



## X-RAY Inspection Machine 24 inch HD Monitor X-ray inspection system powered by 50 60 Hz power supply ideal for detecting internal product defects

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

- Weight: Approx. 1250 Kg
- Userinterface: 24" HD Monitor, Joystick + Mouse + Keyboard Combined Control
- 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.)
- Application: Electronics Manufacturing And Semiconductor Industries: Non-destructive Inspection Of PCB Assembly (BGA, QFP), LED Chips, Batteries, FPC, Electronic Components And Connectors
- Dimensions: 1300 Mm (L) × 1320 Mm (W) × 1800 Mm (H)
- Resolution: X-ray Tube Focal Spot Size: 5  $\mu$ m;  
Geometric Magnification: 150X

**Product Description:**

The Online X-Ray Inspection Machine is an advanced automatic industrial X-ray machine designed to meet the rigorous demands of modern electronics manufacturing and semiconductor industries. This cutting-edge X-ray inspection system offers precise and non-destructive inspection capabilities, enabling manufacturers to ensure the highest quality standards for their products. Engineered to detect internal defects such as voids, cracks, and broken wires, the machine is ideal for inspecting a wide range of detection objects including electronic components, semiconductors like BGA, IC, LED, FPC, connectors, and various types of batteries such as 18650 and pouch cell batteries.

One of the standout features of this automatic industrial X-ray machine is its X-ray transmission inspection technology, delivering high-resolution 2D images with exceptional clarity. The detector is uniquely tiltable 45° left and right, providing a total viewing angle of 90°, which significantly enhances the inspection capabilities by allowing multiple perspectives of the internal structures without repositioning the sample. This flexibility ensures thorough examination and accurate identification of potential defects that might otherwise go unnoticed.

The user interface of this X-ray inspection system is designed with operator convenience and efficiency in mind. Equipped with a 24-inch HD monitor, it offers crystal-clear visualization of X-ray images and measurement data, facilitating easy analysis and decision-making. The control setup combines a joystick, mouse, and keyboard, creating an intuitive and ergonomic operating environment that reduces fatigue and increases productivity during prolonged inspection sessions.

Another critical advantage of this automatic industrial X-ray machine is its robust data output and storage capabilities. It supports image saving along with comprehensive measurement data storage, including critical parameters such as void ratio, dimensions, and other relevant metrics. This functionality not only aids in quality control and traceability but also allows for detailed reporting and documentation that can be used for further analysis and process optimization.

Designed specifically for the electronics manufacturing and semiconductor industries, this X-ray inspection system excels in the non-destructive inspection of PCB assemblies like BGA and QFP, LED chips, batteries, flexible printed circuits (FPC), electronic components, and connectors. By providing reliable detection of internal flaws and structural anomalies, it helps manufacturers reduce scrap rates, improve product reliability, and maintain compliance with stringent industry standards.

In summary, the Online X-Ray Inspection Machine is an indispensable tool for any production line requiring precise and automated inspection solutions. Its combination of advanced X-ray transmission technology, versatile detector tilting, user-friendly interface, and comprehensive data management makes it a top choice for enhancing quality assurance processes. Whether inspecting delicate semiconductor devices or robust battery cells, this automatic industrial X-ray machine delivers consistent, high-quality results that support improved manufacturing efficiency and product excellence.

**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)
- Application: Electronics Manufacturing and Semiconductor Industries for Non-destructive Inspection of PCB Assembly (BGA, QFP), LED Chips, Batteries, FPC, Electronic Components and Connectors
- Power Supply: 220V AC, 50/60 Hz
- Operating Temperature: 0°C to 40°C
- User Interface: 24" HD Monitor with Joystick, Mouse, and Keyboard Combined Control
- Features a Microfocus X-ray inspection system for high precision analysis
- Designed as an inline SMT X-ray machine to integrate seamlessly into production lines
- Functions as inline SMT X-ray equipment to ensure quality control in electronics manufacturing

**Technical Parameters:**

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)
Power Consumption	Max Power 2.0 KW
Weight	Approx. 1250 Kg
User Interface	24" HD Monitor, Joystick + Mouse + Keyboard Combined Control
Operating Temperature	0°C To 40°C
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.)
Tube Type	HAMAMATSU (Japan) Closed Microfocus X-ray Source

Dimensions	1300 Mm (L) * 1320 Mm (W) * 1800 Mm (H)
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 cutting-edge piece of X-ray NDT equipment designed for diverse industrial applications requiring precise and reliable non-destructive testing. Originating from China and certified with CE, this advanced 3D X-ray inspection system is well-suited for use in manufacturing lines where quality control and defect detection are critical. With a robust HAMAMATSU (Japan) closed microfocus X-ray source, the machine ensures high-resolution imaging, making it ideal for inspecting intricate components and assemblies.

This online SMT X-ray machine is particularly valuable in electronics manufacturing, where surface-mount technology (SMT) components require thorough inspection to identify solder joint defects, misalignments, and internal structural anomalies. Its real-time inspection capability allows seamless integration into production lines, enhancing efficiency and reducing downtime. The compact dimensions (1300 mm L \* 1320 mm W \* 1800 mm H) and a moderate weight of approximately 1250 kg make it suitable for various factory environments without demanding excessive floor space.

Beyond electronics, the S-7200 excels in applications such as automotive parts inspection, aerospace component verification, and medical device quality assurance. Its high power consumption (max 2.0 KW) and reliable 220V AC power supply support continuous operation, making it well-equipped for high-volume manufacturing settings. The machine's packaging in a standard export wooden case ensures safe transport and delivery, supported by flexible payment terms including T/T and negotiable options.

With a supply capacity of approximately 50-100 units per month and a minimum order requirement backed by Radiation Safety License (Yue Huan Fu Zheng [B0774]) and exemption filing for radioisotopes and radiation devices, the WISDOMSHOW S-7200 is a dependable choice for industries prioritizing safety and compliance. This online X-ray inspection machine offers unparalleled inspection accuracy and operational efficiency, establishing itself as an indispensable tool for companies seeking superior quality assurance through advanced X-ray NDT equipment.



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