



S-7200 X-Ray Inspection Machine Userinterface 24 HD Monitor Online Approx 1250 Kg Featuring FPC Suitable for Inline Inspection and Assurance

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

- Weight: Approx. 1250 Kg
- Dataoutput: Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
- Inspection Type: X-ray Transmission Inspection (2D), Detector Tilttable 45° Left And Right (90° Total Viewing Angle)
- Dimensions: 1300 Mm (L) × 1320 Mm (W) × 1800 Mm (H)
- 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.)
- Operatingtemperature: 0°C To 40°C
- Resolution: X-ray Tube Focal Spot Size: 5 μm; Geometric Magnification: 150X

Product Description:

The Online X-Ray Inspection Machine is an advanced 3D X-ray inspection system designed to meet the demanding needs of modern electronics manufacturing and semiconductor industries. This state-of-the-art real-time X-ray machine offers precise, non-destructive inspection capabilities, ensuring the highest quality standards for a wide range of electronic components and assemblies. Equipped with a 24" HD monitor and a versatile joystick, mouse, and keyboard combined control interface, the system provides an intuitive user experience, allowing operators to easily navigate and control inspection processes with accuracy and efficiency.

This cutting-edge 3D X-ray inspection system is engineered to detect internal defects in various critical components, including electronic components, semiconductors such as BGA, IC, LED, FPC, connectors, and batteries like 18650 and pouch cell batteries. Its powerful inspection capabilities enable detailed internal defect detection, including voids, cracks, broken wires, and other anomalies that could compromise product reliability. By identifying these defects early in the production process, manufacturers can significantly reduce failure rates and enhance overall product quality.

Powered by a stable 220V AC, 50/60 Hz power supply, the Online X-Ray Inspection Machine ensures consistent and reliable operation in a variety of industrial environments. Its self-developed software is a remarkable feature that integrates CNC automated inspection programming, navigation and positioning functions, and automatic void ratio calculation. Additionally, it offers dimension measurement capabilities, such as distance, angle, and circle measurements, to provide comprehensive analytical data for quality control and process optimization.

One of the most innovative aspects of this real-time X-ray machine is its AI defect judgment capability. The customizable algorithms allow users to tailor defect detection criteria to specific production requirements, enhancing inspection accuracy and reducing false positives. This intelligent software-driven approach streamlines the inspection workflow, saving time and labor costs while improving the reliability of defect identification.

The Online X-Ray Inspection Machine is ideally suited for non-destructive inspection applications in electronics manufacturing and semiconductor industries. It excels in inspecting PCB assemblies such as BGA and QFP, LED chips, batteries, FPCs, electronic components, and connectors. By providing detailed internal images and precise defect analysis, this machine helps manufacturers maintain stringent quality control, optimize production processes, and ensure product safety and performance.

In summary, this 3D X-ray inspection system combines advanced hardware, intelligent software, and user-friendly controls to deliver unparalleled inspection capabilities. Its ability to perform real-time inspection and AI-powered defect judgment makes it an indispensable tool for manufacturers seeking to enhance product quality and reliability in the highly competitive electronics and semiconductor markets. With the Online X-Ray Inspection Machine, companies can confidently detect and address internal defects, reduce waste, and improve overall manufacturing efficiency.

Features:

- Product Name: Online X-Ray Inspection Machine
- Weight: Approx. 1250 Kg
- 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.
- Operating Temperature Range: 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
- User Interface: 24" HD Monitor, Joystick + Mouse + Keyboard Combined Control
- Features a Microfocus X-ray inspection system for high precision defect detection
- Designed as an Industrial X-ray machine suitable for rigorous manufacturing environments
- Specialized PCB X-ray machine capabilities for detailed inspection of printed circuit boards

Technical Parameters:

Weight	Approx. 1250 Kg
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)
Data Output	Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
Inspection Type	X-ray Transmission Inspection (2D), Detector Tilttable 45° Left And Right (90° Total Viewing Angle)
Dimensions	1300 Mm (L) × 1320 Mm (W) × 1800 Mm (H)
Tube Type	HAMAMATSU (Japan) Closed Microfocus X-ray Source

Power Consumption	Max Power 2.0 KW
User Interface	24" HD Monitor, Joystick + Mouse + Keyboard Combined Control
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 μ m; Geometric Magnification: 150X

Applications:

The WISDOMSHOW Online X-Ray Inspection Machine, model S-7200, is a state-of-the-art Microfocus X-ray inspection system designed for a wide range of application occasions and scenarios. Originating from China and certified with CE, this advanced inspection equipment is ideal for industries requiring precise and reliable non-destructive testing and quality control. Its robust design, with dimensions of 1300 mm (L) \times 1320 mm (W) \times 1800 mm (H), operates efficiently within a temperature range of 0°C to 40°C, making it suitable for various factory and laboratory environments.

This Microfocus X-ray inspection system excels in inspecting electronic components, automotive parts, aerospace materials, and medical devices, where high-resolution imaging and accurate defect detection are critical. The system's X-ray transmission inspection capabilities (2D) combined with a tiltable detector offering a 90° total viewing angle allow for comprehensive internal visualization without damaging the product. This makes it perfect for inline production monitoring, failure analysis, and quality assurance in manufacturing lines.

Furthermore, the S-7200 supports automatic void ratio calculation, dimension measurement (distance, angle, circle), and AI defect judgment through customizable algorithms embedded in its self-developed software. These features enable users to automate inspection processes, reduce human error, and increase throughput. The system's data output functionality, including image saving and measurement data storage, facilitates traceability and documentation, which are crucial in regulated industries such as and electronics.

In addition to 2D inspection, the WISDOMSHOW Online X-Ray Inspection Machine can be integrated or upgraded with 3D X-ray inspection system capabilities, expanding its application scope to more complex inspection scenarios, such as volumetric analysis and 3D defect reconstruction. This makes it invaluable for research and development, product validation, and advanced failure diagnostics.

With a supply ability of approximately 50-100 units per month and flexible payment terms (T/T, negotiable), the S-7200 is packaged securely in standard export wooden cases to ensure safe shipping worldwide. It complies with strict radiation safety standards, holding a Radiation Safety License (Yue Huan Fu Zheng [B0774]) and exemption filings for radioisotopes and radiation devices, ensuring safe operation in diverse industrial settings.

In summary, the WISDOMSHOW S-7200 Online Microfocus X-ray inspection system serves multiple industries and scenarios, including manufacturing lines, quality control labs, and research facilities, offering precise, efficient, and safe inspection solutions that meet modern inspection demands.



Shenzhen Wisdomshow Technology Co.,Ltd



+86 18926538696



elysia.li@wdsbga.cn



bgaxraymachine.com

No.6,Haosi Western Industry,Shangjing Town,Bao'an District,Shenzhen,China