

SMT Offline X-ray X-7900



Introduce:

X-7900 electronic semiconductor testing equipment can be used to detect integrated circuit chip semiconductors, such as BGA, IGBT, flip-chip and PCBA component welding, high-precision testing in LED, photovoltaic and other industries; widely used in industrial manufacturing fields, such as auto parts, foundry Testing, pressure vessel and pipe welding quality testing and new material analysis; can detect defects in various types of batteries, such as power batteries, cylinders, flexible packaging, square shells and laminates, etc.

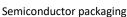
Features:

- 1. The stage can move along the X and Y directions, the detector and the light pipe can move along the Z direction, and the speed can be divided into slow, medium and fast.
- 2. The effective detection range is larger, and the magnification and detection efficiency of the product are improved.
- 3. It is easy to identify the defects of the product's side inclination, and realize the detection without dead angle.
- 4. Adopt the world's top Japanese Hamamatsu X-ray source.
- 5. It is easy to identify the bending and breaking of gold wires in semiconductor packaging.
- 6. Editable detection program to realize CNC automatic detection.
- 7. It is suitable for mass detection, improves detection efficiency, and automatically judges NG products.
- 8. The super-large automatic navigation window, the stage can be moved to the pointed position by clicking the mouse.
- 9. The operation is very convenient, and the defect of the item can be found quickly, which improves the detection efficiency.
- 10. High safety, with EU CE Certificate, International Quality Management System ISO, and AERB Certificate for X-ray.

Application:

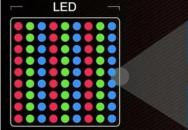
SMT, BGA, CSP, Flip Chip, MINI LED package, PCBA assembly, Semiconductor packaging, Lithium battery, Electronic components, Automotive parts, Photo-voltaic, Aluminium die-casting, Moulding plastic, Ceramics, other special industries.







PCBA



MINI LED Package



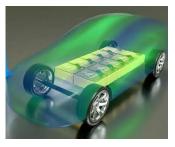
Electronic harness











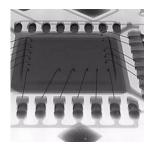
Cable

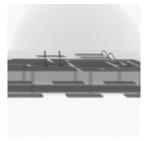
Car sensor

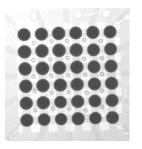
Lithium battery

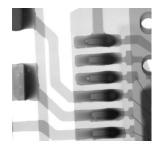
Power Battery

Detection case:

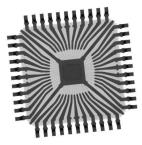




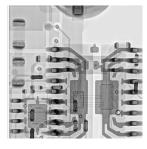




IC WIRE



LED



BGA



IC Soldering



IC Line 1

Semiconductor inspection

Gold Wire Welding

IGBT

Features:





Joystick Control

360-degree flexible control of the direction, angle, real-time adjustment of the speed of movement; camera and X RAY tube control buttons, sensitive operation of the core components of the machine

Programming Control

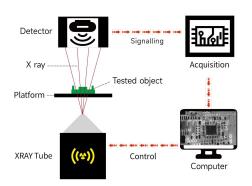
Simple mouse-click operation to write inspection programs; Platform can be positioned in X,Y direction; X-ray tube and detector can be positioned in Z direction; Anti-collision system for maximum tilt and viewing of the object.





Digital HD X-RAY flat detector

Ray detector has real-time image acquisition, real-time image correction, to provide high-quality images, passive cooling device, built-in temperature sensor can be real-time display of operating temperature, a variety of different gain gear PGA + Binning combination of operating modes.



Working Principle

The computer controls the intensity of the XRAY tube emitted by the XRAY, penetrates the Tested object, reaches the Detector, and the Image Acquisition card converts the signal and sends it back to the computer.



X-RAY Tube

Equipped with Japan's HAMAMATSU XRAY tube, the world's top technology, the machine's excellent performance and long service life, to ensure the overall stability of the machine.



Double Security

The sheet metal frame of lead-containing alloy steel plate is equ ipped with a multi-functional radiation detector that can detect α , β , and γ rays, and has a built-in filter function to add another layer of safety.

Specification:

Item	Model	X-7900
X-Ray Tube	Туре	Enclosed reflective target microfocus X-ray source
	Voltage	130kV
	Electric current	300uA
	Focal spot size	3µm
	Maximum input power	39W
	X-ray beam angle (cone) 105 degree	
	Distance from focus to object	10mm
Flat panel	Imaging area	160mm*160mm
	Photosensitive unit size	85µm



Resolution	1644*1648px	
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Detector tilt angle	0-60°	
Image frame rate (1×1)	30fps	
Max. Loading size	540mm*540mm	
Max. Inspection area	510mm*510mm	
Max. Loading weight	10kg	
Platform rotation	360° platform rotation (Optional)	
Inner lead sheet	5mm thick lead plate (isolation radiation)	
Dimension	1110mm(L)*1350mm(W)*2000mm(H)	
Weight	1050KG	
Computer	24-inch widescreen LCD monitor/I5 processor/4G	
	memory/250G hard disk	
Power	AC110/220V, 10A, 1300W	
	Image frame rate (1×1) Max. Loading size Max. Inspection area Max. Loading weight Platform rotation Inner lead sheet Dimension Weight Computer	

Materials List:

No.	Item	Brand	Original
1	X-Ray Tube	HAMAMATSU	Japan
2	Detector	DRTECH	Japan
3	Computer	Advantech	China, Taiwan
4	Motion Controller	Gugao	China
5	Sensor	SUNX	Japan
6	Door Sensor	OMRON	Japan

^{*} I.C.T keeps working on quality and performance, specifications and appearance may be updated without particular notice.

X-Ray Safety: All X-ray machines manufactured by I.C.T Technology meet the FDA-CDRH Regulation CFR 21 1020.40 Subchapter J for cabinet x-ray systems. The FDA - CDRH standard for cabinet X-ray systems states that radiation emission will not exceed. 5millirem a /hr.2" from any external surface. Our machines (Leakage $<1\mu$ Sv/h) are typically 5-10 times less than the international standards.

YouTube: https://youtu.be/AJ4UnjuV3il?si=GPXo5MZB9wGK-cuz

Thanks for choosing I.C.T.

I.C.T looks forward to win-win cooperation.

Thank you.