



Offline X-Ray Counter Machine with 01005 Component Size 80 KV Tube Voltage and 99.99% Counting Accuracy for SMD Components

Our Product Introduction

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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 Glass Front Door; Safety Interlock (automatic Power Cut When Door Opened); Exemption Filing Obtained
- Component Size: Smallest Compatible Component: 01005
- Counting Speed: Single Tray Or Four 7
- Tube Voltage: 80 KV
- Tray Diameter: Compatible With 7
- Power: Power Supply: 220 V / 50 Hz; Total Power: 800 W
- Component Size Support: Supports 01005 And Larger SMD Components (resistors, Capacitors, Inductors, Crystal Oscillators, LEDs, Diodes, Transistors, Multi-pin ICs, Etc.)



More Images



Product Description:

The Offline X-Ray Counter Machine is a cutting-edge solution designed to revolutionize the way PCB reel counting and component inventory management are conducted. As an advanced X-ray non-destructive counting machine, this device leverages state-of-the-art technology to deliver unparalleled accuracy, efficiency, and reliability, making it an indispensable tool in modern electronics manufacturing and quality control processes.

One of the standout features of this machine is its robust data storage capability. It automatically saves every counting result, X-ray image, and Statistical Process Control (SPC) statistic, ensuring that all relevant information is securely archived for future reference. The system supports seamless report export functionality, allowing users to generate comprehensive reports with ease. Additionally, daily counting records are automatically generated and include full traceability, which is crucial for maintaining high standards of quality assurance and compliance in production environments. This level of detailed data management makes the Offline X-Ray Counter Machine a powerful component of any X-ray component inventory system.

Equipped with a tube voltage of 80 KV, the machine provides optimal X-ray penetration and imaging quality, enabling precise detection and counting of components on PCB reels. This voltage setting strikes an ideal balance between image clarity and operational safety, ensuring that even the most delicate and densely packed components are accurately identified without damage.

The counting speed of the machine is highly versatile, accommodating both single tray operations and up to four trays simultaneously. This multi-tray counting capability significantly enhances throughput and operational efficiency, allowing manufacturers to process large volumes of PCB reels in less time. Whether you are handling a small batch or a high-volume production run, the Offline X-Ray Counter Machine adapts seamlessly to your workflow demands.

To further streamline operations, the machine supports real-time printing of material codes and counting result labels, including both 1D and 2D barcodes. This feature facilitates immediate labeling and inventory management, reducing manual errors and speeding up the logistics and tracking processes. By integrating this printing capability, the machine ensures that all counted components are clearly identified and traceable throughout the supply chain.

Accuracy is paramount in component counting, and this machine excels in this area thanks to its AI deep learning algorithm. The system continuously improves its recognition accuracy with increased use, learning from each counting session to minimize errors and enhance precision. Currently, the counting accuracy stands at an impressive $\geq 99.99\%$, setting a new industry benchmark. This high level of accuracy reduces the risk of inventory discrepancies and helps maintain optimal stock levels, essential for efficient manufacturing operations.

In summary, the Offline X-Ray Counter Machine is a highly reliable and intelligent X-ray component inventory system specifically designed for PCB reel X-ray counter applications. Its automatic data storage and traceability features, optimal tube voltage, flexible counting speeds, real-time label printing, and AI-driven accuracy improvements make it a superior choice for manufacturers seeking to enhance their component counting processes. By integrating this X-ray non-destructive counting machine into your production line, you can achieve faster, more accurate inventory management and improve overall operational efficiency.

Features:

- Product Name: Offline X-Ray Counter Machine
- Power Supply: 220 V / 50 Hz
- Total Power: 800 W
- Accuracy Improvement: AI Deep Learning Algorithm that automatically improves recognition accuracy with more use
- Current Counting Accuracy: $\geq 99.99\%$
- Tray Diameter: Compatible with 7-inch trays
- Material Detection: Taped SMD Components (7-17 mm)
- Tube Voltage: 80 KV
- Features an Automatic X-ray component counter for efficient counting
- Functions as a Smart X-ray reel counter for precise reel management
- Reliable X-ray part counting machine designed for accuracy and speed

Technical Parameters:

Power Supply	220 V / 50 Hz
Total Power	800 W
Smallest Compatible Component Size	01005
Tube Voltage	80 KV
Counting Speed	Single Tray or Four 7-inch trays
Data Storage	Automatically saves counting results, images, and SPC statistics; supports report export; daily counting records automatically generated with traceability
Accuracy Improvement	AI deep learning algorithm, automatically improves recognition accuracy with more use; current counting accuracy $\geq 99.99\%$
Printing Capability	Supports real-time printing of material codes and counting result labels (including 1D/2D barcodes)

Tray Diameter	Compatible with 7-inch trays
Component Size Support	Supports 01005 and larger SMD components (resistors, capacitors, inductors, crystal oscillators, LEDs, diodes, transistors, multi-pin ICs, etc.)
User Interface	24-inch touchscreen

Applications:

The Wisdomshow DS3000 Offline X-Ray Counter Machine is an advanced Smart X-ray reel counter designed to meet the diverse needs of modern electronics manufacturing and inventory management. This high-precision device is perfect for accurately counting a wide range of electronic components, including the smallest compatible components as tiny as 01005 size. It supports various SMD components such as resistors, capacitors, inductors, crystal oscillators, LEDs, diodes, transistors, and multi-pin ICs, making it an indispensable tool for quality control and inventory processes in electronics production.

In manufacturing plants, the DS3000 serves as an essential X-ray inventory counter, enabling operators to quickly and accurately count components on reels without the need for manual handling or stopping production lines. Its Industrial PC (IPC) control system running Windows 10 64-bit Enterprise Edition ensures a user-friendly interface operated via mouse and keyboard, facilitating seamless integration into existing workflows. The machine's compact design and ability to handle minute components make it ideal for environments where precision and efficiency are paramount.

Warehouses and logistics centers benefit greatly from the DS3000's capability as an X-ray electronic component counter. It helps maintain accurate inventory records by automatically saving counting results, images, and SPC (Statistical Process Control) statistics. Daily counting records are generated with full traceability, and comprehensive reports can be exported effortlessly to support inventory audits and supply chain management. This functionality reduces errors, prevents stock discrepancies, and improves overall operational transparency.

Additionally, the Wisdomshow DS3000 is perfectly suited for research and development laboratories where detailed component analysis and inventory tracking are necessary. Its power supply of 220 V / 50 Hz and total power consumption of 800 W ensure stable operation even in demanding industrial settings. The combination of advanced X-ray imaging technology and intelligent software makes this Smart X-ray reel counter a reliable and efficient solution for a variety of application occasions and scenarios, including production line monitoring, inventory management, quality assurance, and component verification.

Support and Services:

Our Offline X-Ray Counter Machine is designed to provide accurate and efficient counting of X-ray images and related materials. For technical support, please ensure the machine is set up according to the user manual, with all connections secure and power supplied correctly.

In case of any operational issues, start by checking the display panel for error messages and consult the troubleshooting section of the manual. Regular maintenance, including cleaning the sensors and checking for software updates, is recommended to keep the machine functioning optimally.

If the machine fails to power on or counts inaccurately, verify the calibration settings and perform a recalibration if necessary. Avoid exposing the machine to extreme temperatures or humidity, as this can affect performance.

For software-related support, ensure that the firmware is up to date. Backup any important data before performing updates or resets. We offer comprehensive maintenance services and repair options to extend the lifespan of your Offline X-Ray Counter Machine. Our trained technicians can assist with installation, training, and on-site repairs.

For detailed service plans and warranty information, please refer to the product documentation provided at the time of purchase.

Packing and Shipping:

Product Packaging: The Offline X-Ray Counter Machine is securely packaged in a sturdy, custom-designed cardboard box with ample foam padding to protect the device from shocks and impacts during transportation. The packaging includes the main unit, power adapter, user manual, and necessary cables, all neatly organized to prevent movement inside the box. The exterior of the box is labeled with handling instructions and product information for easy identification.

Shipping: The Offline X-Ray Counter Machine is shipped via reliable courier services that offer tracking and insurance options to ensure safe delivery. Prior to shipping, each unit undergoes a thorough quality check and is securely sealed. For international shipments, all necessary customs documentation and certifications are included. Delivery times may vary depending on the destination, with options for expedited shipping available upon request.

FAQ:

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

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

Q2: Can the DS3000 X-Ray Counter Machine operate without an internet connection?

A2: Yes, the DS3000 is designed to function offline, allowing you to count X-ray images without the need for an internet connection.

Q3: What types of X-ray images can the Wisdomshow DS3000 count?

A3: The DS3000 is compatible with various standard X-ray image formats and is capable of accurately counting different types of X-ray films and digital images.

Q4: How easy is it to operate the Wisdomshow DS3000 Offline X-Ray Counter Machine?

A4: The DS3000 features a user-friendly interface with simple controls, making it easy for operators to use with minimal training.

Q5: What power supply does the DS3000 require?

A5: The Wisdomshow DS3000 operates on a standard AC power supply, suitable for most industrial and medical environments.



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