



Online X-Ray Inspection Machine with Automatic Void Ratio Calculation and HAMAMATSU Microfocus X-ray Source for PCB 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

- Power Supply: 220V AC, 50/60 Hz
- Tube Type: HAMAMATSU (Japan) Closed Microfocus X-ray Source
- Application: Electronics Manufacturing And Semiconductor Industries: Non-destructive Inspection Of PCB Assembly (BGA, QFP), LED Chips, Batteries, FPC, Electronic Components And Connectors
- Operatingtemperature: 0°C To 40°C
- Resolution: X-ray Tube Focal Spot Size: 5 μ m; Geometric Magnification: 150X
- Dataoutput: Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
- Weight: Approx. 1250 Kg
- Power Consumption: Max Power 2.0 KW



More Images



Product Description:

The Online X-Ray Inspection Machine is a state-of-the-art PCB X-ray machine designed to meet the rigorous demands of modern industrial inspection processes. Engineered as an automatic industrial X-ray machine, it provides highly accurate and efficient X-ray transmission inspection (2D), ensuring precise analysis and defect detection in printed circuit boards and other critical components. This machine is ideal for quality control in manufacturing environments where reliability and detailed inspection are paramount.

One of the standout features of this X-ray NDT equipment is its advanced detector system, which is tiltable 45° to the left and right, offering a comprehensive 90° total viewing angle. This flexibility allows operators to inspect components from multiple perspectives without repositioning the sample, significantly enhancing inspection efficiency and accuracy. The 2D X-ray transmission inspection technology enables the detection of hidden defects such as solder joint issues, cracks, voids, and misalignments that are not visible through conventional inspection methods.

Weighing approximately 1250 kg, the Online X-Ray Inspection Machine is a robust and stable unit, built to withstand the demanding conditions of industrial environments. Despite its substantial weight, it is designed for ease of integration into existing production lines, supporting continuous operation without compromising on performance. The machine operates on a standard power supply of 220V AC at 50/60 Hz, making it compatible with electrical systems worldwide, and it boasts a maximum power consumption of just 2.0 KW, ensuring energy efficiency alongside high performance.

Designed to function optimally within an operating temperature range of 0°C to 40°C, this PCB X-ray machine is suitable for various manufacturing settings, from climate-controlled cleanrooms to more conventional industrial spaces. Its durable construction and reliable components ensure consistent operation, minimizing downtime and maintenance requirements. The machine's user-friendly interface and automated inspection capabilities reduce the need for extensive operator training, allowing for quick adoption and streamlined production workflows.

As an automatic industrial X-ray machine, it supports real-time defect detection and data analysis, enabling manufacturers to maintain high-quality standards and reduce the risk of defective products reaching the market. This X-ray NDT equipment is particularly valuable in sectors where precision and safety are critical, such as electronics manufacturing, aerospace, automotive, and medical device production. By integrating the Online X-Ray Inspection Machine into your quality control processes, you can enhance product reliability, improve yield rates, and maintain compliance with industry standards.

In summary, the Online X-Ray Inspection Machine combines cutting-edge 2D X-ray transmission inspection technology with a versatile detector tilting mechanism, robust construction, and energy-efficient operation. Its design caters specifically to the needs of modern manufacturing environments, providing a reliable solution for detecting hidden defects in PCBs and other industrial components. With its automated features and comprehensive viewing angles, this PCB X-ray machine is an indispensable tool for manufacturers seeking to elevate their quality assurance processes through advanced nondestructive testing capabilities.

Features:

- Product Name: Online X-Ray Inspection Machine
- Weight: Approx. 1250 Kg
- Power Consumption: Max Power 2.0 KW
- Tube Type: HAMAMATSU (Japan) Closed Microfocus X-ray Source
- Software: Self-developed Software with CNC Automated Inspection Programming, Navigation & Positioning
- Automatic Void Ratio Calculation
- Dimension Measurement including distance, angle, and circle
- AI Defect Judgment with customizable algorithms
- Data Output: Image Saving and Measurement Data Storage (void ratio, dimensions, etc.)
- Advanced X-ray NDT equipment designed for precise inline SMT X-ray machine applications
- Comprehensive X-ray inspection solution for quality control and defect analysis

Technical Parameters:

Power Consumption	Max Power 2.0 KW
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)
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
Data Output	Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
Resolution	X-ray Tube Focal Spot Size: 5 µm; Geometric Magnification: 150X

Operating Temperature	0°C To 40°C
User Interface	24-inch Display
Dimensions	1300 Mm (L) × 1320 Mm (W) × 1800 Mm (H)

Applications:

The WISDOMSHOW S-7200 Online X-Ray Inspection Machine is an advanced X-ray inspection solution designed to meet the rigorous demands of modern industrial applications. Certified with CE and equipped with a Radiation Safety License (Yue Huan Fu Zheng [B0774]), this automatic Industrial X-ray machine ensures both safety and reliability during operation. Its high-resolution capability, featuring a 5 µm X-ray tube focal spot size and 150X geometric magnification, allows for precise detection and measurement of complex components and assemblies.

This SMT X-ray machine is ideal for use in electronics manufacturing environments where surface mount technology (SMT) components require thorough inspection to guarantee quality and functionality. The machine's ability to save images and measurement data, including void ratio and various dimensional parameters, provides comprehensive documentation and traceability, essential for quality control and process optimization. Its user interface, with a 24-inch display, offers intuitive operation and easy access to inspection results, making it suitable for both experienced technicians and operators new to X-ray inspection.

In addition to electronics production lines, the S-7200 is well-suited for applications in aerospace, automotive, and medical device manufacturing, where non-destructive testing is critical to ensure product integrity and safety. The machine's robust power supply of 220V AC at 50/60 Hz and ability to operate within a temperature range of 0°C to 40°C allow for flexible deployment in various factory environments. The standard export wooden case packaging ensures safe and secure transportation, supporting the supply ability of approximately 50-100 units per month.

With flexible payment terms including T/T and negotiable options, WISDOMSHOW provides a comprehensive solution for companies seeking a reliable and efficient X-ray inspection system. The S-7200's automatic Industrial X-ray machine capabilities streamline quality assurance processes, reduce inspection time, and enhance defect detection accuracy, making it an indispensable tool for high-volume manufacturing scenarios where precision and safety are paramount.

Support and Services:

Our Online X-Ray Inspection Machine is designed to provide high-precision, non-destructive testing solutions for a wide range of applications. To ensure optimal performance and longevity of the equipment, we offer comprehensive technical support and services tailored to meet your operational needs.

Technical Support:

Our team of experienced engineers and technicians is available to assist with installation, calibration, troubleshooting, and maintenance of your Online X-Ray Inspection Machine. We provide remote diagnostics and on-site support to minimize downtime and maintain inspection accuracy.

Training Services:

We offer detailed training programs for your staff, covering machine operation, safety protocols, software usage, and routine maintenance procedures. Our training ensures that your team can efficiently operate the system and quickly address common issues.

Maintenance and Calibration:

Regular maintenance and calibration are crucial for the reliable functioning of the X-Ray Inspection Machine. We provide scheduled maintenance services, including system checks, component replacements, and calibration to maintain inspection precision and compliance with industry standards.

Software Updates and Upgrades:

To keep your inspection system up-to-date with the latest technological advancements, we offer software updates and upgrades. These enhancements improve system performance, user interface, and add new features to meet evolving inspection requirements.

Spare Parts and Accessories:

We supply genuine spare parts and accessories to ensure the quality and reliability of your X-Ray Inspection Machine. Our inventory includes X-Ray tubes, detectors, cables, and other critical components necessary for uninterrupted operation.

Consultation and Customization:

Our experts provide consultation services to help you optimize the inspection process according to your specific industry standards and product requirements. We also offer customization options to tailor the machine's capabilities to your unique inspection challenges.

By choosing our Online X-Ray Inspection Machine, you gain access to dedicated technical support and a full range of services designed to maximize your inspection efficiency and product quality assurance.

Packing and Shipping:

Product Packaging:

The Online X-Ray Inspection Machine is carefully packaged to ensure safe delivery and optimal protection during transit. The machine is first wrapped in anti-static foam and protective film to prevent any damage from shocks or vibrations. It is then placed inside a sturdy, custom-designed wooden crate that is reinforced with metal brackets for added durability. All accessories and manuals are securely packed in separate compartments within the crate to avoid any movement. The packaging is clearly labeled with handling instructions, including "Fragile" and "This Side Up" to guide logistics personnel.

Shipping:

We offer multiple shipping options to accommodate our customers' needs, including air freight, sea freight, and express courier services. Prior to shipping, the Online X-Ray Inspection Machine undergoes thorough inspection and testing to ensure it is fully operational. The shipment includes all necessary documentation such as the commercial invoice, packing list, and customs clearance papers. We coordinate with reliable logistics partners to provide tracking information and timely delivery updates. Upon arrival, customers are advised to inspect the package for any visible damage and report any issues immediately to ensure prompt resolution.

FAQ:

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

A1: The Online X-Ray Inspection Machine is manufactured by 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 any related requirements?

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

Q4: How is the product packaged for shipment?

A4: The Online X-Ray Inspection Machine is packaged in a standard export wooden case to ensure safe delivery.

Q5: What are the payment terms and supply capacity?

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



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