



S-7200 X-ray Inspection Machine Joystick Mouse Keyboard Combined Control Solution Integrating Automatic Void Ratio Calculation For And 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 Consumption: Max Power 2.0 KW
- Detectionobjects: 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
- Inspection Type: X-ray Transmission Inspection (2D), Detector Tilttable 45° Left And Right (90° Total Viewing Angle)
- Userinterface: 24" HD Monitor, Joystick + Mouse + Keyboard Combined Control
- Power Supply: 220V AC, 50/60 Hz
- Dataoutput: Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function

Product Description:

The Online X-Ray Inspection Machine is an advanced PCB X-ray machine designed to meet the stringent quality control requirements of modern electronics manufacturing. As an inline SMT X-ray machine, it seamlessly integrates into the production line, providing real-time, non-destructive inspection of solder joints and internal structures of printed circuit boards (PCBs). This SMT X-ray machine offers unparalleled precision and efficiency, ensuring that defects such as voids, misalignments, and soldering inconsistencies are detected early in the manufacturing process, thereby reducing rework and improving overall product reliability.

One of the standout features of this online X-ray inspection machine is its comprehensive data output capability. It supports image saving and measurement data storage functions, including critical parameters such as void ratio, dimensions, and other essential metrics. This functionality enables manufacturers to maintain detailed inspection records, perform trend analysis, and enhance quality control processes. The ability to save and analyze measurement data ensures that the inspection results are not only accurate but also traceable and actionable, supporting continuous improvement initiatives in SMT production lines.

The machine is powered by a stable 220V AC power supply operating at 50/60 Hz, ensuring consistent performance and compatibility with standard industrial power sources. Its robust construction is housed within dimensions of 1300 mm in length, 1320 mm in width, and 1800 mm in height, making it suitable for integration into various production environments without occupying excessive floor space. This compact footprint allows manufacturers to optimize their production layout while benefiting from advanced inspection capabilities.

Designed to operate reliably within a temperature range of 0°C to 40°C, this SMT X-ray machine is well-suited for typical factory conditions. This wide operating temperature range guarantees stable performance and accuracy, even in environments where temperature fluctuations might otherwise affect sensitive inspection equipment. The machine's durability and environmental adaptability make it a dependable choice for electronics manufacturers worldwide.

The user interface of the online X-ray inspection machine is thoughtfully designed for ease of use and operational efficiency. Featuring a 24-inch HD monitor, operators benefit from high-resolution, clear imaging that facilitates detailed inspection and analysis of PCBs. The combined control system, which includes a joystick, mouse, and keyboard, provides intuitive navigation and precise manipulation of the inspection parameters. This ergonomic design reduces operator fatigue and enhances productivity, allowing users to quickly identify defects and make informed decisions during the inspection process.

As a professional PCB X-ray machine, this inline SMT X-ray machine is indispensable for electronics manufacturers seeking to improve yield and ensure the highest quality standards. Its advanced imaging technology, coupled with comprehensive data management and a user-friendly interface, positions it as a critical tool in the SMT assembly process. By implementing this SMT X-ray machine, manufacturers can achieve greater process control, reduce costly defects, and deliver superior products to the market.

In summary, the Online X-Ray Inspection Machine combines precision, reliability, and user-centric design to provide a high-performance solution for SMT inspection needs. Its data output and storage capabilities, robust power supply requirements, compact dimensions, and adaptable operating temperature range make it an ideal choice for inline inspection in modern electronics production facilities. With its advanced user interface and comprehensive measurement functions, this PCB X-ray machine is a valuable asset for ensuring product quality and manufacturing excellence.

Features:

- Product Name: Online X-Ray Inspection Machine
- Inspection Type: X-ray Transmission Inspection (2D) with Detector Tilttable 45° Left and Right for a 90° Total Viewing Angle
- Tube Type: HAMAMATSU (Japan) Closed Microfocus X-ray Source
- Dimensions: 1300 mm (L) * 1320 mm (W) * 1800 mm (H)
- Weight: Approx. 1250 Kg
- Application: Designed for Electronics Manufacturing and Semiconductor Industries
- Non-destructive inspection of PCB Assembly including BGA and QFP
- Suitable for inspecting LED Chips, Batteries, FPC, Electronic Components, and Connectors
- Features an X-ray solder joint inspection system for precise defect detection
- Operates as an automatic X-ray machine enhancing inspection efficiency
- Advanced X-ray inspection equipment ensuring high reliability and accuracy

Technical Parameters:

Weight	Approx. 1250 Kg
Dimensions	1300 mm (L) * 1320 mm (W) * 1800 mm (H)
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)
Resolution	X-ray Tube Focal Spot Size: 5 µm; Geometric Magnification: 150X
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 Consumption	Max Power 2.0 KW
User Interface	24" HD Monitor, Joystick + Mouse + Keyboard Combined Control
Operating Temperature	0°C To 40°C
Power Supply	220V AC, 50/60 Hz

Applications:

The WISDOMSHOW S-7200 is an advanced automatic Industrial X-ray machine designed to meet the rigorous demands of modern manufacturing and quality control environments. Originating from China and certified with CE and Radiation Safety License (Yue Huan Fu Zheng [B0774]), this cutting-edge system is ideal for various application occasions that require precise, non-destructive testing and inspection. Its compact dimensions of 1300 mm (L) * 1320 mm (W) * 1800 mm (H) and operating temperature range of 0°C to 40°C make it suitable for factory floors and controlled laboratory settings alike.

This SMT X-ray machine is especially valuable in electronics manufacturing, where surface mount technology components require thorough inspection for defects such as voids, misalignments, and solder joint quality. The self-developed software with CNC automated inspection programming, navigation & positioning, and AI defect judgment enables efficient and highly accurate inspections.

Customizable algorithms allow manufacturers to tailor defect detection to specific product requirements, making the S-7200 the perfect choice for high-mix, low-volume production lines or large-scale manufacturing.

The 3D X-ray inspection system functionality supports comprehensive analysis through dimension measurement capabilities including distance, angle, and circle parameters. This makes it indispensable in industries such as aerospace, automotive, and medical device manufacturing, where precision and safety are paramount. The automatic void ratio calculation enhances quality assurance processes by providing quantitative data on internal material integrity.

With a high-resolution X-ray tube focal spot size of 5 μm and geometric magnification up to 150X, the S-7200 delivers exceptional image clarity, enabling the detection of even the smallest defects. The system's power consumption is optimized, with a maximum of 2.0 KW, ensuring energy efficiency during prolonged operation. Packaged securely in standard export wooden cases, the machine is well protected during international shipping.

Typical application scenarios include inline quality inspection in electronics manufacturing plants, failure analysis laboratories, research institutions, and component supplier quality control. The WISDOMSHOW S-7200 supports a supply ability of approximately 50-100 units per month, with flexible payment terms such as T/T and negotiable options, making it accessible for enterprises looking to enhance their quality inspection capabilities with a reliable, high-performance automatic Industrial X-ray machine.



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