



## S- 7200 X-RAY Inspection Machine QFP Online X-Ray Inspection Machine Using HAMAMATSU Japan Closed Microfocus X-Ray Source for Semiconductor BGA Detection Objects

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

- Tube Type: HAMAMATSU (Japan) Closed Microfocus X-ray Source
- 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)
- Dataoutput: Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
- 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

**Product Description:**

The Online X-Ray Inspection Machine is a state-of-the-art X-ray inspection equipment designed to provide precise and reliable non-destructive testing for various applications in the electronics manufacturing and semiconductor industries. Equipped with a HAMAMATSU (Japan) Closed Microfocus X-ray Source, this machine ensures exceptional image clarity and high-resolution inspection capabilities, making it an ideal choice for quality control and defect detection in complex electronic assemblies.

One of the standout features of this X-ray inspection solution is its advanced Microfocus X-ray inspection system, which allows for detailed examination of intricate components such as PCB assemblies, including BGA (Ball Grid Array) and QFP (Quad Flat Package), LED chips, batteries, FPC (Flexible Printed Circuits), electronic components, and connectors. This level of inspection is critical for identifying hidden defects such as solder joint issues, cracks, voids, and misalignments that are not detectable through traditional visual inspection methods.

Designed with user convenience and operational efficiency in mind, the Online X-Ray Inspection Machine operates on a standard power supply of 220V AC, 50/60 Hz, ensuring compatibility with a wide range of industrial environments. Despite its powerful inspection capabilities, the system maintains a maximum power consumption of only 2.0 KW, contributing to energy efficiency and cost-effectiveness during continuous operation.

The physical dimensions of the machine are thoughtfully engineered to balance inspection capacity and workspace requirements. Measuring 1300 mm in length, 1320 mm in width, and 1800 mm in height, the compact footprint allows for easy integration into existing production lines without requiring excessive floor space. This makes it an excellent choice for manufacturers looking to enhance their quality assurance processes without significant facility modifications.

In addition to its technical specifications, the Online X-Ray Inspection Machine is designed to deliver consistent, repeatable results, ensuring that manufacturers can maintain high product quality standards while minimizing the risk of defective products reaching the market. Its advanced imaging technology and precise control mechanisms allow operators to quickly identify and analyze defects, streamlining the inspection process and reducing downtime.

As a comprehensive X-ray inspection solution, this system supports a wide range of applications within the electronics and semiconductor industries. Whether inspecting densely packed PCB assemblies, delicate LED chips, or complex battery structures, the machine's Microfocus X-ray inspection system provides the clarity and accuracy needed to detect even the smallest anomalies. This capability is essential for industries where product reliability and performance are critical.

In summary, the Online X-Ray Inspection Machine represents a powerful, efficient, and reliable X-ray inspection equipment option for manufacturers seeking to improve their quality control processes. Featuring a premium HAMAMATSU closed microfocus X-ray source, energy-efficient design, and a compact footprint, this machine offers an unmatched X-ray inspection solution tailored to the demanding needs of electronics manufacturing and semiconductor industries. Its advanced inspection capabilities and user-friendly design make it an indispensable tool for ensuring product integrity and enhancing overall production efficiency.

**Features:**

- Product Name: Online X-Ray Inspection Machine
- Type: Inline SMT X-ray equipment, Microfocus X-ray inspection system, X-ray NDT equipment
- Power Consumption: Max Power 2.0 KW
- 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.
- Power Supply: 220V AC, 50/60 Hz
- Resolution: X-ray Tube Focal Spot Size: 5 µm; Geometric Magnification: 150X

**Technical Parameters:**

Operating Temperature	0°C To 40°C
Dimensions	1300 Mm (L) * 1320 Mm (W) * 1800 Mm (H)
Power Supply	220V AC, 50/60 Hz
Tube Type	HAMAMATSU (Japan) Closed Microfocus X-ray Source
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.)
Data Output	Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
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)
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)

### Applications:

The WISDOMSHOW S-7200 Online X-Ray Inspection Machine is an advanced X-ray NDT equipment designed for precise and reliable inspection in various industrial applications. Originating from China and certified with CE, this cutting-edge inline SMT X-ray equipment offers superior performance with its HAMAMATSU (Japan) closed microfocus X-ray source. The machine boasts a remarkable resolution, featuring an X-ray tube focal spot size of just 5 μm and a geometric magnification of up to 150X, enabling detailed inspection of even the smallest defects in electronic components and semiconductor devices.

This online SMT X-ray machine is ideally suited for manufacturing environments where quality control and defect detection are critical. It is widely used in the inspection of electronic components such as BGAs, ICs, LEDs, FPCs, and connectors, ensuring that all parts meet the highest standards before proceeding to the next stage of production. Additionally, it excels in battery inspection, including 18650 batteries and pouch cell batteries, identifying internal defects such as voids, cracks, and broken wires that could compromise safety and performance.

The S-7200's data output capabilities include image saving and measurement data storage functions, allowing users to analyze void ratios, dimensions, and other critical parameters efficiently. This feature supports seamless integration into production lines for continuous monitoring and quality assurance. With an operating temperature range of 0°C to 40°C, the machine is adaptable to various factory environments, maintaining consistent performance throughout.

Companies requiring high throughput can benefit from WISDOMSHOW's supply ability of approximately 50-100 units per month, supported by secure standard export wooden case packaging to ensure safe delivery. The product complies with essential radiation safety licenses and exemption filings for radioisotopes and radiation devices, making it a trustworthy choice for regulated industrial settings. Flexible payment terms, including T/T and negotiable options, facilitate straightforward procurement processes.

In summary, the WISDOMSHOW S-7200 online SMT X-ray machine is an indispensable tool for electronics manufacturers and battery producers aiming to enhance product reliability through non-destructive testing. Its high resolution, comprehensive data management, and robust build quality make it a leading solution in the field of inline SMT X-ray equipment and X-ray NDT equipment.



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