



Offline X-Ray Counter Machine with 99.99% Accuracy and Radiation Leakage Dose < 1 μ Sv/h Featuring Safety Interlock Automatic Power Cut

Our Product Introduction

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Basic Information

- Brand Name: Wisdomshow
- Model Number: DS3000



Product Specification

- Counting Speed: Single Tray Or Four 7" Reels: 6-8 Seconds
- User Interface: 24" HDMI LCD Monitor + Mouse/keyboard Operation
- Tube Voltage: 80 KV
- Accuracy Improvement: AI Deep Learning Algorithm, Automatically Improves Recognition Accuracy With More Use; Current Counting Accuracy \geq 99.99%
- Power: Power Supply: 220 V / 50 Hz; Total Power: 800 W
- Radiation Safety: Radiation Leakage Dose < 1 μ Sv/h; Steel-lead-steel Housing; Leaded Glass Front Door; Safety Interlock (automatic Power Cut When Door Opened); Exemption Filing Obtained
- Printing Capability: Supports Real-time Printing Of Material



More Images



Product Description:

The Offline X-Ray Counter Machine is an advanced and reliable solution designed specifically for precise and efficient counting of electronic components. This state-of-the-art device is widely recognized as a leading X-ray SMD component counter, offering unparalleled accuracy and safety features that make it ideal for a variety of industrial and manufacturing environments. Engineered with cutting-edge technology, the machine is also referred to as an X-ray part counting machine or X-ray electronic parts counter, reflecting its versatile applications in the electronics sector.

One of the most critical aspects of the Offline X-Ray Counter Machine is its exceptional radiation safety design. The machine ensures radiation leakage dose is kept below 1 µSv/h, significantly minimizing any potential health risks associated with prolonged exposure. This remarkable safety standard is achieved through a robust steel-lead-steel housing that effectively contains X-ray emissions. Additionally, the device is equipped with a leaded glass front door that not only provides a clear view of the counting process but also adds an extra layer of protection against radiation. For enhanced operational safety, the machine includes a safety interlock feature that automatically cuts off power whenever the door is opened, ensuring that the X-ray source is never active during access. Importantly, the machine has obtained exemption filing, which underscores its compliance with stringent safety regulations and makes it a trustworthy choice for any facility handling sensitive electronic parts.

In terms of technical specifications, the Offline X-Ray Counter Machine operates at a tube voltage of 80 KV. This voltage level is optimized to provide high-resolution imaging necessary for accurately identifying and counting even the smallest components. The machine is capable of handling components as tiny as 01005 size, demonstrating its precision and suitability for modern electronic manufacturing where micro-sized parts are increasingly common.

The machine's compatibility with reel sizes is another standout feature. It supports trays with diameters ranging from 7 inches to 17 inches, accommodating the standard 15-inch reels and offering an upgrade option to 17 inches. This flexibility ensures that the machine can handle a wide array of electronic components, including smaller bulk materials, making it highly adaptable to different production lines and inventory requirements. Whether managing small-scale batches or large reel counts, the Offline X-Ray Counter Machine delivers consistent and reliable results.

Data management and traceability are integral to the Offline X-Ray Counter Machine's design. It automatically saves counting results, images, and Statistical Process Control (SPC) statistics, facilitating comprehensive quality control and process optimization. The system supports report export, allowing users to generate detailed documentation for audits, quality assurance, and inventory management. Daily counting records are automatically generated with full traceability, ensuring that every count is logged and accessible for review. This feature is invaluable for maintaining transparency and accountability in component handling and production workflows.

In summary, the Offline X-Ray Counter Machine stands out as a highly efficient, safe, and precise X-ray SMD component counter. Its advanced radiation safety features, ability to accurately count components as small as 01005, versatile reel compatibility, and robust data storage capabilities make it an indispensable tool in the electronics manufacturing industry. Whether referred to as an X-ray part counting machine or an X-ray electronic parts counter, this machine delivers exceptional performance, ensuring that electronic component counting is both accurate and safe, while supporting stringent quality control standards.

Features:

Product Name: Offline X-Ray Counter Machine

Power Supply: 220 V / 50 Hz; Total Power: 800 W

Data Storage: Automatically saves counting results, images, and SPC statistics

Supports report export and daily counting records with traceability

Component Size Support: Supports 01005 and larger SMD components including resistors, capacitors, inductors, crystal oscillators, LEDs, diodes, transistors, multi-pin ICs, etc.

Smallest Compatible Component Size: 01005

Radiation Safety Features:

Radiation leakage dose less than 1 µSv/h

Steel-lead-steel housing

Leaded glass front door

Safety interlock with automatic power cut when door opened

Exemption filing obtained

Ideal as an X-ray part counting machine, X-ray batch reel counter, and X-ray electronic component counter

Technical Parameters:

Counting Speed	Single Tray Or Four 7" Reels: 6-8 Seconds
Power	Power Supply: 220 V / 50 Hz; Total Power: 800 W
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
Component Size	Smallest Compatible Component: 01005

Component Size Support	Supports 01005 And Larger SMD Components (resistors, Capacitors, Inductors, Crystal Oscillators, LEDs, Diodes, Transistors, Multi-pin ICs, Etc.)
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
Material Detection	Taped SMD Components (7-17" Reels), JEDEC Trays, Loose/bulk Components; Not Applicable For Overlapping Or Non-flat-layered Materials (e.g., Metal Springs)
Tray Diameter	Compatible With 7" To 17" Reels (standard 15", Upgradable To 17"), Minimum 7", Includes Smaller Bulk Materials

Applications:

The Wisdomshow DS3000 Offline X-Ray Counter Machine is an advanced solution designed for various industrial and manufacturing environments where precise component counting is critical. Its intelligent X-ray counting system leverages AI deep learning algorithms, which means the device automatically improves recognition accuracy with continued use, achieving a current counting accuracy of $\geq 99.99\%$. This makes it an indispensable tool for electronics manufacturers, quality assurance departments, and component distributors who require reliable, high-precision counting.

This X-ray batch reel counter is ideal for scenarios involving the handling and counting of a wide range of SMD components, including resistors, capacitors, inductors, crystal oscillators, LEDs, diodes, transistors, and multi-pin ICs. It supports component sizes from 01005 and larger, accommodating taped components on reels (7" to 17" diameter), JEDEC trays, and even loose or bulk components. This versatility ensures its application in various production lines, from small-scale workshops to large factories dealing with different packaging formats and component types.

Safety is paramount with the Wisdomshow DS3000. Its steel-lead-steel housing, leaded glass front door, and safety interlock system guarantee radiation leakage dose remains below $1 \mu\text{Sv/h}$, ensuring operator safety at all times. The device automatically cuts power when the door is opened, further enhancing workplace safety. Moreover, the machine's exemption filing from regulatory authorities assures compliance and peace of mind in any operational setting.

In practical terms, this X-ray component counter is perfectly suited for electronics assembly plants conducting batch verifications, inventory management, and quality control checks. It efficiently counts components on reels ranging from the minimum 7" size to standard 15" and upgradable to 17" reels, supporting a broad spectrum of production and inventory handling scenarios. Additionally, it is highly useful in component distribution centers where counting accuracy directly impacts shipping and order fulfillment.

However, the DS3000 is not applicable for overlapping or non-flat-layered materials such as metal springs, which makes it specialized for flat-layered, taped, or tray-based components. This specificity ensures maximum accuracy and reliability in its intended use cases without compromise.

Overall, the Wisdomshow DS3000 X-ray batch reel counter offers a perfect blend of advanced technology, safety, and versatility, making it an essential tool for any organization relying on accurate component counting. Its intelligent X-ray counting system streamlines workflows, reduces human error, and enhances productivity across multiple industries and applications.



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