



S7200 Radiation Safety Less Than 1 Micro Sievert Per Hour Offline X-Ray Inspection Machine with Detector Tilt 45 Degrees Left Right and Micro-focus X-Ray Tube

Our Product Introduction

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Basic Information

- Place of Origin: China, Shenzhen
- Brand Name: Wisdomshow
- Model Number: S7200
- Minimum Order Quantity: 1
- Price: US \$40999-46880



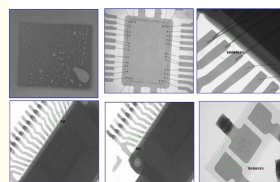
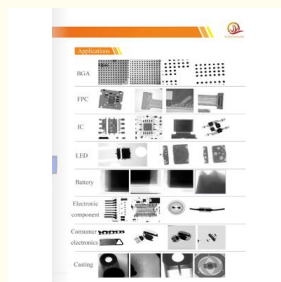
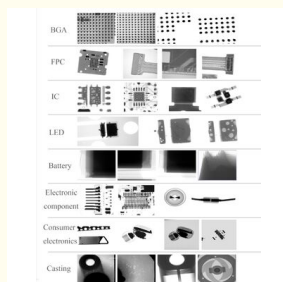
Product Specification

- Component Recognition: Automatic
- User Interface: Touchscreen Control Panel
- Mounting Accuracy: 0.01mm
- Image Frame Rate: 20fps
- X-Ray Source: Micro-focus X-Ray Tube
- Detector Tilt: 45° Left/right
- Detector Resolution: 1536×1536 Pixel
- Software: Image Processing Software
- Highlight: **Radiation Safety Less Than 1 Micro Sievert Per Hour Offline X-Ray Inspection Machine**



• **Detector Tilt 45 Degrees Left Right BGA X Ray Inspection Machine**
• **Micro-focus X-Ray Tube SMT X Ray Machine**

More Images



Product Description:

The Offline X-Ray Inspection Machine is a state-of-the-art device designed specifically for precise and efficient inspection of electronic components, making it an essential tool in modern manufacturing and quality control processes. This advanced machine is widely recognized as a reliable BGA X Ray Inspection Machine, ideal for detecting defects and ensuring the integrity of BGA (Ball Grid Array) components and other surface-mounted technology (SMT) assemblies. Its sophisticated features and cutting-edge technology make it a preferred choice for electronics manufacturers seeking high accuracy and fast inspection speeds.

At the core of this Offline X-Ray Inspection Machine lies a Micro-focus X-Ray Tube, which serves as the X-Ray source. This component is crucial for producing highly focused X-ray beams that penetrate the electronic assemblies to reveal hidden flaws such as solder joint defects, voids, misalignments, and bridging. The micro-focus capability ensures that the X-rays are concentrated into a very small spot, allowing for exceptional image resolution and detail. This precision is especially important when inspecting tiny components on densely packed circuit boards.

One of the standout features of this SMT X Ray Machine is its adjustable tube current, ranging from 10 to 200µA. This range allows operators to fine-tune the X-ray intensity based on the specific requirements of the inspection task, ensuring optimal image clarity without compromising the safety or integrity of the components being inspected. Whether dealing with delicate, thin boards or more robust assemblies, the flexibility in tube current settings guarantees consistent and reliable inspection results.

The detector tilt capability of this BGA X Ray Inspection Machine further enhances its inspection versatility. With a tilt angle of 45° to the left and right, the detector can capture images from multiple perspectives, revealing defects that might be hidden in standard top-down views. This multi-angle inspection capability is invaluable for comprehensive quality control, as it helps in identifying issues that could otherwise go unnoticed, such as solder joint voids beneath BGA balls or subtle misalignments in complex SMT assemblies.

Image capture speed is another critical aspect where this Offline X-Ray Inspection Machine excels. Featuring a frame rate of 20 frames per second (fps) in a 1*1 configuration, it offers rapid image acquisition without sacrificing resolution or clarity. This high frame rate enables real-time inspection and speedy analysis, significantly increasing throughput and productivity in manufacturing environments. Fast inspection cycles mean quicker feedback loops for production lines, reducing downtime and minimizing defective products.

Moreover, the machine boasts an impressive focus size of just 5 micrometers (µm), which is pivotal for achieving ultra-high resolution imaging. This fine focus size ensures that even the smallest defects and structural anomalies within BGA packages or SMT components are clearly visible. Such precision is essential for maintaining stringent quality standards and preventing failure in critical electronic applications.

In summary, the Offline X-Ray Inspection Machine is a powerful and versatile BGA X Ray Inspection Machine that combines a micro-focus X-Ray tube, adjustable tube current from 10 to 200µA, a 45° detector tilt, a swift 20fps frame rate, and an ultra-fine 5µm focus size. These features collectively provide unparalleled inspection accuracy and efficiency, making it an indispensable tool for manufacturers and quality control professionals working with SMT and BGA components. Whether you are aiming to detect solder joint defects, ensure assembly reliability, or improve production yield, this SMT X Ray Machine delivers exceptional performance and dependable results, solidifying its role as a cornerstone technology in electronic inspection.

Features:

- Product Name: Offline X-Ray Inspection Machine
- Tube Voltage: 90KV for precise imaging
- Tube Style: Closed type ensuring safety and durability
- Equipped with advanced Image Processing Software
- X-Ray Source: Micro-focus X-Ray Tube for high-resolution inspection
- Detector Tilt: 45° Left/right for versatile inspection angles
- Ideal Inspection Tools for detailed industrial analysis
- Incorporates Industrial X Ray Tube technology for enhanced performance

Technical Parameters:

| | |
|-----------------------|---------------------------|
| Frame Rate | 1*1 20fps |
| Tube Current | 10-200uA |
| Loading Capacity | 10kg |
| Tube Style | Closed |
| Component Recognition | Automatic |
| Detector Resolution | 1536×1536 Pixel |
| X-Ray Source | Micro-focus X-Ray Tube |
| Software | Image Processing Software |
| Tube Voltage | 90KV |
| Focus Size | 5 Um |

Applications:

The Wisdomshow S7200 Offline X-Ray Inspection Machine is an advanced industrial solution designed to meet the demanding needs of various inspection scenarios. Originating from Shenzhen, China, this model is equipped with a closed tube style Industrial X Ray Tube,

ensuring enhanced safety and durability during operation. With radiation safety levels maintained below 1 μ SV/H, the S7200 guarantees a secure working environment for operators, making it suitable for continuous use in diverse industrial settings.

This Electronics X Ray Machine is widely applied in quality control processes across multiple industries, including electronics manufacturing, automotive parts inspection, aerospace component analysis, and medical device verification. Its high image frame rate of 20fps, coupled with a frame rate of 1*1 20fps, allows for rapid and precise detection of internal defects, structural inconsistencies, and assembly errors. The advanced imaging capabilities make it ideal for detailed inspection of printed circuit boards (PCBs), solder joints, and complex electronic assemblies where accuracy is paramount.

The S7200's user-friendly touchscreen control panel enhances operational efficiency by providing intuitive navigation and real-time image manipulation. This feature is particularly beneficial in busy production lines where quick decision-making is essential. Furthermore, the closed tube Industrial X Ray Tube design minimizes maintenance needs and extends the machine's operational lifespan, making it a cost-effective choice for long-term industrial applications.

Typical application occasions for the Wisdomshow S7200 include offline inspection stations within manufacturing plants, research and development laboratories, and specialized quality assurance departments. It is also suitable for use in training facilities where detailed analysis of internal components without disassembly is required. The machine's portability and ease of setup facilitate its deployment in temporary inspection sites or field inspections, providing flexible solutions for diverse operational demands.

In summary, the Wisdomshow S7200 Offline X-Ray Inspection Machine offers a robust, safe, and efficient inspection solution. Its combination of a closed Industrial X Ray Tube, low radiation emission, high frame rate imaging, and touchscreen interface makes it an indispensable tool for industries that require meticulous internal examination of electronic and mechanical components. Whether for routine quality checks or complex diagnostic tasks, this Electronics X Ray Machine stands out as a reliable partner in ensuring product integrity and safety.

Customization:

Wisdomshow offers customized services for the Offline X-Ray Inspection Machine model S7200, designed and manufactured in Shenzhen, China. This advanced BGA X Ray Inspection Machine features a robust loading capacity of 10kg, making it suitable for a wide range of inspection tools and industrial applications. The user-friendly touchscreen control panel ensures seamless operation and precise control during inspections.

Equipped with an industrial X Ray tube capable of a tube current ranging from 10-200uA, the S7200 delivers high-quality imaging with an image frame rate of 20fps, providing clear and accurate results for thorough analysis. Additionally, the machine adheres to strict radiation safety standards, maintaining radiation levels below 1 μ SV/H to ensure a safe working environment.

Wisdomshow's customization services allow clients to tailor the Offline X-Ray Inspection Machine to their specific needs, optimizing performance for various inspection tools and enhancing the efficiency of quality control processes.

Support and Services:

Our Offline X-Ray Inspection Machine is designed to provide reliable and precise inspection solutions to ensure the highest quality standards in your production line. For technical support and services, we offer comprehensive assistance including installation guidance, routine maintenance, troubleshooting, and software updates to keep your machine operating at peak performance.

Our team of experienced technicians is available to help diagnose and resolve any technical issues you may encounter, ensuring minimal downtime. We also provide training sessions to help your operators understand the machine's functionalities and optimize inspection processes.

Preventive maintenance services are available to extend the lifespan of your equipment and prevent unexpected failures. Additionally, we offer calibration and validation services to ensure your inspection results remain accurate and compliant with industry standards.

For software-related support, we provide regular updates and enhancements to improve system capabilities and user experience.

Customization options are also available to tailor the inspection parameters and reporting features to your specific requirements.

Our commitment is to deliver prompt and effective support to maximize the value and reliability of your Offline X-Ray Inspection Machine throughout its lifecycle.

Packing and Shipping:

The Offline X-Ray Inspection Machine is carefully packaged to ensure maximum protection during transit. The machine is securely placed in a custom-designed foam insert within a sturdy, double-walled cardboard box to prevent any movement or damage.

Additional protective materials such as anti-static bags and moisture-absorbing packets are used to safeguard sensitive electronic components. The packaging is clearly labeled with handling instructions including "Fragile" and "This Side Up" to ensure proper care by shipping personnel.

For shipping, the product is typically transported via reliable courier services with tracking options available. Depending on the destination, the machine can be shipped via air freight or ground transportation to optimize delivery time and cost.

All shipments include comprehensive documentation such as user manuals, warranty information, and compliance certificates securely enclosed within the package.

Upon receipt, customers are advised to inspect the packaging for any signs of damage before unpacking and to report any issues immediately to ensure prompt resolution.

FAQ:

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

A1: The machine is branded Wisdomshow and the model number is S7200.

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

A2: It is manufactured in Shenzhen, China.

Q3: What applications is the Wisdomshow S7200 suitable for?

A3: The Wisdomshow S7200 is ideal for inspecting electronic components, printed circuit boards (PCBs), and other industrial parts for defects and quality control.

Q4: Does the Wisdomshow S7200 Offline X-Ray Inspection Machine support offline operation?

A4: Yes, the S7200 is designed for offline inspection, allowing users to conduct detailed X-ray analysis without the need for continuous network connectivity.

Q5: What are the key features of the Wisdomshow S7200 X-Ray Inspection Machine?

A5: Key features include high-resolution imaging, user-friendly interface, compact design, and advanced defect detection capabilities suitable for various manufacturing environments.



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