2D Offline inspection system

	X、Y PLATFORM & Z AXIS	DRIVER	AC servo system
		ORIENTATION	<10 um
		MOVING SPEED	700 mm/s
SOFT SYSTEM	OPERATION SYSTEM		Microsoft Windows 10
	CONTROLLING & RECOGNIZING	CHARACTERISTICS	Automatic call the program & identify the top or bottom side of the PCB; Support no PCB programming; Intelligent communication docking with MES; Intelligent data alert function; Support the central centralized database model
		OPERATION	Graphic programming, take along with chip library and get an inspection frame according with chip shape, aureate position, micron adjust, and easy programming
	Mark	MARK NUMBERS	3mark points can be chosen
		RECOGNISING SPEED	0.5s/pcs
CONTROLLER	COMPUTER		CPU: Intel Dual Core MEMORY:4G, HARDDISK: 2TB
	DISPLAY		22-inch TFT
OTHERS	MACHINE DIMENSIONS (L*W*H)		870×1040×1340mm
	WEIGHT		~310kg
	POWER SUPPLY		AC220V, 10%, single phase 50/60HZ, power consumption 800W
	Working Environment		Temperature10-40℃, humidity 30-80% RH