3D X-RAY Inspection Equipment

Model: AX9100vs

VISION SERIES

UNICOMP 日联科技

Industrial X-Ray Intelligent Inspection Expert

CONTENTS

01 Demand Positioning

02 Equipment Summary

03 Euipment Features

04 Image Results Show

01 Demand Positioning

PART ONE

Demand Positioning

① Micron close X-ray tube

② High resolution FPD

③ X-ray 3D scan to reconstruct the system

④ Planar 3D and cone-beam 3D all in one system

02 Equipment Summary

PART TWO

Equipment Introduction

Machine highlights

Microntube and high resolution FPD, X-ray 3D scan to reconstruct the system.

Imaging system

Planar CT and cone-beam CT dual system

Vision-NAVI

- High-resolution navigation
- Multi-angle image tracking system

Motion control system

- Inspecting by CNC programming
- High detection accuracy and high repeat positioning accuracy

Technical Parameters and Specifications

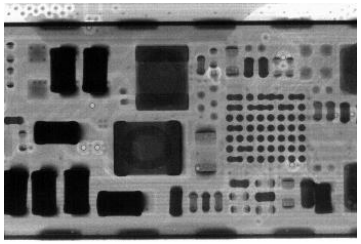
Configuration Parameter

Hardware Configuration	X-Ray Tube	Type	closed	Software System	Software Introduction	Unicomp	Vision series off-line X-ray detection software V2.0
		Tube Voltage	130kV		Functional Characteristics	Inspection function	With 2D plane, 2.5D tilt, 3D scan reconstruction detection
		Tube Current	500μA				Programming detection, High detection accuracy and Repetition accuracy
	Imager	Type	High Resolution FPD				High resolution navigation system, Multi - Angle image tracking system
		AD Conversion	≥14bit	Parameter	Machine Parameter	Dimension of Equipment	1400(L)*1720(W)*1800(H)mm
		Image resolution	3μm			Weight	2750kg
	Computer	Host	AI special industrial computer			Power Supply	220V 50Hz
		Monitor	High definition display			Maximum Power	4 kW
	Detectability	Maximum load size (2D/2.5D)	530(X)mm×530(Y)mm			Radiation Leakage Dose	<0.5μSv/h
		Maximum detection size	500(X)mm×500(Y)mm			Warranty	one year for (whole machine)
		Maximum load size (3D)	3D-P:450(X)mm×450(Y)mm 3D-A: 80(X)mmx200(Y)mm			Fingerprint Recognition and Radiation Monitoring Functions	
		High precision motion system	7 axis linkage			Supports interworking with MES, ERP, WMS and other systems	
		Maximum sample weight	10kg				
		Magnification	>1500X				

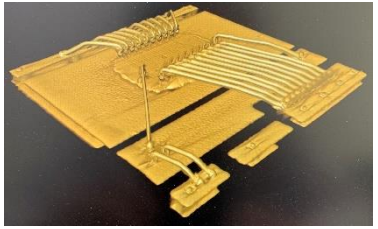
03 Equipment Features

PART THREE

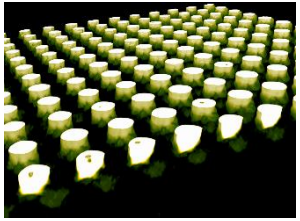
Application Fields



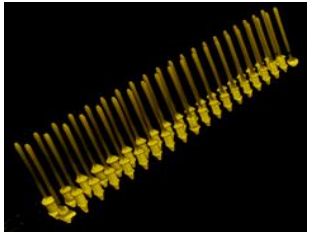
PCBA



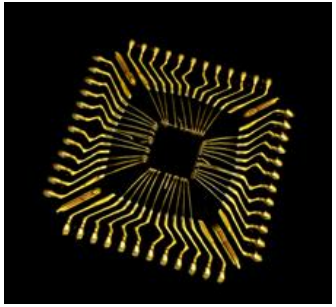
SEMI、LED



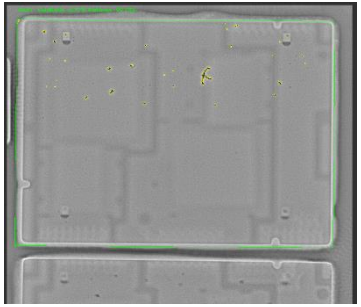
BGA/LGA



PTH

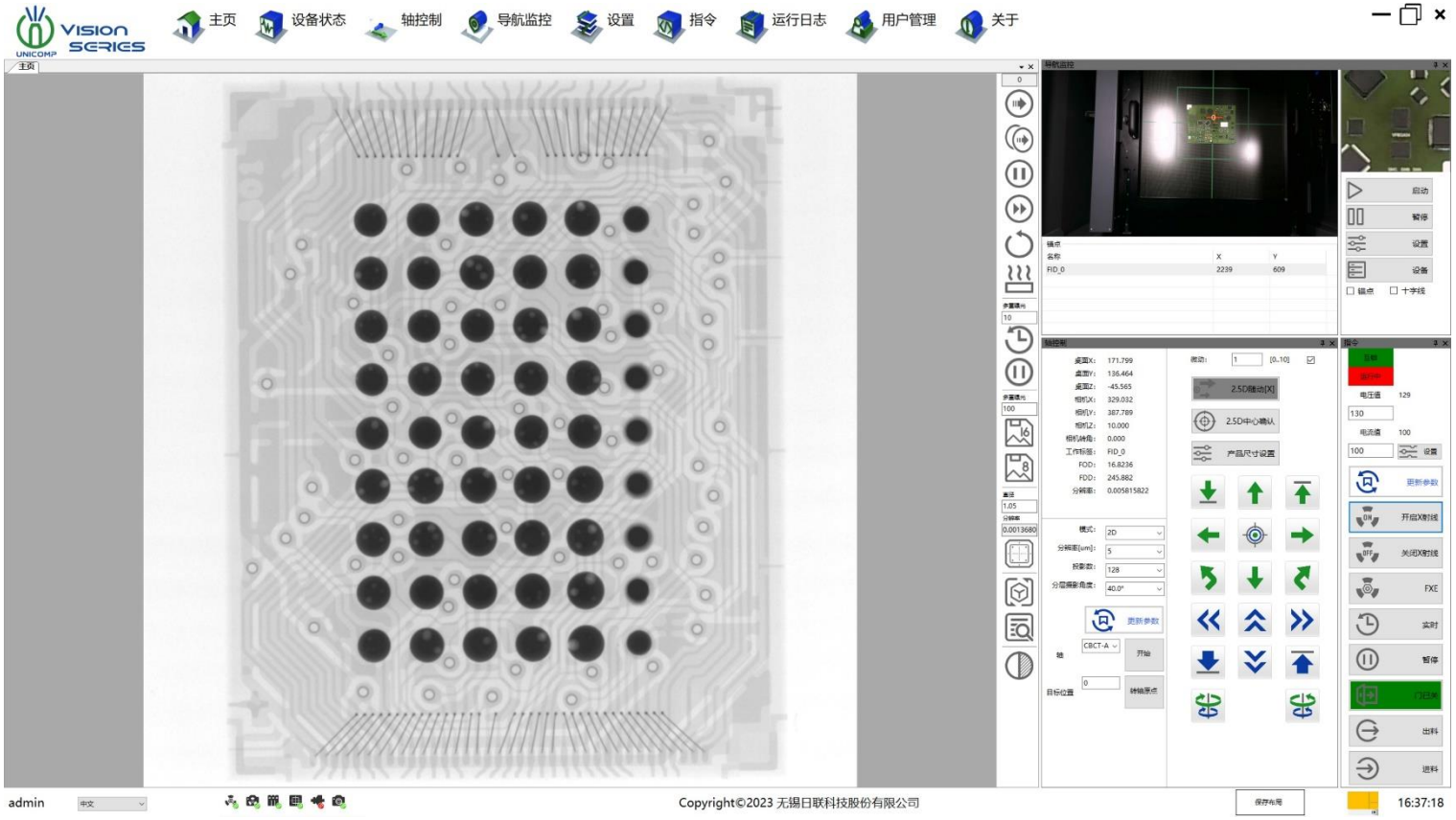


CSP/QFP



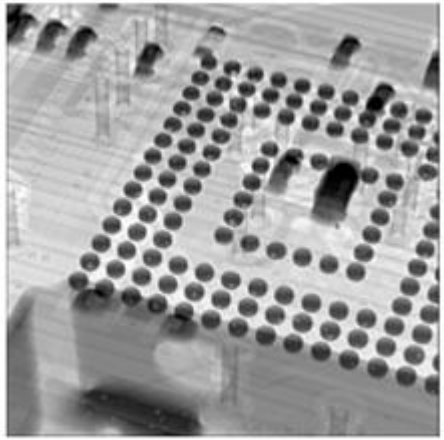
IGBT

Software Home Page

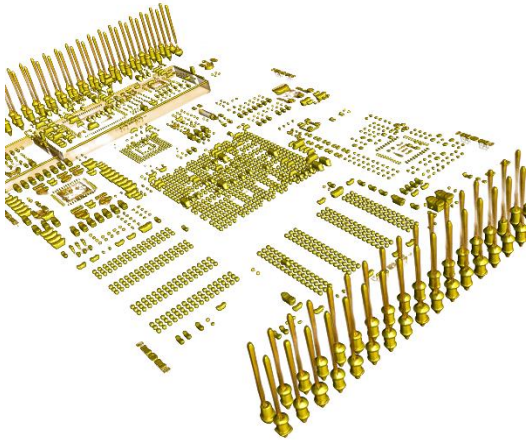


Functional Features

Satisfy 2D plane and 2.5D tilt detection



Satisfy 3D scanning and 3D reconstruction



3D Micron close ray detection system

功率	焦点尺寸	功率	焦点尺寸	功率	焦点尺寸
P＜4W	≤8μm	16W≤P＜24W	≤35μm	40W≤P＜50W	≤65μm
4W≤P＜8W	≤12μm	24W≤P＜32W	≤45μm	50W≤P＜60W	≤75μm
8W≤P＜16W	≤22μm	32W≤P＜40W	≤55μm	60W≤P＜65W	≤80μm

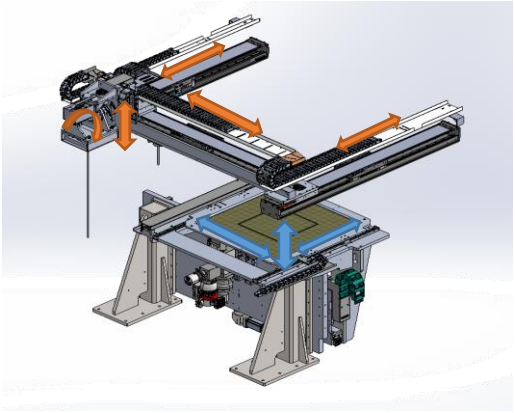
Functional Features

The loading platform

- It is driven by the loading platform motor.
- Adopt grinding screw and high precision guide rail.

Detector

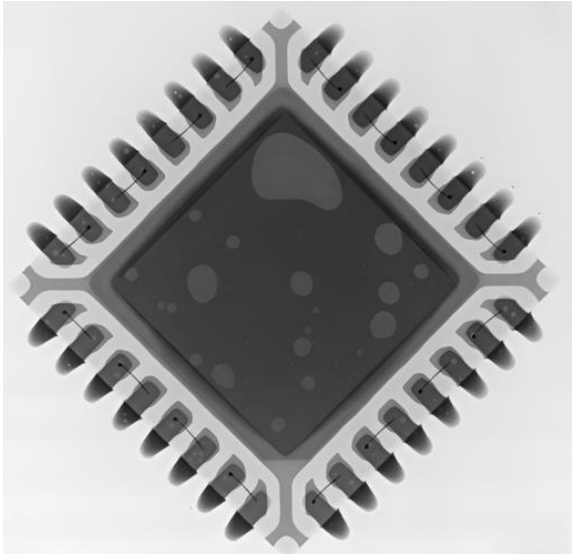
- The detector is driven by high precision linear motor.
- The rotary function is realized by hollow turntable.

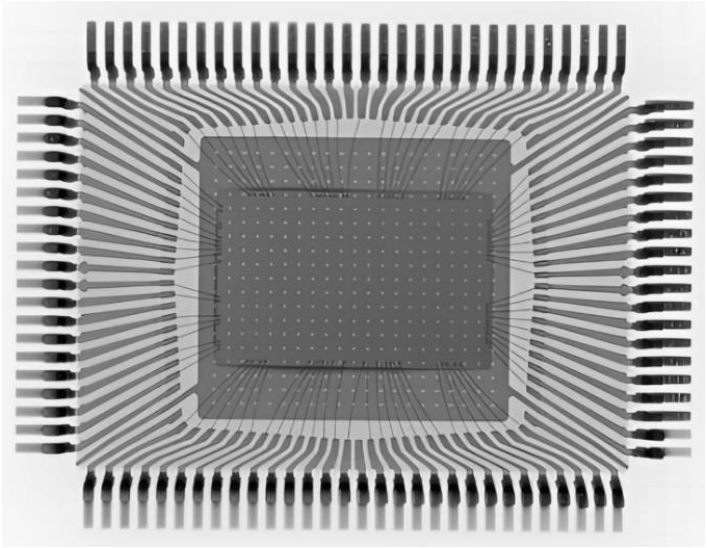


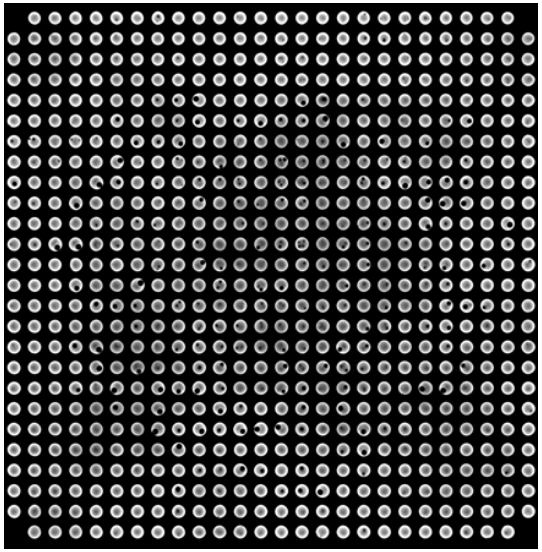
04 Image Results Show

PART FOUR

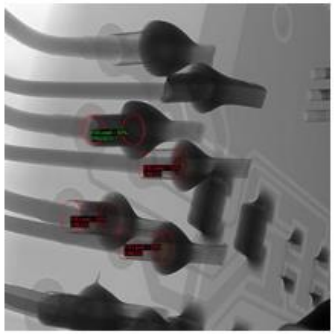
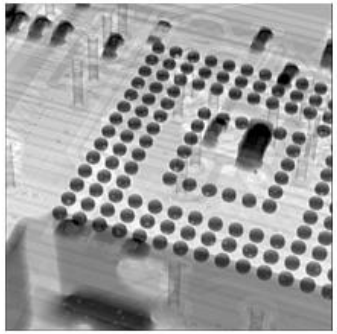
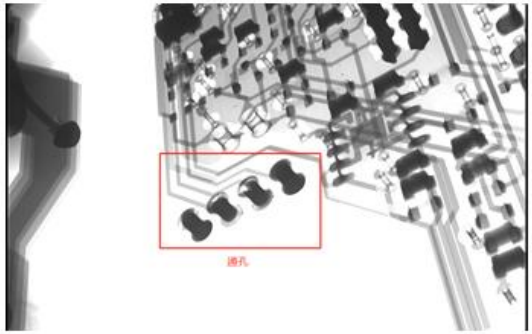
Example for 2D Testing Images

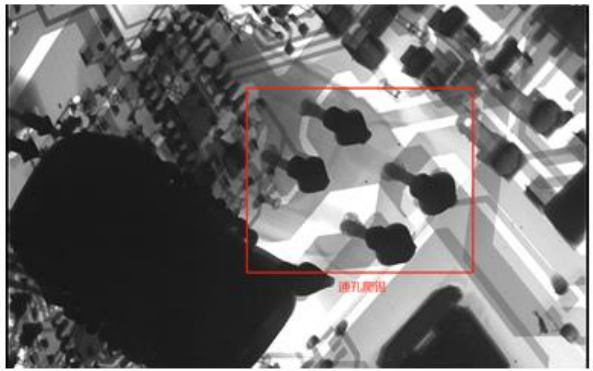




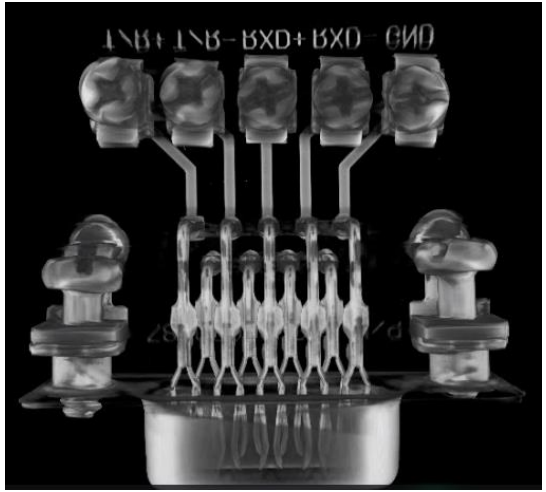


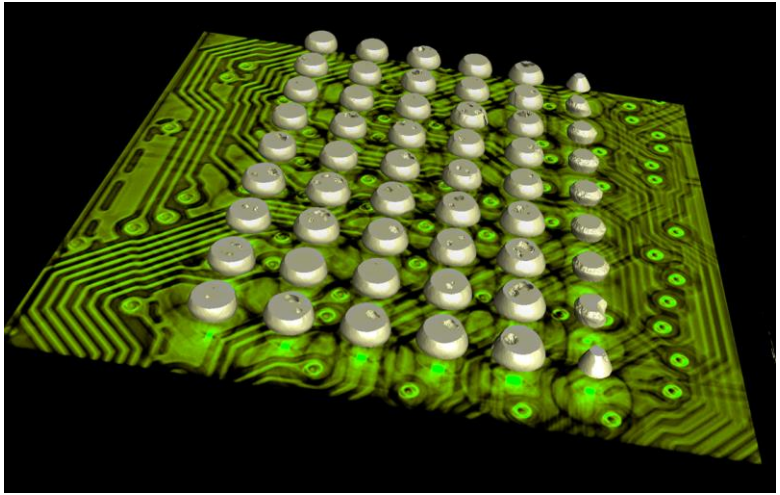
Example for 2.5D Testing Images

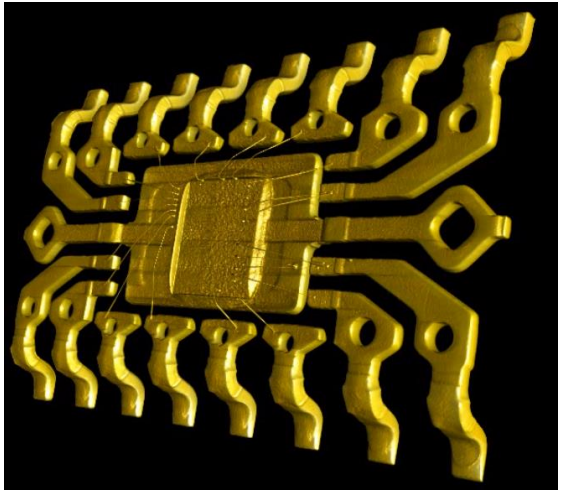






Example For 3D testing images







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