

X-Ray Inspection System X-8800



Applications of X-Ray

X-Ray inspection system is high-precision detection equipment. It **inspects and analyzes** the inner structure of the object without damage via the penetration power from X-Ray.

It has been widely applied to BGA detection, LED, SMT, semiconductor, battery, automotive electronics, ceramic products, casting, plastic, connectors, CT analysis, pharmaceutical products and other industries.

Specific application:

- 1) Defect inspection in **IC encapsulation**, e.g.: layer separation, cracking, void, and line integrity.
- 2) Measuring **chip size**, measuring **line curvature**, measuring the **proportion of solder area of components**.
- 3) Possible defects in **PCB manufacturing processes**, e.g.: misalignment, solder bridge and open.
- 4) **SMT** solder short, cold solder, component shifted, solder insufficient, solder void inspection and measurement.
- 5) Defect inspection of open, short or abnormal connections that may occur in **automotive wiring harnesses and connectors**.
- 6) Inner rupture or hollow inspection in **plastic or metal**.
- 7) **Battery** stacking uniformity, electrode welding inspection.
- 8) **Seed, biological material** inspection etc.

Technical Parameters

Items		Contents
Model		X-8800
X-RAY launch tube	Tube type	Open X-ray tube
	Maximum tube voltage	160KV
	Maximum output	20W
	Focal spot size	0.5µm
	Magnification	Geometric magnification: 2100X (>2000X if flat panel detector) Total magnification: >23000X (>7000X if flat panel detector)
	Radiation angle	170°
	Filament	Tungsten filament, easy to replace
Detector	Detector type	4" Image intensifier
	Pixels	2 million
Flat panel detector (optional)	Resolution	1536*864
	Pixel size	75µm
Cabinet Specifications	Axes	5 axes (X, Y, Z, Tilt, Rotate)
	Max weight	5kg
	Max inspection area	410mm*410mm

	Max sample size	510mm*510mm
	Inclined Angle	Table 360° Rotation Detector 70°
	Axes speed	10μm/s to 80mm/s
	Dimension	Length: 1800mm, width: 1900mm, height: 1430mm
	Net weight	2050kg
	Input voltage	AC 110-220V (±10%) (international standard power supply)
CT function		Available
X-ray leakage amount		≤1 u Sv/h
Operating system		Windows 7 Seamark3.0
Total power		2500W