

## SMT Offline X-ray X-7200



### Introduce:

I.C.T X-7200 inspection machine has a wide range of applications. It is commonly used in the internal structure testing of electronic components, common air bubble void rate measurement, circuit short circuit open circuit, solder joint lack of soldering and missing soldering, foreign matter cracks inside, etc. It has the characteristics of convenient maintenance and long service life; simple operation, reducing operator training; high repeatability of detection; allowing a maximum viewing angle of 60 degrees to detect samples and so on.

### Features:

1. CNC program: automatic batch detection of different positions of samples.
2. Array function: automatic batch detection of samples with fixed positions and the same spacing.
3. Length and width measurement: measure the length and width of part of the detection area.
4. Visual navigation interface: precise positioning of the detection position.
5. Simulate color: better observe the inspection image.
6. Bubble measurement: One-key measurement of bubble size, void rate, and tin climbing height.
7. Automatically ON/OFF X-RAY light tube to detect samples in batches.
8. Equipped with high stability and high precision X-ray light tube.
9. High-resolution digital X-RAY flat panel.
10. The stage can accommodate a large number of samples of various sizes.
11. Optional 360° rotation of the stage to detect samples.
12. Allows 60° tilt observation.
13. High safety, with EU CE Certificate, International Quality Management System ISO, and AERB Certificate for X-ray.

### Application:

SMT, BGA, PCBA assembly, Router, Lithium battery, Wire harness, Wire rod, Display, Fuse, Electronic components, Automotive parts, Photo-voltaic, Aluminium die-casting, Moulding plastic, Ceramics, other special industries.



Router



Wire rod



Electronic harness



Electronic sensor



Battery protection board



Display

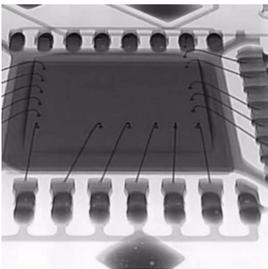


Lithium battery

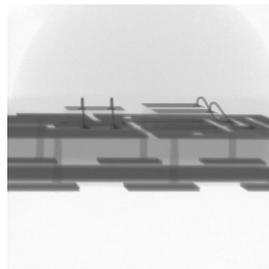


Fuse

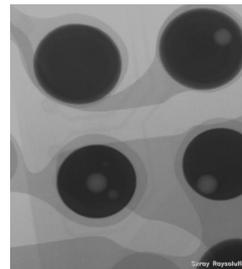
**Detection case:**



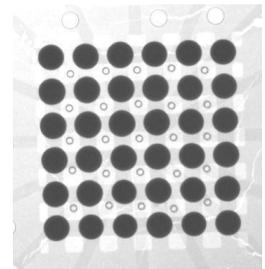
IC WIRE



LED



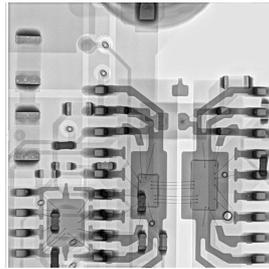
BGA bubble



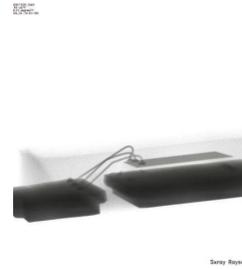
BGA Solder balls



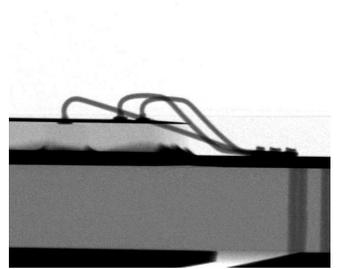
IC Line 1



Semiconductor inspection



MINI LED



Gold Wire bonding

**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



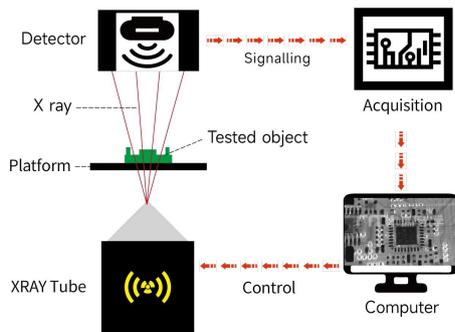
**Programming Control**

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.



**Optional: 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



**XRAY 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.



**Options: Nuclear radiation detector**

Multifunctional ray detection, including  $\beta$ , X-ray,  $\gamma$ -ray detection, Rechargeable design greatly improves battery life, fast test speed, increased CPM display and automatic range, wider measurement range, built-in filter function, to avoid other interference

**Specification:**

Item	Model	X-7200
X-Ray Tube	Type	Closed tube
	Voltage	90kV
	Electric current	200uA
	Spatial resolution	5 $\mu$ m
Flat panel	Image capture method	Flat panel digital imaging
	Imaging accuracy	85 $\mu$ m
	A/D conversion quantized density value	16bit (65536)
	Resolution	1280*1024px
	Acquisition frame rate	30 FPS
System	Magnification	200x

	Operating system	Windows 10
	Power	AC110-220V, 50-60HZ, 1200W
	Radiation safety test	<1 uSV/H
Structure	Max. Loading size	540mm*540mm
	Max. Inspection area	510mm*510mm
	Max. Loading weight	≤10kg
	Platform rotation angle	60°
	Dimension	1100*1360*1750mm
	Weight	950kg
	Platform movement	Automatic / Manual

\* 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 <1μSv/h) are typically 5-10 times less than the international standards.

**Thanks for choosing I.C.T.**  
**I.C.T looks forward to win-win cooperation.**  
**Thank you.**