



Offline X-Ray Inspection Machine with 1536×1536 Pixel Resolution, 0.01mm Mounting Accuracy, and 20fps Frame Rate for Industrial Assurance

Our Product Introduction

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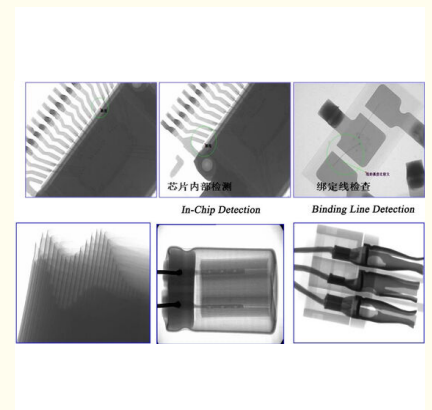
Basic Information

- Place of Origin: China, Shenzhen
- Brand Name: Wisdomshow
- Certification: CE FDA ISO
- Model Number: S7200
- Minimum Order Quantity: 1
- Packaging Details: Wooden case
- Delivery Time: 20 days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union



Product Specification

- Frame Rate: 1*1 20fps
- Component Recognition: Automatic
- Component Recognition: Automatic
- Detector Tilt: 45° Left/right
- Mounting Accuracy: 0.01mm
- Tube Style: Closed
- Tube Style: Closed
- Image Frame Rate: 20fps
- Focus Size: 5 Um
- User Interface: Touchscreen Control Panel
- User Interface: Touchscreen Control Panel



Product Description:

The Offline X-Ray Inspection Machine is a cutting-edge solution designed specifically for detailed and non-destructive analysis of electronic components and assemblies. Equipped with a micro-focus X-Ray tube as its source, this machine delivers exceptional imaging precision, making it an indispensable tool for modern electronics manufacturing and quality control processes. The micro-focus X-Ray tube ensures that even the smallest defects within complex assemblies can be detected with remarkable clarity, providing invaluable insights into the internal structure of electronic components.

This SMT X Ray Machine operates at a tube voltage of 90KV, which strikes an optimal balance between penetration power and image resolution. This voltage setting allows the machine to effectively penetrate various materials commonly found in electronic assemblies, such as printed circuit boards (PCBs), ball grid arrays (BGAs), and other surface-mounted devices, without compromising image quality. The high voltage capability ensures that even densely packed components can be examined thoroughly, revealing hidden solder joint failures, voids, misalignments, and other manufacturing defects.

One of the standout features of this BGA X Ray Inspection Machine is its detector tilt capability of 45° to the left and right. This unique feature allows for multi-angle imaging, which significantly enhances the ability to inspect complex geometries and hidden layers within electronic assemblies. By tilting the detector, operators can obtain comprehensive views of solder joints and internal structures from different perspectives, reducing the likelihood of overlooking critical defects. This multi-angle inspection capability is particularly beneficial for BGAs and other advanced packaging technologies where traditional top-down inspection methods fall short.

The Offline X-Ray Inspection Machine boasts a robust loading capacity of up to 10kg, accommodating a wide range of electronic assemblies from small PCBs to larger, more complex devices. This flexibility makes it suitable for various applications across the electronics manufacturing industry, including research and development, failure analysis, and quality assurance. The ability to handle heavier loads without sacrificing imaging performance ensures that the machine can support diverse inspection needs and workflows efficiently.

To complement its advanced hardware capabilities, this Electronics X Ray Machine offers an impressive image frame rate of 20fps. This high frame rate enables real-time imaging, allowing operators to quickly adjust positioning and focus on areas of interest without delay. Fast image acquisition improves overall inspection throughput and reduces downtime, making the machine ideal for both offline batch inspections and integration into production lines. The smooth and rapid imaging experience also aids in detailed analysis and documentation of defects, facilitating faster decision-making and process improvements.

In summary, the Offline X-Ray Inspection Machine is a highly versatile and powerful tool tailored for the demanding needs of electronic component inspection. Its micro-focus X-Ray source, combined with a 90KV tube voltage and a detector tilt range of 45° left and right, provides unparalleled imaging flexibility and precision. The machine's generous 10kg loading capacity and high-speed image frame rate of 20fps further enhance its usability and efficiency. Whether used as an SMT X Ray Machine, a specialized BGA X Ray Inspection Machine, or a general Electronics X Ray Machine, this product offers exceptional reliability and performance for ensuring the highest standards of quality in electronic manufacturing.

Applications:

The Wisdomshow S7200 Offline X-Ray Inspection Machine is an advanced and reliable solution designed for a variety of application occasions and scenarios in the electronics manufacturing and quality control industries. Originating from Shenzhen, China, this state-of-the-art BGA X Ray Inspection Machine is engineered to deliver precise inspection results while ensuring user safety with its radiation safety level of less than 1 μ SV/H. Its high tube voltage of 90KV guarantees detailed imaging, enabling thorough examination of complex electronic components.

This Electronics X Ray Machine is particularly well-suited for use in electronics manufacturing plants where the integrity of ball grid arrays (BGA) and other surface-mounted devices needs to be verified. The Wisdomshow S7200's automatic component recognition feature allows for efficient and accurate detection of defects such as solder joint issues, voids, or misalignments, making it indispensable for quality assurance teams focused on maintaining high production standards.

The machine's loading capacity of 10kg makes it versatile enough to accommodate a wide range of circuit boards and electronic assemblies, from small consumer electronics to larger industrial components. Its user-friendly touchscreen control panel simplifies operation, enabling technicians to quickly set inspection parameters, review images, and generate reports without extensive training. This ease of use is ideal for busy production lines where time efficiency is critical.

Furthermore, the Wisdomshow S7200 Offline BGA X Ray Inspection Machine is commonly utilized in research and development laboratories, repair centers, and educational institutions where detailed internal imaging is required without the need for direct online integration. Its offline capability provides flexibility in inspection scheduling and positioning, allowing for thorough analysis without disrupting the main production workflow.

In summary, the Wisdomshow S7200 Electronics X Ray Machine is perfectly suited for any scenario that demands high-resolution, safe, and automated X-ray inspection of electronic components. Whether in manufacturing, quality control, R&D, or repair, this machine ensures reliable detection of hidden defects, thereby enhancing product quality and reducing failure rates in the field.

Customization:

Wisdomshow offers customized solutions for the S7200 Offline X-Ray Inspection Machine, designed to meet the specific needs of various industrial applications. As a leading Industrial X Ray Machine, the S7200 features a high-quality Industrial X Ray Tube with a tube current range of 10-200uA, ensuring precise and reliable imaging performance. The machine supports a frame rate of 1*1 20fps, providing clear and efficient inspection results for complex components.

Originating from Shenzhen, China, the S7200 model is equipped with a closed tube style that enhances durability and safety during operation. With radiation safety levels maintained at less than 1 μ SV/H, this BGA X Ray Inspection Machine guarantees a secure working environment for operators. The user-friendly touchscreen control panel simplifies the inspection process, allowing for easy adjustments and control.

Wisdomshow's customization services allow clients to tailor the S7200 Offline X-Ray Inspection Machine to their specific industrial inspection requirements, ensuring optimal performance for BGA and other intricate electronic component inspections. Whether you need adjustments in tube current, frame rate, or interface preferences, Wisdomshow provides flexible solutions to enhance your inspection workflow.

Support and Services:

Our Offline X-Ray Inspection Machine is designed to provide high-precision, non-destructive testing for a variety of industrial applications. To ensure optimal performance and longevity of your equipment, we offer comprehensive technical support and services.

Technical support includes installation guidance, system calibration, software updates, and troubleshooting assistance. Our team of experts is available to help you maximize the capabilities of your X-Ray Inspection Machine and to resolve any operational issues promptly.

We also provide regular maintenance services to keep your machine running smoothly. This includes routine inspections, cleaning, component replacement, and performance optimization. Scheduled maintenance helps prevent unexpected downtime and extends the lifespan of your equipment.

Training sessions are available for operators and maintenance personnel to ensure proper use and care of the machine. These sessions cover system operation, safety protocols, and basic troubleshooting techniques.

In addition, we offer customization and upgrade options to adapt the machine to specific inspection requirements or to incorporate the latest technological advancements.

For warranty services, we provide repair and replacement of defective parts in accordance with our warranty policy, ensuring minimal disruption to your inspection processes.

Our goal is to deliver reliable support and services that enhance your inspection capabilities and ensure the highest standards of product quality and safety.

Packing and Shipping:

Product Packaging:

The Offline X-Ray Inspection Machine is carefully packaged to ensure safe delivery and optimal protection during transit. The machine is first wrapped with anti-static foam and protective film to prevent scratches and dust accumulation. It is then secured inside a sturdy, custom-designed wooden crate that provides structural support and shock absorption. Inside the crate, additional padding materials are used to immobilize the machine and safeguard sensitive components from vibrations and impacts. All packaging materials comply with international shipping standards and environmental regulations.

Shipping:

The Offline X-Ray Inspection Machine can be shipped via air freight or sea freight according to customer requirements. Prior to shipment, the machine undergoes thorough inspection and testing to ensure it is in perfect working condition. Shipping documentation, including packing lists, certificates of origin, and compliance certificates, are provided. The crate is clearly labeled with handling instructions and shipping details. Our logistics partners handle transportation with care, and tracking information is shared with customers for real-time monitoring of the shipment until delivery.

FAQ:

Q1: What is the brand and model number of the Offline X-Ray Inspection Machine?

A1: The Offline X-Ray Inspection Machine is branded Wisdomshow, and the model number is S7200.

Q2: Where is the Wisdomshow S7200 Offline X-Ray Inspection Machine manufactured?

A2: The Wisdomshow S7200 is manufactured in Shenzhen, China.

Q3: What are the primary applications of the Wisdomshow S7200 Offline X-Ray Inspection Machine?

A3: The Wisdomshow S7200 is typically used for detecting defects and foreign objects inside various products, ensuring quality control in manufacturing processes.

Q4: Does the Wisdomshow S7200 require an internet connection to operate?

A4: No, the Wisdomshow S7200 is an offline X-Ray inspection machine, so it operates independently without requiring an internet connection.

Q5: What kind of materials can the Wisdomshow S7200 inspect?

A5: The Wisdomshow S7200 can inspect a wide range of materials including food products, pharmaceuticals, electronics, and industrial components to detect internal defects or contaminants.



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