MatriXcope

MTC-8900XPRO

Universal X-RAY Equipment

General specifications

PHYSICAL SPECIFICATIONS	
X-Ray tube type	Enclosed type
Spatial resolutiaon	3um
Light tube voltage	130KV （Optional 100KV、90KV）
Light tube current	300uA
Magnification	Optical magnification 450X, system magnification 2000X
Digital flat panel detector resolution	1536*1536 px
Digital flat panel detector density value	16bit （655）
Image speed	20 (FPS)
Detector rotation angle	60°
Stage size	540*540mm
Sensing range	510*510mm
Load-bearing	≤10kg
Examination range	0.02-45cm2
Machine size	1100*1360*1950mm(L*W*H)
Machine weight	1050KG
operating system	WINDOWS 10
Power supply/power	AC110-220V 50-60HZ 1200W
Radiation safety test	<1 uSV/H
Detector rotation angle	Automatic / manual
CE Certificate	Yes: STE23112101S
State immunity	Yes

Product highlights

The MTC-8900XPRO electronic semiconductor inspection equipment can be used to detect integrated circuit chip semiconductors with high precision testing, such as BGA, IGBT, flip chip and PCBA module welding, LED, photovoltaic etc.; Widely used in industrial manufacturing field, such as automobile parts, casting testing, quality testing for pressure vessel and pipe welding; Can detect defects of various types of battery, such as power battery, cylinder, soft packaging, square battery and laminated board.

Application:

1. Semiconductor package
2. Lithium battery
3. Automotive sensors
4. Electronic wire harness
5. PCBA assembly
6. Mini LED package


Semiconductor package

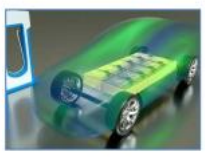

Cable connection

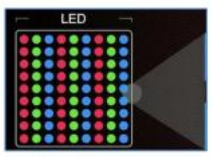

Electronic wiring harness


Automotive sensor


Lithium battery


PCBA assemble


Power battery



Mini LED package

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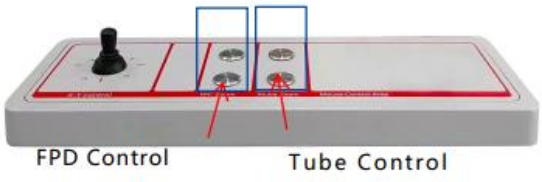
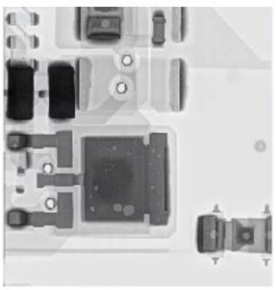
Functional Advantage:

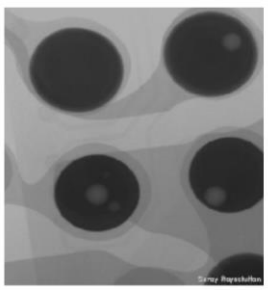
Function	Advantage
CNC program: Automatically detect batch of different samples' locations	Automatically ON / OFF X-Ray tubes detect batch of samples
Array function: Automatically detect batch of samples with fixed position and same spacing	With high-stability and high-precision X-Ray tube
Bubble measurement: 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

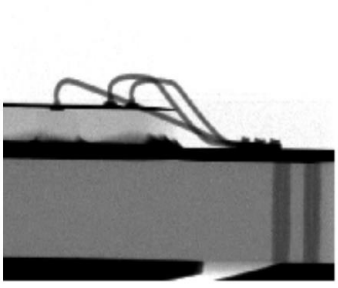
High-end Configuration

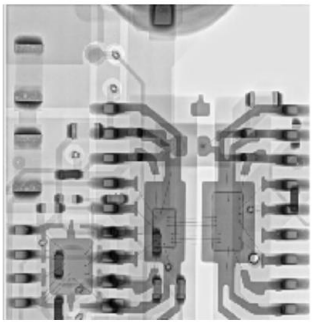
Joystick control	Numerical control programming
	Simple mouse-click operation to write the inspection program The carrier can be positioned in X, Y direction; X-Ray tube and detector in Z direction. The current and the voltage can be set by the software. Image Settings: brightness, contrast ratio, automatic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

Imaging









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