



High Resolution Online X-Ray Inspection Machine with Real-time Image Processing and Defect Detection

Basic Information

- Place of Origin: China, Shenzhen
- Brand Name: WisdomshowWi
- Model Number: AXI-7600



Product Specification

- Software Features: Real-time Image Processing, Defect Detection, Data Logging
- Machine Dimensions: Varies, Typically Around 2000mm X 800mm X 1500mm
- Conveyor Speed: Adjustable, Typically Up To 60 M/min
- Weight: Approximately 500-800 Kg
- Tube Type: Closed
- Resolution: High Resolution, Up To 0.1 Mm
- Material Compatibility: Suitable For Various Packaging Materials Including Plastic, Glass, Metal, And Cardboard
- Safety Features: Lead Shielding, Interlock System, Radiation Protection Compliance
- Highlight: **High Resolution X-Ray Inspection System,**

Product Description:

The Online X-Ray Inspection Machine is an advanced industrial X-ray machine designed to provide precise and reliable inspection solutions across various manufacturing and packaging industries. With a power consumption typically ranging between 1 to 3 KW, this high-performance device ensures energy efficiency without compromising on the quality of inspection. The machine is engineered to operate within a tube voltage range of 90KV to 130KV, enabling it to penetrate different materials and deliver clear, high-resolution images for accurate analysis. One of the standout features of this online SMT X-ray machine is its exceptional compatibility with a wide variety of packaging materials. Whether it is plastic, glass, metal, or cardboard, the X-ray inspection system is capable of handling these diverse substrates seamlessly. This adaptability makes it an indispensable tool for industries that require stringent quality control across multiple packaging types, ensuring that every product meets the highest standards before reaching the customer. Equipped with cutting-edge software, the X-ray inspection system offers real-time image processing capabilities that allow operators to visualize internal structures instantly. This enables immediate identification of any anomalies or defects within the product. The software's defect detection functionality is sophisticated, capable of pinpointing metal contaminants, foreign objects, and issues related to product integrity with remarkable accuracy. This ensures that defective or contaminated products are identified and removed from the production line, thereby enhancing overall product safety and quality. Another crucial advantage of this industrial X-ray machine is its data logging feature. This functionality records inspection results systematically, allowing for detailed traceability and quality tracking over time. Such data management is vital for compliance with industry regulations and helps manufacturers maintain comprehensive records for audits and continuous improvement initiatives. The online SMT X-ray machine is particularly well-suited for use in surface-mount technology (SMT) production lines, where it aids in inspecting solder joints, component placement, and other critical parameters without interrupting the manufacturing process. By integrating seamlessly into existing production workflows, the machine enhances efficiency and reduces downtime, delivering a streamlined inspection process that supports high-volume manufacturing environments. In summary, the Online X-Ray Inspection Machine is a versatile, energy-efficient, and highly accurate X-ray inspection system that meets the stringent demands of modern industrial applications. Its ability to work with multiple packaging materials, combined with powerful software features such as real-time image processing, defect detection, and data logging, makes it a valuable asset for ensuring product quality and safety. Whether detecting metal contaminants, foreign objects, or verifying product integrity, this industrial X-ray machine stands out as a reliable solution for manufacturers seeking to enhance their quality control processes.

Features:

- Product Name: Online X-Ray Inspection Machine
- User Interface: Touchscreen Control Panel With Graphical User Interface for easy and intuitive operation
- Material Compatibility: Suitable For Various Packaging Materials Including Plastic, Glass, Metal, And Cardboard
- Application: Non-destructive Testing And Quality Control, ideal for inline SMT X-ray equipment use
- Technology: Advanced 3D X-ray inspection system providing detailed internal imaging
- Safety Features: Equipped with Lead Shielding, Interlock System, and full Radiation Protection Compliance to ensure operator safety
- Operating Voltage: Supports 220V/110V, 50/60Hz for versatile installation environments
- Category: High-performance X-ray NDT equipment suitable for a wide range of industrial inspection needs

Technical Parameters:

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|------------------------|---|
| Product Name | Online X-Ray Inspection Machine |
| Machine Dimensions | Varies, Typically Around 2000mm X 800mm X 1500mm |
| User Interface | Touchscreen Control Panel With Graphical User Interface |
| Inspection Type | X-Ray |
| Material Compatibility | Suitable For Various Packaging Materials Including Plastic, Glass, Metal, And Cardboard |
| Application | Non-destructive Testing And Quality Control |
| Tube Type | Closed |
| Detection Objects | Metal Contaminants, Foreign Objects, Product Integrity |
| Tube Voltage | 90KV-130KV |
| Microfocus Size | 5-15 μm / 5 μm |

Applications:

The WisdomshowWi AXI-7600, a state-of-the-art 3D X-ray inspection system, is designed to meet the demanding requirements of non-destructive testing and quality control across various industries. Originating from Shenzhen, China, this advanced industrial X-ray machine offers unparalleled precision and reliability, making it an essential tool for manufacturers and quality assurance professionals. One of the primary application occasions for the WisdomshowWi AXI-7600 is in the electronics manufacturing sector. Here, the microfocus X-ray inspection system excels in detecting minute defects within intricate circuit boards, solder joints, and semiconductor components without causing any damage. Its closed tube type, with a tube voltage range of 90KV to 130KV, ensures high-resolution imaging capable of revealing hidden faults that traditional inspection methods might miss.

In the automotive and aerospace industries, the AXI-7600 is widely used for rigorous quality control of critical components such as engine parts, turbine blades, and safety devices. The machine's capability to perform real-time image processing and defect detection allows for immediate identification of internal flaws, cracks, or voids, thereby enhancing product safety and reliability. Its robust build, weighing approximately 500-800 Kg, provides stable operation even in demanding industrial environments.

The AXI-7600 also finds extensive use in the medical device manufacturing field, where precision and safety are paramount. This microfocus X-ray inspection system enables manufacturers to inspect implants, surgical instruments, and diagnostic equipment thoroughly, ensuring compliance with stringent industry standards. The integrated data logging software feature supports comprehensive record-keeping, facilitating traceability and quality audits.

Additionally, the WisdomshowWi industrial X-ray machine is suitable for research and development laboratories, where detailed internal analysis of prototypes and materials is crucial. The system's versatility and advanced imaging capabilities allow engineers and researchers to explore new designs and materials without compromising the integrity of the samples.

Overall, the WisdomshowWi AXI-7600 combines cutting-edge technology with practical functionality, making it a vital asset for any facility requiring precise, non-destructive inspection. Whether in electronics, automotive, aerospace, medical device manufacturing, or research, this 3D X-ray inspection system ensures superior quality control and defect detection, enhancing product safety and performance across diverse application scenarios.

Customization:

WisdomshowWi offers comprehensive product customization services for the AXI-7600 Online X-Ray Inspection Machine, designed to meet diverse industrial needs. As a leading X-ray NDT equipment provider based in Shenzhen, China, we specialize in tailoring our Microfocus X-ray inspection system to your specific requirements.

The AXI-7600 model features a microfocus size ranging from 5-15 μm or as precise as 5 μm , ensuring exceptional detection capabilities. Our online SMT X-ray machine can be customized to detect a variety of objects, including metal contaminants, foreign objects, and to verify product integrity, enhancing quality control processes.

Power consumption customization is available within the typical range of 1-3 KW, suitable for various operational demands. The system supports flexible operating voltage options of 220V or 110V with 50/60Hz frequency to accommodate different regional power standards. Safety is paramount in our design, and the AXI-7600 can be equipped with advanced safety features such as lead shielding, an interlock system, and full compliance with radiation protection standards. These enhancements ensure safe operation while maintaining high performance.

Partner with WisdomshowWi to customize your online SMT X-ray machine and leverage our expertise in X-ray NDT equipment for a Microfocus X-ray inspection system tailored to your unique production requirements.

Support and Services:

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

Technical Support includes assistance with installation, calibration, and operation of the inspection system. Our team of experts is available to help troubleshoot any issues, provide software updates, and optimize machine settings to meet your specific inspection requirements.

We also provide regular maintenance services to keep your X-Ray Inspection Machine functioning at peak efficiency. This includes routine inspections, cleaning, and replacement of critical components to prevent unexpected downtime.

Training programs are available for your operators and maintenance personnel to ensure they are fully equipped to use and maintain the equipment safely and effectively.

In addition, we offer customization and integration services to tailor the inspection system to your production line, enhancing productivity and inspection accuracy.

Our commitment is to provide reliable, timely, and professional support to maximize the value and performance of your Online X-Ray Inspection Machine.

Packing and Shipping:

Our Online X-Ray Inspection Machine is carefully packaged to ensure it arrives at your facility in perfect condition. The machine is securely enclosed in a custom-designed wooden crate with foam padding to absorb shocks during transit. All delicate components are individually wrapped and protected to prevent any damage.

For shipping, we collaborate with trusted logistics partners who specialize in handling sensitive industrial equipment. The packaging is clearly labeled with handling instructions and orientation markers to facilitate safe transport. We offer various shipping options including air freight, sea freight, and express courier services to meet your delivery requirements.

Upon delivery, our team provides guidance for unloading and setup to ensure a smooth installation process. We also include all necessary documentation, including user manuals, warranty information, and compliance certificates, within the packaging for your convenience.

FAQ:

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

A1: The Online X-Ray Inspection Machine is branded WisdomshowWi, and the model number is AXI-7600.

Q2: Where is the WisdomshowWi AXI-7600 manufactured?

A2: The WisdomshowWi AXI-7600 is made in Shenzhen, China.

Q3: What are the key features of the AXI-7600 Online X-Ray Inspection Machine?

A3: The AXI-7600 offers high-resolution X-ray imaging for detailed inspection, real-time online monitoring, and automated defect detection to ensure product quality.

Q4: Can the AXI-7600 be integrated into existing production lines?

A4: Yes, the WisdomshowWi AXI-7600 is designed for easy integration into various production lines to enhance quality control processes.

Q5: What types of products can the AXI-7600 inspect?

A5: The AXI-7600 can inspect a wide range of products including electronics, automotive components, and packaged goods for internal defects and assembly errors.



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