



Online X-Ray Inspection Machine with 5 μm X-ray Tube Focal Spot Size and HAMAMATSU Closed Microfocus X-ray Source Featuring Data Storage Function

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

- Operating temperature: 0°C To 40°C
- Weight: Approx. 1250 Kg
- Dimensions: 1300 Mm (L) \times 1320 Mm (W) \times 1800 Mm (H)
- Resolution: X-ray Tube Focal Spot Size: 5 μm ;
Geometric Magnification: 150X
- Power Consumption: Max Power 2.0 KW
- Data output: Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
- 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



More Images



Product Description:

The Online X-Ray Inspection Machine is a state-of-the-art X-ray NDT equipment designed specifically for the electronics manufacturing and semiconductor industries. This advanced inline SMT X-ray machine offers precise, non-destructive inspection capabilities essential for ensuring the quality and reliability of various electronic components and assemblies. By integrating cutting-edge technology, the online SMT X-ray machine enables manufacturers to detect internal defects and anomalies that are otherwise invisible through conventional inspection methods.

At the heart of this inspection system lies the HAMAMATSU (Japan) Closed Microfocus X-ray Source tube, renowned for its exceptional performance and reliability. This high-quality X-ray source allows for detailed imaging with high resolution, enabling the detection of minute defects such as voids, cracks, and broken wires within the inspected objects. The closed microfocus design ensures safety and stability during operation, making it an ideal choice for sensitive electronics inspection environments.

The Online X-Ray Inspection Machine is engineered to accommodate a wide range of detection objects commonly found in electronics manufacturing. It is proficient at inspecting electronic components, semiconductors including BGA (Ball Grid Array), IC (Integrated Circuits), LED chips, FPC (Flexible Printed Circuits), connectors, and more. Additionally, it excels in the inspection of batteries such as the popular 18650 battery and pouch cell battery types. Its ability to perform comprehensive internal defect inspection, including identifying voids, cracks, and broken wires, ensures that manufacturers can maintain high product quality and reduce failure rates.

With dimensions of 1300 mm in length, 1320 mm in width, and 1800 mm in height, the machine is compact enough to fit seamlessly into modern manufacturing lines while providing sufficient workspace for thorough inspections. Its design supports inline integration, allowing it to be incorporated directly into SMT (Surface Mount Technology) production lines. This inline capability facilitates real-time inspection and quality control without interrupting the manufacturing process, significantly improving efficiency and throughput.

The machine's application scope is broad, covering the non-destructive inspection of PCB assemblies such as BGA and QFP (Quad Flat Package), LED chips, batteries, FPC, electronic components, and connectors. Its versatility makes it invaluable for semiconductor fabs, electronics assembly plants, battery manufacturers, and research laboratories focused on component integrity and reliability.

Operating the machine is convenient and straightforward, powered by a standard 220V AC supply with 50/60 Hz frequency compatibility. This power specification ensures that the equipment can be easily deployed in various global manufacturing settings without the need for specialized electrical infrastructure. The robust power supply contributes to the machine's stable operation, ensuring consistent inspection performance over extended periods.

In summary, the Online X-Ray Inspection Machine stands out as an essential inline SMT X-ray machine offering superior detection capabilities for electronic components and semiconductors. Its utilization of HAMAMATSU's closed microfocus X-ray tube technology, combined with its compact dimensions and versatile application range, makes it a highly effective X-ray NDT equipment solution. By enabling non-destructive, real-time inspection of critical components such as BGA, IC, LED chips, batteries, and connectors, this machine helps manufacturers achieve higher quality standards, reduce defects, and enhance overall production efficiency.

Features:

- Product Name: Online X-Ray Inspection Machine
- Inspection Type: X-ray Transmission Inspection (2D) with Detector Tilttable 45° Left and Right (90° Total Viewing Angle)
- Resolution: X-ray Tube Focal Spot Size of 5 µm; Geometric Magnification up to 150X
- Weight: Approximately 1250 Kg
- Detection Objects: Electronic Components, Semiconductors (BGA, IC, LED, FPC, Connectors, etc.), Batteries (18650 Battery, Pouch Cell Battery, etc.)
- Internal Defect Inspection Capabilities: Detects voids, cracks, broken wires, and other defects
- Operating Temperature Range: 0°C to 40°C
- Designed as an automatic X-ray machine for efficient inline SMT X-ray equipment applications
- High precision automatic X-ray machine ensuring reliable defect detection in manufacturing processes

Technical Parameters:

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)
Power Supply	220V AC, 50/60 Hz
User Interface	24"
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: 5 µm; Geometric Magnification: 150X
Inspection Type	X-ray Transmission Inspection (2D), Detector Tilttable 45° Left And Right (90° Total Viewing Angle)
Weight	Approx. 1250 Kg

Power Consumption	Max Power 2.0 KW
Tube Type	HAMAMATSU (Japan) Closed Microfocus X-ray Source
Data Output	Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function

Applications:

The WISDOMSHOW S-7200 Online X-Ray Inspection Machine is a highly advanced X-ray inspection equipment designed for diverse industrial applications. Certified with CE and complying with Radiation Safety License (Yue Huan Fu Zheng [B0774]) as well as Exemption Filing For Radioisotopes And Radiation Devices, this industrial X-ray machine ensures safety and reliability in demanding inspection environments. With a robust build weighing approximately 1250 kg and compact dimensions of 1300 mm (L) × 1320 mm (W) × 1800 mm (H), the S-7200 is ideal for integration into automated production lines, offering efficient and precise non-destructive testing (NDT).

This X-ray NDT equipment is particularly suited for the inspection of electronic components and semiconductors such as BGAs, ICs, LEDs, FPCs, and connectors. It excels in detecting internal defects like voids, cracks, and broken wires, which are critical for ensuring product quality and reliability in high-tech manufacturing sectors. Moreover, the machine is capable of inspecting batteries, including 18650 and pouch cell batteries, making it invaluable for the energy storage and electric vehicle industries where safety and performance are paramount.

Equipped with self-developed software featuring CNC automated inspection programming, navigation and positioning, automatic void ratio calculation, dimension measurement (distance, angle, circle), and AI defect judgment with customizable algorithms, the S-7200 provides unparalleled precision and adaptability. This software suite allows operators to program complex inspection routines and obtain real-time, accurate defect analysis, greatly enhancing production efficiency and quality control.

The WISDOMSHOW S-7200 is perfect for manufacturing plants, quality assurance laboratories, and research facilities that require rigorous inspection standards. Its relatively low maximum power consumption of 2.0 KW ensures energy-efficient operation without compromising performance. Supplied with standard export wooden case packaging and flexible payment terms including T/T and negotiable options, the S-7200 is available with a supply ability of approximately 50-100 units per month, meeting the demands of various industries worldwide.

In summary, the WISDOMSHOW S-7200 online X-ray inspection machine is an indispensable tool for industries requiring reliable and detailed internal inspections. As a top-tier industrial X-ray machine and X-ray NDT equipment, it supports enhanced product quality, safety, and compliance in electronic manufacturing, battery production, and more.

Support and Services:

Our Online X-Ray Inspection Machine is designed to provide precise and reliable inspection solutions for a variety of industries. To ensure optimal performance and longevity of the equipment, we offer comprehensive technical support and services.

Technical Support:

Our team of experienced engineers is available to assist with installation, setup, and calibration of the X-Ray inspection system. We provide troubleshooting guidance and remote diagnostics to quickly resolve any operational issues. Regular software updates and maintenance tips are also provided to keep your machine running smoothly.

Training Services:

We offer detailed training sessions for operators and maintenance personnel to ensure proper use and upkeep of the inspection machine. This includes hands-on training, user manual provision, and best practice guidelines to maximize inspection accuracy and efficiency.

Maintenance and Repairs:

Scheduled maintenance services are available to prevent unexpected downtime and extend the lifespan of the equipment. Our technicians are equipped to perform on-site repairs and replacements of parts using genuine components to maintain system integrity.

Customization and Upgrades:

We provide options for system customization and software upgrades tailored to specific inspection requirements. This ensures that your X-Ray inspection machine stays up-to-date with the latest technological advancements and industry standards.

Customer Support:

Dedicated customer support is available to answer any questions and provide assistance throughout the lifecycle of your product. Our goal is to ensure customer satisfaction and help you achieve maximum productivity with your Online X-Ray Inspection Machine.

Packing and Shipping:

Product Packaging:

The Online X-Ray Inspection Machine is carefully packaged to ensure safe delivery and protection during transit. The machine is securely placed in a custom-fit foam-lined wooden crate to prevent any movement or damage. All delicate components are wrapped with anti-static and shock-absorbing materials. The exterior of the packaging is clearly labeled with handling instructions such as "Fragile," "This Side Up," and "Handle with Care" to ensure proper handling throughout the shipping process.

Shipping:

We offer reliable shipping options for the Online X-Ray Inspection Machine, including air freight, sea freight, and express courier services depending on your location and urgency. The product is shipped with full insurance coverage to protect against any damage or loss during transit. Tracking information will be provided once the shipment is dispatched, allowing you to monitor the delivery status in real-time. Our logistics team coordinates closely with carriers to ensure timely and safe delivery to your specified address.

FAQ:

Q1: What is the brand and model number of the 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 Online X-Ray Inspection 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 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 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 payment terms are accepted for purchasing the machine?

A5: Payment terms include T/T (Telegraphic Transfer), and other terms are negotiable based on the order.

Q6: What is the supply capacity of the Online X-Ray Inspection Machine?

A6: The supplier can provide approximately 50-100 units per month, depending on demand and order specifics.



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