

Data Output Image Saving Measurement Data Void Ratio Online X-Ray Inspection Machine Operating Temperature 0°C To 40°C With User Interface

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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

- 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)
- Dataoutput: Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
- Power Consumption: Max Power 2.0 KW
- Tube Type: HAMAMATSU (Japan) Closed Microfocus X-ray Source
- Power Supply: 220V AC, 50/60 Hz
- Operatingtemperature: 0°C To 40°C
- Application: Electronics Manufacturing And Semiconductor Industries: Non-destructive



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Product Description:

The Online X-Ray Inspection Machine is a state-of-the-art industrial X-ray machine designed specifically for high-precision non-destructive testing in electronics manufacturing and semiconductor industries. This advanced X-ray inspection system is engineered to deliver reliable and accurate inspection results, ensuring the highest quality standards for PCB assemblies, LED chips, batteries, FPC, electronic components, and connectors. With its cutting-edge technology, the machine facilitates thorough examination of intricate internal structures without compromising the integrity of the products.

One of the standout features of this X-ray solder joint inspection system is its user-friendly interface. Equipped with a 24-inch display, the interface provides operators with clear visuals and intuitive controls, making the inspection process efficient and straightforward. This large display enhances the ability to identify defects such as solder joint issues, voids, misalignments, and other hidden anomalies that are not detectable by traditional optical inspection methods.

In terms of physical design, the Online X-Ray Inspection Machine has compact dimensions of 1300 mm in length, 1320 mm in width, and 1800 mm in height. This size makes it suitable for integration into various production lines without requiring excessive space, enabling manufacturers to optimize their workflow. Despite its compact footprint, the machine is robust and built to withstand the demands of industrial environments.

The operating temperature range of 0°C to 40°C ensures that the machine performs consistently in a variety of manufacturing settings, accommodating typical factory conditions. This temperature tolerance contributes to the machine's durability and reliability, minimizing downtime and maintenance requirements.

Powering the system is a standard 220V AC supply compatible with both 50 Hz and 60 Hz frequencies, making it adaptable to global power standards. This versatility allows manufacturers worldwide to incorporate the Online X-Ray Inspection Machine into their facilities with ease, without the need for special electrical arrangements.

The application scope of this X-ray inspection system is extensive and tailored to the needs of electronics manufacturing and semiconductor industries. It excels at non-destructive inspection of PCB assemblies, including complex components like Ball Grid Arrays (BGA) and Quad Flat Packages (QFP). Additionally, it is highly effective in examining LED chips, batteries, flexible printed circuits (FPC), and a wide range of electronic components and connectors. This broad applicability makes the machine an invaluable asset for quality control teams aiming to enhance product reliability and reduce failure rates.

By integrating this Online X-Ray Inspection Machine into production lines, manufacturers can achieve a significant improvement in defect detection rates and process optimization. The X-ray solder joint inspection system identifies soldering defects early in the manufacturing process, preventing costly rework and enhancing overall product yield. Moreover, the non-destructive nature of the inspection ensures that products remain intact and unaffected, preserving their value and usability.

In conclusion, the Online X-Ray Inspection Machine is a highly capable industrial X-ray machine offering precision, reliability, and ease of use. Its advanced X-ray inspection system technology, combined with a large user interface, compact design, and robust operating parameters, makes it an essential tool for electronics and semiconductor manufacturers focused on quality assurance. Investing in this X-ray solder joint inspection system means committing to superior product quality, increased production efficiency, and enhanced competitive advantage in the market.

Features:

- Product Name: Online X-Ray Inspection Machine
- Software: Self-developed software with CNC automated inspection programming, navigation & positioning
- Features: Automatic void ratio calculation, dimension measurement (distance/angle/circle), and AI defect judgment with customizable algorithms
- Application: Electronics manufacturing and semiconductor industries for non-destructive inspection of PCB assembly (BGA, QFP), LED chips, batteries, FPC, electronic components, and connectors
- Detection Objects: Electronic components, semiconductors (BGA, IC, LED, FPC, connectors, etc.), batteries (18650 battery, pouch cell battery, etc.) with internal defect inspection (voids, cracks, broken wires, etc.)
- Power Consumption: Max power 2.0 KW
- Power Supply: 220V AC, 50/60 Hz
- Type: PCB X-ray machine and automatic X-ray machine for efficient and reliable inspection processes
- Automation: Fully automatic X-ray machine ensuring high precision and throughput

Technical Parameters:

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)
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.)
Weight	Approx. 1250 Kg
Application	Electronics Manufacturing And Semiconductor Industries: Non-destructive Inspection Of PCB Assembly (BGA, QFP), LED Chips, Batteries, FPC, Electronic Components And Connectors

Inspection Type	X-ray Transmission Inspection (2D), Detector Tilttable 45° Left And Right (90° Total Viewing Angle)
Data Output	Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
Dimensions	1300 Mm (L) × 1320 Mm (W) × 1800 Mm (H)
Power Supply	220V AC, 50/60 Hz
User Interface	24"

Applications:

The WISDOMSHOW S-7200 Online X-Ray Inspection Machine is a highly advanced automatic industrial X-ray machine designed to meet the stringent demands of modern manufacturing and quality control processes. Certified with CE and backed by a Radiation Safety License (Yue Huan Fu Zheng [B0774]), this X-ray NDT equipment ensures both safety and reliability in diverse inspection environments. Its robust design, with dimensions of 1300 mm (L) × 1320 mm (W) × 1800 mm (H) and weighing approximately 1250 kg, makes it suitable for continuous and high-volume inspection tasks.

This X-ray solder joint inspection system is primarily used in the electronics manufacturing industry for detecting internal defects in electronic components and semiconductors, including BGA, IC, LED, FPC, connectors, and more. It excels at identifying voids, cracks, broken wires, and other critical flaws within these components, ensuring the highest quality and reliability of electronic assemblies. It is also widely used for battery inspection, specifically for 18650 batteries and pouch cell batteries, where internal defect detection is crucial to prevent failures and safety hazards.

Thanks to its powerful 220V AC, 50/60 Hz power supply and a maximum power consumption of 2.0 KW, the S-7200 operates efficiently in various industrial settings. The machine is packaged with standard export wooden case packaging, ensuring safe transportation and easy installation at the customer site. With a supply ability of approximately 50-100 units per month and flexible payment terms such as T/T and negotiable options, WISDOMSHOW provides reliable delivery and purchasing convenience.

The WISDOMSHOW S-7200 is ideal for use in manufacturing plants, quality assurance laboratories, and research and development centers where precise and non-destructive testing is required. Its online inspection capability allows it to integrate seamlessly into production lines, providing real-time defect detection and ensuring that only defect-free products proceed to the next stage. This capability significantly reduces downtime and improves yield rates, making it an indispensable tool in electronics and battery production.

In summary, the WISDOMSHOW S-7200 Online X-Ray Inspection Machine is an essential X-ray NDT equipment solution for industries requiring meticulous internal inspection of electronic components and batteries. Its advanced technology, compliance with safety standards, and user-friendly features make it the preferred choice for companies seeking to enhance product quality and safety through reliable and automatic industrial X-ray inspection.

Support and Services:

Our Online X-Ray Inspection Machine is supported by a dedicated technical support team committed to ensuring optimal performance and reliability. We offer comprehensive installation guidance, user training, and routine maintenance services to keep your inspection system operating at peak efficiency.

In addition to standard support, we provide software updates and system upgrades to incorporate the latest advancements in X-ray inspection technology. Our experts are available to assist with troubleshooting, calibration, and customization to meet your specific inspection requirements.

We also offer extended warranty options and preventive maintenance contracts to minimize downtime and extend the lifespan of your equipment. Our goal is to deliver seamless integration and continuous support, ensuring your Online X-Ray Inspection Machine delivers accurate and consistent results in your production line.

Packing and Shipping:

Product Packaging:

The Online X-Ray Inspection Machine is carefully packaged using high-quality, durable materials to ensure maximum protection during transit. Each unit is securely placed in custom foam inserts within a sturdy wooden crate to prevent any movement or damage. The packaging is designed to withstand rough handling and environmental factors, preserving the machine's delicate components. Additionally, all accessories, cables, and manuals are neatly organized and included within the package.

Shipping:

We offer reliable and efficient shipping options for the Online X-Ray Inspection Machine worldwide. The product is shipped via trusted carriers with tracking services to ensure timely delivery. Prior to shipping, each machine undergoes a thorough inspection and testing process to guarantee it meets quality standards. Customers will receive detailed shipping information, including estimated delivery dates and tracking numbers. Special handling instructions are followed to maintain the integrity of the machine throughout the shipping process.

FAQ:

Q1: What is the brand and model of the Online X-Ray Inspection Machine?

A1: The Online X-Ray Inspection Machine is branded WISDOMSHOW, and the model number is S-7200.

Q2: Does the machine have any certifications?

A2: Yes, the machine is CE certified, ensuring it meets European safety and quality standards.

Q3: What is the minimum order quantity and are there any special licensing requirements?

A3: The minimum order quantity requires a Radiation Safety License (Yue Huan Fu Zheng [B0774]) and an Exemption Filing for

Radioisotopes and Radiation Devices.

Q4: How is the Online X-Ray Inspection Machine packaged for shipping?

A4: The machine is packed in a standard export wooden case packaging to ensure it is secure and protected during transportation.

Q5: What are the payment terms and the supply capacity for this product?

A5: Payment terms are typically T/T and negotiable. The supply ability is approximately 50-100 units per month.



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