0-130KV Offline X-Ray Inspection Machine BGA X-Ray Inspection Machine with 39W Max Power and 5μm Focal Spot Size

Our Product Introduction

Basic Information

- Brand Name: Wisdomshow
- Model Number: S9200B



Product Specification

- Monitor: 27 Inch HD
- Max Power: 39W
- Current: 0-300μA
- Focal Spot Size: 5μm / 10μm /15μm (optional)
- X-ray Source: Closed Micro-focus, 0-130KV
- Detector: IRAY A-Si Flat Panel, 130mm×130mm
- Highlight: **0-130KV Offline X-Ray Inspection Machine**, **39W Max Power BGA X-Ray Inspection Machine** , **5μm Focal Spot Size Electronics X-Ray Machine**



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Product Description

Product Description:

The Offline X-Ray Inspection Machine is a state-of-the-art BGA X Ray Inspection Machine designed to meet the rigorous demands of modern electronics manufacturing and quality control. Equipped with advanced technology and precision components, this Electronics X Ray Machine offers unparalleled performance for inspecting complex electronic assemblies, including Ball Grid Arrays (BGA), printed circuit boards (PCBs), and other intricate electronic components. Its offline operation capability ensures flexibility and convenience, allowing users to perform detailed inspections without disrupting the production line.

At the core of this Electronics X Ray Machine is a closed micro-focus X-ray source, which operates within a voltage range of 0 to 130KV. This closed micro-focus design guarantees a stable and highly concentrated X-ray beam, essential for producing high-resolution images required for detecting minute defects. Users can select from three optional focal spot sizes — 5μm, 10μm, or 15μm — enabling tailored inspection precision depending on the application. Smaller focal spots yield finer image details, making it ideal for ultra-fine pitch components and densely packed circuit boards.

The machine's X-ray source current ranges from 0 to 300μA, providing adjustable intensity to optimize image contrast and clarity for various materials and component thicknesses. With a maximum power output of 39W, the Offline X-Ray Inspection Machine balances power efficiency with robust imaging capabilities, ensuring consistent performance during extended inspection sessions.

One of the standout features of this BGA X Ray Inspection Machine is its advanced detector system. It is equipped with an IRAY A-Si (Amorphous Silicon) Flat Panel detector measuring 130mm by 130mm. This high-quality detector captures high-resolution digital X-ray images with excellent sensitivity and low noise, facilitating accurate defect detection, such as solder joint voids, misalignments, and internal component damage. The flat panel design allows for a wide field of view, improving inspection speed and coverage without compromising image quality.

Designed specifically for electronics inspection, this Electronics X Ray Machine supports non-destructive testing methodologies, preserving the integrity of the components while providing comprehensive internal analysis. Its offline configuration allows operators to conduct inspections in a dedicated environment, reducing contamination risks and enhancing operational safety. The machine is ideal for diverse applications including failure analysis, quality assurance, research and development, and process optimization in electronics manufacturing.

With its combination of a closed micro-focus X-ray source, flexible focal spot options, adjustable current, and a top-tier flat panel detector, the Offline X-Ray Inspection Machine stands out as an essential tool in the electronics industry. It empowers manufacturers and quality control professionals to detect hidden defects, ensure product reliability, and maintain high standards of production excellence. Whether used in small-scale labs or large manufacturing facilities, this BGA X Ray Inspection Machine delivers precise, reliable, and efficient inspection results, making it a vital asset in the field of non-destructive electronics testing.

Features:

Product Name: Offline X-Ray Inspection Machine

Monitor: 27 Inch HD display for clear and detailed imaging

Max Power Consumption: 39W, energy-efficient operation

Detector: IRAY A-Si Flat Panel with dimensions 130mm * 130mm for high-resolution detection

X-ray Source: Closed Micro-focus with adjustable voltage from 0 to 130KV

Focal Spot Size Options: 5μm, 10μm, and 15μm available to suit different inspection needs

Ideal for use as a BGA X Ray Inspection Machine to accurately inspect Ball Grid Arrays

Designed as an Industrial X Ray Machine suitable for various industrial inspection applications

Highly effective Electronics X Ray Machine for inspecting electronic components and assemblies

Technical Parameters:

Current	0-300μA
X-ray Source	Closed Micro-focus, 0-130KV
Focal Spot Size	5μm / 10μm / 15μm (optional)
Max Power	39W
Monitor	27 Inch HD
Detector	IRAY A-Si Flat Panel, 130mm*130mm

Applications:

The Wisdomshow S9200B Offline X-Ray Inspection Machine is a cutting-edge solution designed for a variety of industrial and electronic inspection applications. Equipped with a closed micro-focus X-ray source capable of operating from 0 to 130KV and a maximum power of 39W, this Industrial X Ray Machine delivers high-resolution imaging essential for detailed internal inspections. Its IRAY A-Si flat panel detector, measuring 130mm by 130mm, ensures precise capture of X-ray images, making it an indispensable tool in quality control and failure analysis.

The versatility of the Wisdomshow S9200B makes it ideal for use in multiple scenarios. In electronics manufacturing, the Electronics X Ray Machine is crucial for inspecting printed circuit boards (PCBs), solder joints, and semiconductor components without damaging the products. This non-destructive testing capability helps identify defects such as voids, cracks, and misalignments early in the production process, thereby enhancing product reliability and reducing costly recalls.

In addition to electronics, the Industrial X Ray Tube integrated into the S9200B model supports applications in automotive, aerospace, and precision engineering industries. It facilitates the examination of complex assemblies, welds, and castings, providing insights into

structural integrity and material consistency. The optional focal spot sizes of 5μm, 10μm, and 15μm offer flexibility in balancing resolution and penetration depth, allowing operators to tailor inspections according to specific requirements.
The offline nature of the Wisdomshow S9200B machine makes it particularly useful in laboratory and quality assurance environments where portability and ease of setup are essential. Its compact design and low power consumption of 39W enable efficient operation without the need for extensive infrastructure. This makes it a preferred choice for manufacturers seeking reliable, high-performance inspection tools that can be deployed quickly across different production lines or testing facilities.
Overall, the Wisdomshow S9200B Offline X-Ray Inspection Machine stands out as a powerful and adaptable Industrial X Ray Machine and Electronics X Ray Machine, offering superior imaging capabilities through its advanced Industrial X Ray Tube technology. It supports a broad range of application occasions and scenarios, from precise electronics inspection to rigorous industrial quality control, ensuring that manufacturers maintain the highest standards of product excellence and safety.

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