



Shenzhen Wisdomshow Technology Co.,Ltd

bgaxraymachine.com

Offline X-Ray Counter Machine with AI Deep Learning Algorithm for 01005 Components and Radiation Leakage Dose < 1 μ Sv/h

Our Product Introduction

for more products please visit us on bgaxraymachine.com

Basic Information

- Brand Name: Wisdomshow
- Model Number: DS3000



Product Specification

- Radiation Safety: Radiation Leakage Dose < 1 μ Sv/h; Steel-lead-steel Housing; Lead-lead-steel Front Door; Safety Interlock (automatic Power Cut When Door Opened); Exemption Filing Obtained
- Printing Capability: Supports Real-time Printing Of Material Codes And Counting Result Labels (including 1D/2D Barcodes)
- Control Type: Industrial PC (IPC) Control, Windows 10 64-bit Enterprise Edition, Operated Via Mouse/keyboard
- Tube Voltage: 80 KV
- Component Size: Smallest Compatible Component: 01005
- Tray Diameter: Compatible With 7
- Data Storage: Automatically Saves Counting Results,



More Images



Product Description:

The Offline X-Ray Counter Machine is an advanced and reliable solution designed for precise and efficient counting of PCB reels. Engineered with cutting-edge AI-powered technology, this X-ray reel counting equipment offers unparalleled accuracy and safety, making it an indispensable tool for modern electronics manufacturing environments. The machine excels in providing detailed and rapid counts of components on PCB reels, including the smallest compatible component size down to 01005, ensuring even the tiniest parts are accurately accounted for.

One of the standout features of this Offline X-Ray Counter Machine is its commitment to radiation safety. It boasts a radiation leakage dose of less than 1 μSv/h, well within stringent safety standards, ensuring minimal exposure to operators and the surrounding environment. This is achieved through its robust steel-lead-steel housing, which effectively contains and shields against X-ray emissions. Additionally, the machine is equipped with a leaded glass front door that provides clear visibility into the inspection chamber while maintaining radiation containment. For enhanced safety, it incorporates a safety interlock system that automatically cuts power to the X-ray source whenever the door is opened, preventing accidental exposure. The product has also obtained exemption filing, reflecting its compliance with relevant safety regulations and standards.

Control and user interaction with the machine are streamlined through an Industrial PC (IPC) control system running Windows 10 64-bit Enterprise Edition. This reliable and user-friendly interface allows operators to manage the machine effortlessly via a mouse and keyboard. The 24-inch user interface screen delivers sharp, clear visuals and intuitive navigation, enabling quick setup, monitoring, and adjustment of counting parameters. This combination of industrial-grade computing power and ergonomic design ensures that users can operate the machine efficiently, minimizing downtime and maximizing throughput.

The Offline X-Ray Counter Machine is specifically tailored to handle PCB reel X-ray counting tasks with exceptional precision. Its powerful X-ray tube operates at 80 KV, providing optimal penetration and imaging quality for various component sizes and densities on the reels. This high tube voltage, combined with sophisticated AI algorithms, enables the machine to distinguish and count different components accurately, even in complex reel arrangements. The AI-powered X-ray reel counter adapts to varying component types and layouts, reducing errors and enhancing productivity in component inventory management.

Designed to integrate seamlessly into manufacturing workflows, the Offline X-Ray Counter Machine supports a wide range of PCB reels, accommodating different sizes and component densities without compromising speed or accuracy. Its capability to count the smallest compatible component, 01005, highlights its precision and suitability for cutting-edge electronics assembly processes where miniaturization is critical.

In summary, the Offline X-Ray Counter Machine is a state-of-the-art X-ray reel counting equipment that combines rigorous radiation safety measures with sophisticated AI-powered counting technology and user-centric controls. It is an ideal solution for electronics manufacturers seeking to enhance their component inventory accuracy and safety while maintaining efficient production cycles. Whether for small-scale operations or large manufacturing lines, this PCB reel X-ray counter delivers dependable performance, safety, and ease of use, making it a valuable asset in modern electronic component management.

Features:

- Product Name: Offline X-Ray Counter Machine
- Control Type: Industrial PC (IPC) Control with Windows 10 64-bit Enterprise Edition, operated via mouse and keyboard
- Printing Capability: Supports real-time printing of material codes and counting result labels, including 1D and 2D barcodes
- Data Storage: Automatically saves counting results, images, and SPC statistics; supports report export; daily counting records automatically generated with traceability
- Tube Voltage: 80 KV for effective X-ray penetration
- Accuracy Improvement: Utilizes AI deep learning algorithm to automatically improve recognition accuracy with more use, achieving current counting accuracy ≥ 99.99%
- Key Features: Functions as an X-ray non-destructive counting machine, a high-speed X-ray reel counter, and an X-ray SMD component counter

Technical Parameters:

Component Size	Smallest Compatible Component: 01005
Accuracy Improvement	AI Deep Learning Algorithm, Automatically Improves Recognition Accuracy With More Use; Current Counting Accuracy ≥ 99.99%
Radiation Safety	Radiation Leakage Dose < 1 μSv/h; Steel-lead-steel Housing; Leaded Glass Front Door; Safety Interlock (automatic Power Cut When Door Opened); Exemption Filing Obtained
Tray Diameter	Compatible With 7"
Power	Power Supply: 220 V / 50 Hz; Total Power: 800 W
Printing Capability	Supports Real-time Printing Of Material Codes And Counting Result Labels (including 1D/2D Barcodes)
Component Size Support	Supports 01005 And Larger SMD Components (resistors, Capacitors, Inductors, Crystal Oscillators, LEDs, Diodes, Transistors, Multi-pin ICs, Etc.)
Material Detection	Taped SMD Components (7-17")

Data Storage	Automatically Saves Counting Results, Images, And SPC Statistics; Supports Report Export; Daily Counting Records Automatically Generated With Traceability
Tube Voltage	80 KV

Applications:

The Wisdomshow DS3000 Offline X-Ray Counter Machine is an advanced solution designed to meet the rigorous demands of modern electronic component counting and inspection. This X-ray electronic component counter is ideal for a variety of application occasions and scenarios where precision, efficiency, and reliability are paramount. Its industrial PC (IPC) control system, running on Windows 10 64-bit Enterprise Edition, offers a user-friendly interface operated via mouse and keyboard, making it accessible for operators in diverse environments.

One prominent application scenario for the DS3000 is in electronics manufacturing plants where accurate counting of small components is critical. The machine excels as an X-ray SMD inventory checker, accurately verifying surface-mount device (SMD) quantities without the need for manual handling. This capability significantly reduces errors and enhances production efficiency in high-volume assembly lines. The 24-inch user interface provides clear visibility and control, facilitating seamless operation and data management.

In addition, the DS3000 functions effectively as a reliable PCB reel X-ray counter, capable of handling reels with compatible tray diameters of 7 inches. This makes it particularly useful in quality control departments and warehouses where electronic components are stored and distributed. The machine's power supply of 220 V / 50 Hz with a total power consumption of 800 W ensures stable and consistent performance in industrial settings.

Data storage and traceability are crucial in electronics production, and the DS3000 meets these needs by automatically saving counting results, X-ray images, and SPC (Statistical Process Control) statistics. The system supports report export functionality and generates daily counting records with traceability, enabling detailed tracking and quality assurance. This makes it highly suitable for environments that prioritize compliance and documentation, such as research laboratories and certification centers.

Overall, the Wisdomshow DS3000 Offline X-Ray Counter Machine is an indispensable tool for electronics manufacturers, inventory managers, and quality control professionals. Its versatile applications as an X-ray electronic component counter, X-ray SMD inventory checker, and PCB reel X-ray counter make it a comprehensive solution for improving accuracy, efficiency, and traceability in various industrial scenarios.

Support and Services:

Our Offline X-Ray Counter Machine is designed to provide accurate and efficient counting solutions for various applications. To ensure optimal performance, please follow the guidelines below for technical support and services.

Installation and Setup: Before using the machine, carefully read the user manual to understand the installation process. Place the machine on a stable surface and connect it to the appropriate power source. Ensure all components are securely connected.

Operation: Power on the machine and calibrate it according to the instructions provided. Use the control panel to set counting parameters suitable for your specific requirements. Regularly check for any error messages or alerts displayed on the screen.

Maintenance: Keep the machine clean and free from dust and debris. Use a soft, dry cloth to wipe the exterior and avoid using harsh chemicals. Periodically inspect the X-ray sensor and counting mechanism for any signs of wear or damage.

Troubleshooting: If the machine encounters issues such as inaccurate counts, failure to power on, or error codes, refer to the troubleshooting section in the user manual. Restart the machine and verify all connections. If problems persist, seek professional technical support.

Software Updates: Check for firmware or software updates regularly to ensure your machine operates with the latest features and improvements. Updates can enhance accuracy and add new functionalities.

Warranty and Repairs: The Offline X-Ray Counter Machine comes with a limited warranty covering manufacturing defects. For repairs, only authorized service centers should be used to maintain product integrity and safety.

For additional support, please refer to the detailed user manual included with your product or visit our official website for resources and FAQs.

Packing and Shipping:

Product Packaging:

The Offline X-Ray Counter Machine is carefully packaged to ensure maximum protection during transit. Each unit is securely placed in a custom-fitted foam insert inside a sturdy corrugated cardboard box. The packaging includes anti-static materials to prevent any damage from electrostatic discharge. Additionally, all accessories and user manuals are neatly packed within the box to avoid any loss or damage.

Shipping:

The Offline X-Ray Counter Machine is shipped via reliable courier services with tracking options available. We ensure that all shipments are handled with care and delivered within the estimated time frame. For international orders, customs documentation is prepared in advance to facilitate smooth clearance. Customers will receive a confirmation email with the tracking number once the product has been dispatched.

FAQ:

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

A1: The Offline X-Ray Counter Machine is manufactured by Wisdomshow, and the model number is DS3000.

Q2: How does the Wisdomshow DS3000 Offline X-Ray Counter Machine operate without an internet connection?

A2: The DS3000 operates fully offline by processing and counting X-ray images locally on the device, eliminating the need for internet connectivity.

Q3: What are the main applications of the DS3000 Offline X-Ray Counter Machine?

A3: The DS3000 is primarily used in medical and security fields to accurately count and analyze X-ray images for diagnostic or screening purposes.

Q4: Is the Wisdomshow DS3000 compatible with various X-ray image formats?

A4: Yes, the DS3000 supports multiple X-ray image formats, ensuring compatibility with a wide range of X-ray equipment.

Q5: What are the key features of the Offline X-Ray Counter Machine by Wisdomshow?

A5: Key features include offline operation, high accuracy counting, user-friendly interface, compatibility with multiple image formats, and robust build quality.



Shenzhen Wisdomshow Technology Co.,Ltd



+86 18926538696



elysia.li@wdsbga.cn



bgaxraymachine.com

No.6,Haosi Western Industry,Shangjing Town,Bao'an District,Shenzhen,China