S-7200 X-Ray Inspection Machine Power Supply 50 60 Hz Online Featuring Joystick Mouse Keyboard Combined Control Approx 1250 Kg Suitable for Control

Our Product Introduction

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

- Dataoutput: Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
- Power Supply: 220V AC, 50/60 Hz
- Application: Electronics Manufacturing And Semiconductor Industries: Non-destructive Inspection Of PCB Assembly (BGA, QFP), LED Chips, Batteries, FPC, Electronic Components And Connectors
- Tube Type: HAMAMATSU (Japan) Closed Microfocus X-ray Source
- Weight: Approx. 1250 Kg
- 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.)

Product Description

Product Description:

The Online X-Ray Inspection Machine is an advanced SMT X-ray machine designed specifically for the electronics manufacturing and semiconductor industries. This industrial X-ray machine offers a comprehensive, non-destructive inspection solution for a wide range of electronic components including PCB assemblies such as BGA and QFP, LED chips, batteries, flexible printed circuits (FPC), and various connectors. Its cutting-edge technology ensures high precision and reliability in detecting defects, making it an essential tool in quality control processes.

At the core of this X-ray solder joint inspection system is a self-developed software platform featuring CNC automated inspection programming. This software enables seamless navigation and precise positioning of the inspection targets, greatly enhancing inspection efficiency and accuracy. One of the standout features of the software is its ability to automatically calculate the void ratio, a critical parameter in assessing solder joint quality. Additionally, the system performs detailed dimension measurements, including distance, angle, and circle parameters, ensuring comprehensive analysis of each inspected component.

What sets this machine apart is its integration of AI-driven defect judgment algorithms. These customizable algorithms allow the system to intelligently identify and classify defects, significantly reducing false positives and improving overall inspection reliability. The AI capabilities can be tailored to meet specific inspection requirements, enabling manufacturers to adapt the system to various production lines and quality standards. This makes the Online X-Ray Inspection Machine not only versatile but also future-proof in an industry where precision and adaptability are paramount.

In terms of physical specifications, the machine is compact yet robust, with dimensions measuring 1300 mm in length, 1320 mm in width, and 1800 mm in height. This footprint allows it to fit comfortably into most production environments without requiring excessive space, while still housing all the necessary components for high-performance inspection. The machine is designed to operate efficiently within a temperature range of 0°C to 40°C, ensuring stable performance in typical manufacturing settings.

Power consumption is optimized to support continuous operation without excessive energy costs, with a maximum power usage of 2.0 KW. This balance of power efficiency and operational capability makes the machine suitable for integration into various production workflows, including high-volume manufacturing lines where uptime and cost control are critical.

Overall, the Online X-Ray Inspection Machine stands out as a sophisticated, reliable, and intelligent industrial X-ray machine tailored to the needs of modern electronics manufacturing. Its combination of advanced software, AI defect detection, and precise mechanical design provides manufacturers with a powerful tool to enhance quality assurance and improve product reliability. Whether inspecting solder joints on complex PCB assemblies or evaluating the integrity of delicate semiconductor components, this X-ray solder joint inspection system delivers unparalleled performance and accuracy.

For companies seeking to elevate their inspection capabilities, reduce defects, and maintain the highest standards in electronics production, the Online X-Ray Inspection Machine is an indispensable asset. Its innovative features and user-friendly design ensure that manufacturers can confidently identify potential issues early in the production process, leading to improved yield rates and reduced costs associated with rework and failures.

Features:

Product Name: Online X-Ray Inspection Machine

3D X-ray inspection system with advanced imaging capabilities

Automatic X-ray machine featuring real-time inspection and analysis

Data Output: Image saving and measurement data storage function including void ratio, dimensions, and more

Dimensions: 1300 mm (L) * 1320 mm (W) * 1800 mm (H)

Tube Type: HAMAMATSU (Japan) closed microfocus X-ray source for high precision imaging

Inspection Type: X-ray transmission inspection (2D) with a detector tiltable 45° left and right, providing a 90° total viewing angle

Software: Self-developed software featuring CNC automated inspection programming, navigation & positioning

Automatic void ratio calculation and dimension measurement including distance, angle, and circle

AI defect judgment with customizable algorithms for enhanced inspection accuracy

Real-time X-ray machine operation for efficient and immediate results

Technical Parameters:

Application	Electronics Manufacturing And Semiconductor Industries: Non-destructive Inspection Of PCB Assembly (BGA, QFP), LED Chips, Batteries, FPC, Electronic Components And Connectors
User Interface	24" HD Monitor, Joystick + Mouse + Keyboard Combined Control
Power Supply	220V AC, 50/60 Hz
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
Inspection Type	X-ray Transmission Inspection (2D), Detector Tiltable 45° Left And Right (90° Total Viewing Angle)

Data Output	Image Saving And Measurement Data (void Ratio, Dimensions, Etc.) Storage Function
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.)
Operating Temperature	0°C To 40°C
Tube Type	HAMAMATSU (Japan) Closed Microfocus X-ray Source

Applications:

The WISDOMSHOW S-7200 is an advanced automatic industrial X-ray machine designed specifically for high-precision inspection needs in the electronics manufacturing and semiconductor industries. Manufactured in China and certified with CE standards, this SMT X-ray machine offers a reliable X-ray inspection solution that ensures non-destructive testing of complex electronic assemblies. It is equipped with a HAMAMATSU (Japan) closed microfocus X-ray source, providing exceptional image clarity and accuracy for inspecting PCB assemblies such as BGA, QFP, LED chips, batteries, FPC, electronic components, and connectors.
In modern electronics manufacturing environments, quality control is paramount. The WISDOMSHOW S-7200 is ideal for use in production lines where automatic, fast, and precise inspection is required to detect hidden defects such as solder joint voids, misalignments, and internal structural issues. Its self-developed software integrates CNC automated inspection programming, navigation and positioning, automatic void ratio calculation, dimension measurement (including distance, angle, and circle), and AI defect judgment with customizable algorithms. This makes it a perfect fit for companies aiming to enhance product reliability while reducing manual inspection errors.
The machine operates efficiently within a temperature range of 0°C to 40°C, making it suitable for various factory environments. The user interface, featuring a 24" HD monitor combined with joystick, mouse, and keyboard controls, allows operators to easily navigate inspection programs and analyze results. Furthermore, the S-7200 complies with radiation safety standards, holding the Radiation Safety License (Yue Huan Fu Zheng [B0774]) and exemption filing for radioisotopes and radiation devices, ensuring safe operation on the production floor.
Packaging is handled with care through standard export wooden case packaging, ensuring the equipment arrives securely and intact. Payment terms are flexible with T/T and negotiable options, supporting seamless procurement processes. With a supply ability of approximately 50-100 units per month, WISDOMSHOW can meet the demands of growing manufacturing facilities seeking to implement an effective X-ray inspection solution.
Overall, the WISDOMSHOW S-7200 automatic industrial X-ray machine is perfectly suited for scenarios requiring high-throughput, accurate, and non-destructive inspection in electronics manufacturing and semiconductor assembly lines. It plays a critical role in ensuring product quality, reducing defects, and improving yield rates, making it an indispensable tool for SMT production environments worldwide.

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