



S-7200 X-RAY Inspection Machine 1300 Mm L 1320 Mm W 1800 Mm H SMT X-ray machine suitable operating temperature 0°C to 40°C ideal for industrial inspection and control

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)
- Weight: Approx. 1250 Kg
- Dataoutput: Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
- Userinterface: 24" HD Monitor, Joystick + Mouse + Keyboard Combined Control
- Power Consumption: Max Power 2.0 KW
- Dimensions: 1300 Mm (L) × 1320 Mm (W) × 1800 Mm (H)
- Power Supply: 220V AC, 50/60 Hz
- Tube Tvoe: HAMAMATSU (Japan) Closed Microfocus X-

Product Description:

The Online X-Ray Inspection Machine is an advanced X-ray inspection solution designed to meet the rigorous demands of modern electronics manufacturing and semiconductor industries. This cutting-edge inline SMT X-ray machine provides precise, non-destructive inspection capabilities that ensure the highest quality standards for a wide range of electronic components and assemblies. By integrating state-of-the-art technology with user-friendly operation, this X-ray inspection equipment is an indispensable tool for manufacturers striving to enhance product reliability and reduce defects.

One of the standout features of this Online X-Ray Inspection Machine is its robust operating temperature range, functioning efficiently between 0°C to 40°C. This broad temperature tolerance allows the machine to perform reliably in diverse manufacturing environments without compromising accuracy or speed. Additionally, the system is powered by a stable 220V AC supply with a frequency of 50/60 Hz, ensuring consistent performance and compatibility with global power standards. Despite its powerful capabilities, the machine maintains a maximum power consumption of just 2.0 KW, offering an energy-efficient solution suitable for continuous operation on the production line. At the core of this inline SMT X-ray machine lies the HAMAMATSU (Japan) closed microfocus X-ray tube, renowned for its exceptional image clarity and precision. This premium tube type delivers high-resolution X-ray images that enable detailed inspection of complex PCB assemblies, including Ball Grid Arrays (BGA), Quad Flat Packages (QFP), and other intricate components. The microfocus technology allows for sharp and accurate imaging, uncovering defects such as solder joint issues, voids, and misalignments that are often invisible to conventional inspection methods.

The application scope of this X-ray inspection equipment is extensive, making it highly versatile for various production needs. It is expertly tailored for non-destructive inspection of PCB assemblies, LED chips, batteries, Flexible Printed Circuits (FPC), electronic components, and connectors. This comprehensive capability allows manufacturers to detect and analyze a wide array of potential faults without damaging the products, thereby preserving their integrity while improving quality control processes. The ability to perform inline inspection streamlines production workflows by integrating inspection directly into the SMT assembly line, reducing downtime and accelerating throughput.

Furthermore, the Online X-Ray Inspection Machine is engineered with user-centric features that facilitate ease of use and integration. The system's intuitive interface and automated functions minimize operator intervention, allowing for rapid setup and efficient inspection cycles. Advanced imaging software supports detailed analysis and reporting, empowering quality assurance teams to make informed decisions quickly. The combination of high performance, energy efficiency, and operational reliability makes this X-ray inspection solution a valuable asset for manufacturers seeking to maintain competitive advantage in the fast-evolving electronics market.

In summary, the Online X-Ray Inspection Machine represents a powerful and efficient X-ray inspection solution that addresses the critical need for precise, non-destructive inspection in electronics manufacturing and semiconductor industries. With its HAMAMATSU microfocus X-ray tube, wide operating temperature range, energy-efficient power consumption, and broad application capabilities, this inline SMT X-ray machine is perfectly suited to enhance product quality and production efficiency. Investing in this advanced X-ray inspection equipment ensures that manufacturers can confidently deliver defect-free products while optimizing their manufacturing processes.

Features:

- Product Name: Online X-Ray Inspection Machine
- Resolution: X-ray Tube Focal Spot Size of 5 µm
- Geometric Magnification: Up to 150X
- Application: Ideal for electronics manufacturing and semiconductor industries
- Non-destructive inspection of PCB assemblies including BGA and QFP
- Inspection capability for LED chips, batteries, FPC, electronic components, and connectors
- Dimensions: 1300 mm (L) * 1320 mm (W) * 1800 mm (H)
- Power Supply: 220V AC, 50/60 Hz
- Weight: Approximately 1250 Kg
- Advanced X-ray NDT equipment ensuring precise defect detection
- Equipped as a Microfocus X-ray inspection system for high-resolution imaging
- Efficient PCB X-ray machine designed for thorough quality control

Technical Parameters:

Inspection Type	X-ray Transmission Inspection (2D), Detector Tilttable 45° Left And Right (90° Total Viewing Angle)
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 (distance/angle/circle), And AI Defect Judgment (customizable Algorithms)
Power Supply	220V AC, 50/60 Hz
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.)

Data Output	Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
Resolution	X-ray Tube Focal Spot Size: 5 μ m; Geometric Magnification: 150X
Operating Temperature	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

Applications:

The WISDOMSHOW S-7200 Online X-Ray Inspection Machine is a cutting-edge microfocus X-ray inspection system designed to meet the rigorous demands of modern manufacturing and quality control environments. Originating from China and certified with CE, this advanced inline SMT X-ray machine offers exceptional precision and reliability, making it an ideal solution for a wide range of application occasions and scenarios.

Primarily used in the electronics manufacturing industry, the S-7200 excels in inline inspection of surface-mount technology (SMT) assemblies. Its high resolution, with an X-ray tube focal spot size of just 5 μ m and geometric magnification up to 150X, enables detailed examination of solder joints, component placement, and internal structures without damaging the product. This makes it indispensable for quality control on production lines where rapid, non-destructive testing is critical to ensure the integrity and functionality of electronic devices.

The self-developed software integrated into the S-7200 supports CNC automated inspection programming, navigation, and positioning, allowing seamless integration into existing manufacturing workflows. Its automatic void ratio calculation, dimension measurement (including distance, angle, and circle), and AI defect judgment with customizable algorithms provide comprehensive data output capabilities. This allows manufacturers to save images and measurement data effectively, facilitating traceability and process optimization.

Beyond electronics, the WISDOMSHOW S-7200 can be applied in various sectors requiring precise internal inspection, such as aerospace, automotive, medical devices, and materials research. Its capability to detect minute defects and measure critical dimensions inline makes it useful for real-time quality assurance and failure analysis in these high-stakes industries.

With a compact footprint of 1300 mm (L) * 1320 mm (W) * 1800 mm (H) and powered by a standard 220V AC supply, the machine is easy to install in diverse production environments. Packaging in standard export wooden cases ensures safe delivery, and the supply ability of approximately 50-100 units per month guarantees availability for large-scale production needs. Payment terms are flexible, including T/T and negotiable options, catering to various customer requirements.

In summary, the WISDOMSHOW S-7200 microfocus X-ray inspection system is a highly versatile inline SMT X-ray machine perfect for inline inspection scenarios demanding high resolution, automated data processing, and AI-driven defect evaluation. Its radiation safety license and exemption filing ensure compliance with regulatory standards, making it a trusted choice for manufacturers worldwide.



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