



X-7100

General Type

X-Ray Inspection System

X-Ray Inspection Equipment Series

General type, NDT system



The X-7100 inspection equipment launched by RMI has a wide range of applications, commonly used in the internal structure inspection of electronic components, common bubble voidage measurement, electrical short-circuit, break-circuit, weld defects, less welding, missing welding of the welding spot, foreign matters and cracks inside the internal part, etc. It has easy maintenance, long service life, simple operation, as well as reduce the training of operators, high inspection accuracy, allows a maximum 60-degree viewing angle to detect samples, etc.

Application:

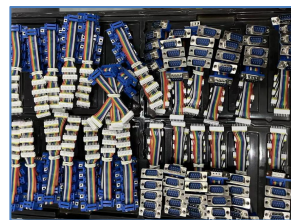
1. Router
2. Wires
3. Lithium battery
4. Monitor
5. Wire harness
6. Fuse



Router



Wires



Wire harness



Electronic sensor



Battery protection board



Lithium battery



Monitor

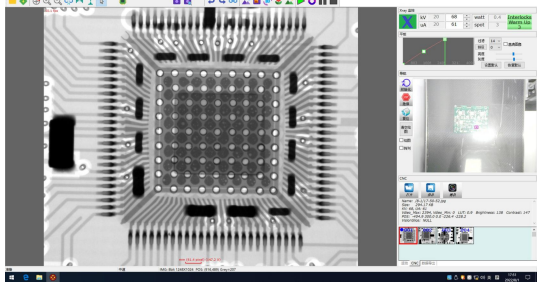


Fuse

Specifications:

	Model	X-7100
Tube	Tube type	Enclosed type
	Spatial resolution	5 μ m
	Tube voltage	90kv
	Tube current	200 μ A
Detector	Image taking type	Flat-panel Digital
	Imaging precision	85 μ m
	A/D convert quantified density value	16bit (65536)
	Dpi	1536*1536px/1648*1648px (Oversea version) optional
	Frame frequency	20 (FPS)/30 (FPS) (Oversea version) optional
System	Optical magnification	250X
	System magnification	1000X
	Operating system	WINDOWS 10
	Power supply	AC110-220V50-60HZ
	Power	1200W
	Radiation safety test	<1 uSV/H
Structure	Detector rotation angle	60°
	Stage size	540*540mm
	Sensing range	510*510mm
	Load-bearing	≤10kg
	Machine size	1100*1360*1750mm(L*W*H)
	Machine size (Including monitor)	1600*1800*2100mm(L*W*H)
	Machine weight	950kg
	Stage movement	Automatic / manual
Safety	CE Certificate	Yes: STE23112101S
	State immunity	Yes
	Radiation Safety Permit	Yes: Guangdong Environmental Radiation Safety Permit [B0640]

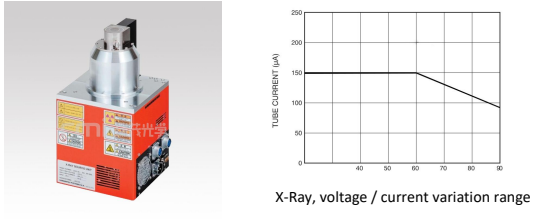
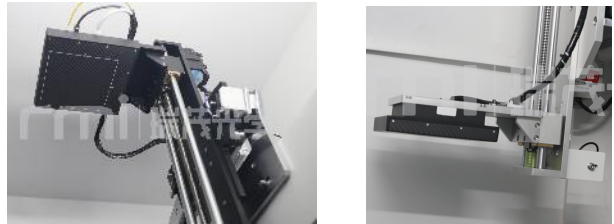
High-end Configuration:

Software interface	Numerical control programming
	<p>Simple mouse-click operation to write the inspection program</p> <p>The carrier can be positioned in X, Y direction; X-Ray tube and detector in Z direction.</p> <p>The current and the voltage can be set by the software.</p> <p>Image Settings: brightness, contrast ratio, automatic gain, and exposure</p> <p>The user can set the pause time for the program switching</p> <p>The collision protection system can satisfy the maximum tilt and observation of objects.</p>

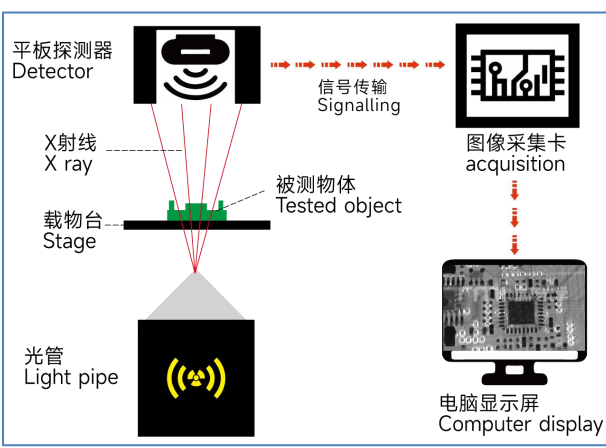
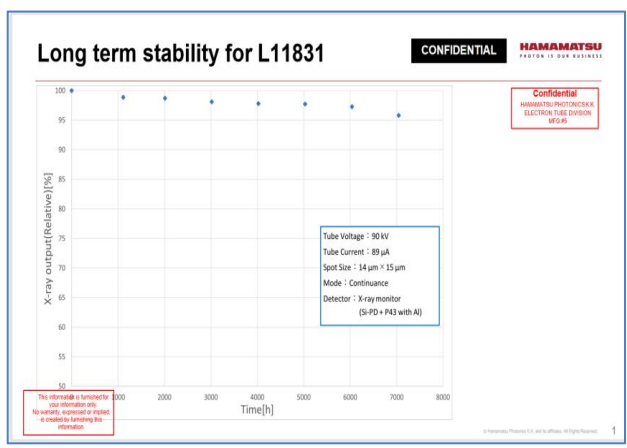
Functional Advantage:

Function	Advantage
CNC program: Automatically detect batch of different samples' locations	Automatically ON / OFF X-Ray tubes detect batch of samples
Array function: Automatically detect batch of samples with fixed position and same spacing	With high-stability and high-precision X-Ray tube
Bubble measurement: measure the bubble size, cavity rate, tin climbing height with one button	High definition digital X-Ray detector
Length and width measurement: the length and width of the measured inspection area	The stage can place a large number of samples of various sizes
Visual navigation interface: accurate positioning, accurate displacement from x - y with joystick	The stage can do 360° rotation to detect sample
Simulated color: to better observe and detect the image	Can do 60° tilt observations

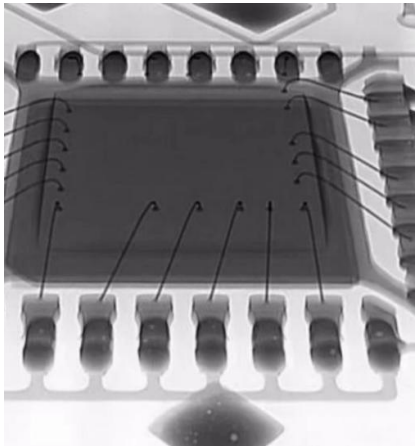
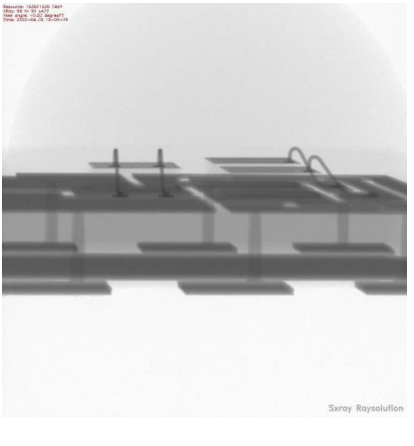

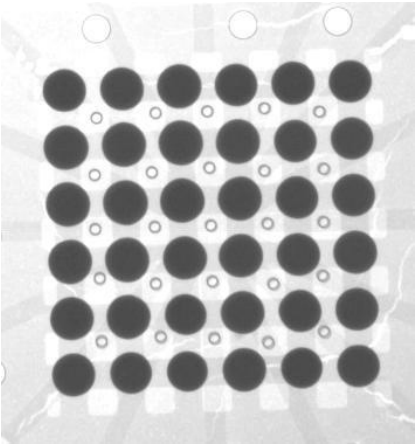
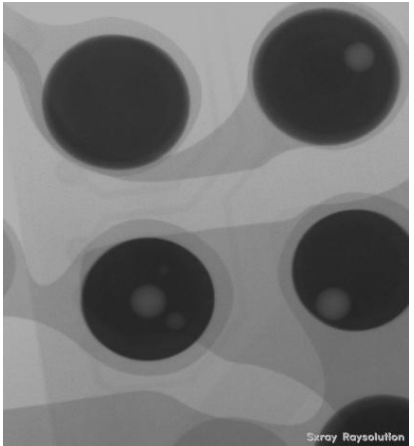
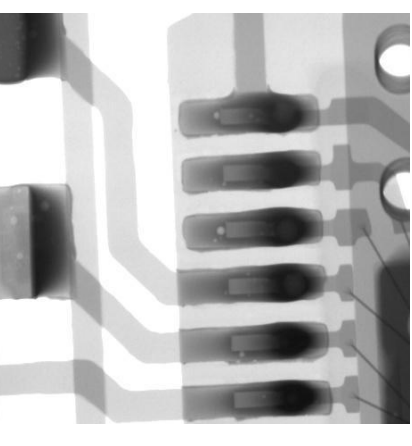
High Quality Accessories:

Japan Hamamatsu X-Ray tube	Digital HD X-Ray detector
 <p>The X-Ray tube is the HAMAMATSU tube from Japan, which is the most stable in the world and has a long service life.</p>	 <p>The X-Ray detector has real-time image acquisition, real-time image correction, provides high quality image, passive cooling device, built-in temperature sensor can display the working temperature in real time, a variety of different gain gear PGA + Binning combined working modes.</p>

X-Ray Principle Description:

A Schematic diagram of the X-Ray working principle	A Schematic diagram of the X-Ray lifetime decay
 <p>平板探测器 Detector X射线 X ray 载物台 Stage 被测物体 Tested object 光管 Light pipe 信号传输 Signalling 图像采集卡 acquisition 电脑显示屏 Computer display</p>	 <p>Long term stability for L11831</p> <p>CONFIDENTIAL HAMAMATSU PARTNER IS OUR BUSINESS</p> <p>Technical Specifications: Tube Voltage : 90 kV Tube Current : 89 µA Spot Size : 14 µm × 15 µm Mode : Continuance Detector : X-ray monitor (Si-PD + PA3 with AJ)</p> <p>The information is symmetrical and information can be obtained in either direction. No warranty is provided or expected in connection with this information.</p>

Inspection Case:

<p>IC wire</p>	<p>LED</p>	<p>Mini LED</p>
		
<p>BGA solder ball</p>	<p>BGA air bubble</p>	<p>IC weld</p>
		
<p>Gold wire welding</p>	<p>Semiconductor inspection</p>	<p>IC circuit</p>
