



S-7200 X-Ray Inspection Machine Approx 1250 Kg Online Including Power Supply 220V AC and Detectionobjects Batteries 18650 Battery for Control

Our Product Introduction

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Basic Information

- Brand Name: WISDOMSHOW
- Certification: CE
- Model Number: S-7200
- Minimum Order Quantity: Radiation Safety License (Yue Huan Fu Zheng [B0774]); Exemption Filing For Radioisotopes And Radiation Devices
- Packaging Details: Standard Export Wooden Case Packaging
- Payment Terms: T/T,Negotiable
- Supply Ability: Approx. 50-100 Units/month



Product Specification

- Resolution: X-ray Tube Focal Spot Size: 5 μm ;
Geometric Magnification: 150X
- Software: Self-developed Software With CNC Automated Inspection Programming, Navigation & Positioning, Automatic Void Ratio Calculation, Dimension Measurement (distance/angle/circle), And AI Defect Judgment (customizable Algorithms)
- Weight: Approx. 1250 Kg
- Power Supply: 220V AC, 50/60 Hz
- Detectionobjects: Electronic Components, Semiconductors (BGA, IC, LED, FPC, Connectors, Etc.), Batteries (18650 Battery, Pouch Cell Battery, Etc.) Internal Defect Inspection (voids, Cracks, Broken Wires, Etc.)
- Userinterface: 24" HD Monitor + Joystick + Mouse +

Product Description:

The Online X-Ray Inspection Machine is an advanced inline SMT X-ray equipment designed to provide precise and reliable inspection for a wide range of electronic components and batteries. Utilizing cutting-edge X-ray transmission inspection technology (2D), this machine offers exceptional imaging capabilities that enable thorough internal analysis of critical devices such as semiconductors, BGAs, ICs, LEDs, FPCs, connectors, and various types of batteries including 18650 and pouch cell batteries.

One of the standout features of this X-ray inspection solution is its detector, which is tiltable 45° to the left and right, providing a total viewing angle of 90°. This flexibility allows operators to capture detailed images from multiple perspectives, enhancing defect detection accuracy and enabling comprehensive quality control. The tiltable detector feature is especially valuable when inspecting complex assemblies where defects such as voids, cracks, and broken wires might be hidden beneath surface layers.

The machine's inspection capabilities are supported by a high-resolution X-ray tube with a focal spot size of just 5 micrometers. This fine focal spot, combined with a geometric magnification of up to 150X, ensures that even the smallest internal defects can be identified with clarity and precision. The exceptional resolution makes this system ideal for applications requiring meticulous inspection standards, such as semiconductor manufacturing and battery quality assurance.

In terms of data handling, the Online X-Ray Inspection Machine is equipped with robust image saving and measurement data output functions. Users can store detailed inspection images and measurement parameters including void ratio and dimensional data. This information is crucial for traceability, quality documentation, and process optimization. The storage function facilitates efficient data management, enabling operators to review inspection results and analyze trends over time to improve production yields.

Designed for use in a variety of manufacturing environments, this X-ray inspection solution operates reliably within a temperature range of 0°C to 40°C. This operating temperature range ensures stable performance in typical factory conditions, supporting continuous inline inspection processes without compromising accuracy or throughput.

While primarily a 2D X-ray transmission inspection system, this machine shares many characteristics with more advanced 3D X-ray inspection systems, particularly in terms of detector flexibility and high-resolution imaging. This makes it a versatile tool for manufacturers seeking to enhance their quality control capabilities without the complexity and cost associated with full 3D computed tomography systems.

Overall, the Online X-Ray Inspection Machine represents a powerful and efficient inline SMT X-ray equipment solution that addresses the demanding needs of modern electronics and battery manufacturing. Its combination of high resolution, flexible detector positioning, comprehensive defect detection, and robust data management capabilities makes it an indispensable asset for ensuring product reliability and safety. Whether inspecting delicate semiconductor packages or scrutinizing battery internals for hidden faults, this X-ray inspection system delivers precise, actionable insights that help manufacturers maintain high standards and reduce costly failures.

Features:

- Product Name: Online X-Ray Inspection Machine
- Application: Electronics Manufacturing and Semiconductor Industries
- Non-destructive inspection of PCB Assembly (BGA, QFP), LED Chips, Batteries, FPC, Electronic Components, and Connectors
- Resolution: X-ray Tube Focal Spot Size of 5 µm; Geometric Magnification up to 150X
- Operating Temperature Range: 0°C to 40°C
- User Interface: 24" HD Monitor with Joystick, Mouse, and Keyboard Combined Control
- Software: Self-developed software featuring CNC automated inspection programming, navigation & positioning
- Automatic void ratio calculation and dimension measurement including distance, angle, and circle
- AI-based defect judgment with customizable algorithms for enhanced accuracy
- Provides an automatic Industrial X-ray machine solution for high-precision inspection needs
- Reliable X-ray inspection solution designed for seamless integration in industrial environments
- Offers an automatic Industrial X-ray machine capability for efficient and accurate quality control

Technical Parameters:

Detection Objects	Electronic Components, Semiconductors (BGA, IC, LED, FPC, Connectors, Etc.), Batteries (18650 Battery, Pouch Cell Battery, Etc.) Internal Defect Inspection (voids, Cracks, Broken Wires, Etc.)
Resolution	X-ray Tube Focal Spot Size: 5 µm; Geometric Magnification: 150X
Tube Type	HAMAMATSU (Japan) Closed Microfocus X-ray Source
Inspection Type	X-ray Transmission Inspection (2D), Detector Tiltable 45° Left And Right (90° Total Viewing Angle)
Data Output	Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
User Interface	24" HD Monitor, Joystick + Mouse + Keyboard Combined Control
Operating Temperature	0°C To 40°C
Application	Electronics Manufacturing And Semiconductor Industries: Non-destructive Inspection Of PCB Assembly (BGA, QFP), LED Chips, Batteries, FPC, Electronic Components And Connectors

Power Consumption	Max Power 2.0 KW
Weight	Approx. 1250 Kg

Applications:

The WISDOMSHOW S-7200 Online X-Ray Inspection Machine is a cutting-edge X-ray inspection solution designed to meet the rigorous demands of modern electronics manufacturing and semiconductor industries. Originating from China and certified with CE, this advanced 3D X-ray inspection system offers unparalleled precision and reliability for non-destructive inspection of a wide range of components including PCB assemblies such as BGA and QFP, LED chips, batteries like 18650 and pouch cell batteries, flexible printed circuits (FPC), connectors, and other electronic components.

Ideal for production lines requiring high throughput and accuracy, the S-7200 utilizes a microfocus X-ray inspection system with an X-ray tube focal spot size of just 5 μm and geometric magnification up to 150X. This allows for detailed internal defect inspection, detecting voids, cracks, broken wires, and other hidden flaws that could compromise product quality. Its self-developed software integrates CNC automated inspection programming, navigation and positioning, automatic void ratio calculation, precise dimension measurement (distance, angle, circle), and customizable AI defect judgment algorithms, providing a comprehensive and intelligent inspection workflow. The S-7200 is perfectly suited for application occasions where stringent quality control is critical, such as in semiconductor fabrication, electronic component assembly, battery manufacturing, and research and development laboratories. It supports inline inspection in high-volume production environments, ensuring defects are identified early without damaging the products. Thanks to its robust design weighing approximately 1250 kg and standard export wooden case packaging, it can be seamlessly integrated into existing production lines worldwide.

With a supply ability of approximately 50-100 units per month and flexible payment terms including T/T and negotiable options, the WISDOMSHOW S-7200 is accessible for businesses aiming to enhance their quality assurance processes. The machine complies with Radiation Safety License requirements (Yue Huan Fu Zheng [B0774]) and exemption filing for radioisotopes and radiation devices, ensuring safe operation within industrial settings.

In summary, the WISDOMSHOW S-7200 Online X-Ray Inspection Machine is an essential tool for manufacturers seeking a reliable, high-resolution 3D X-ray inspection system that delivers precise defect detection and dimensional analysis. Its advanced microfocus X-ray technology, intelligent software, and robust construction make it an ideal choice for diverse application scenarios including electronics manufacturing, semiconductor inspection, battery quality control, and complex component analysis.



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