



## DS3000 Offline X-Ray Counter Machine with 01005 Component Support AI Deep Learning Algorithm and Radiation Leakage Dose < 1 $\mu$ Sv/h

Our Product Introduction

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### Basic Information

- Brand Name: Wisdomshow
- Model Number: DS3000



### Product Specification

- Accuracy Improvement: AI Deep Learning Algorithm, Automatically Improves Recognition Accuracy With More Use; Current Counting Accuracy  $\geq 99.99\%$
- User Interface: 24" HDMI LCD Monitor + Mouse/keyboard Operation
- Power: Power Supply: 220 V / 50 Hz; Total Power: 800 W
- Data Storage: Automatically Saves Counting Results, Images, And SPC Statistics; Supports Report Export; Daily Counting Records Automatically Generated With Traceability
- Radiation Safety: Radiation Leakage Dose < 1  $\mu$ Sv/h; Steel-lead-steel Housing; Lead-glass Front Door; Safety Interlock (automatic Power Cut When Door Opened); Exemption Filing Obtained



### More Images



**Product Description:**

The Offline X-Ray Counter Machine is a cutting-edge X-ray non-destructive counting machine designed to deliver exceptional accuracy and safety for electronic component counting applications. Engineered with advanced technology and user-centric features, this X-ray parts counter for reels is ideal for counting taped SMD components, JEDEC trays, and loose or bulk components with unparalleled precision. It is especially suited for counting components on reels ranging from 7 inches to 17 inches in diameter, making it a versatile solution for a variety of manufacturing and quality control environments.

One of the standout features of this X-ray tape and reel counter is its commitment to radiation safety. The machine is constructed with a robust steel-lead-steel housing that effectively shields users from radiation exposure. The front door is equipped with leaded glass, providing visibility while maintaining a strong protective barrier. Additionally, the safety interlock system automatically cuts power if the door is opened during operation, ensuring maximum protection for operators. The machine's radiation leakage dose is impressively low, at less than 1 µSv/h, which complies with strict safety standards. Furthermore, exemption filing has been obtained, underscoring the device's compliance with regulatory requirements and its suitability for safe use in various working environments.

Material detection capabilities are another critical strength of this X-ray non-destructive counting machine. It accurately counts taped SMD components on reels ranging from 7 to 17 inches in diameter, with a standard 15-inch reel compatibility and an option to upgrade to 17 inches. The machine also supports counting components on JEDEC trays and can handle loose or bulk components. However, it is important to note that this X-ray parts counter for reels is not applicable for overlapping or non-flat-layered materials, such as metal springs, which may interfere with accurate counting. This specificity ensures that the system delivers reliable performance in its intended applications.

The user experience is significantly enhanced by the intuitive interface of the Offline X-Ray Counter Machine. It features a large 24-inch HDMI LCD monitor that provides clear, high-resolution images and data display. Operation is facilitated through a user-friendly mouse and keyboard setup, allowing for straightforward navigation and control. This thoughtful design minimizes training time and increases productivity by making the counting process smooth and efficient. Operators can easily configure settings, monitor counts, and analyze results without unnecessary complexity.

Accuracy is a paramount consideration in component counting, and this X-ray tape and reel counter excels in this area thanks to its AI deep learning algorithm. This innovative technology continuously improves recognition accuracy as the machine is used, adapting to various component types and conditions. The current counting accuracy is an impressive ≥ 99.99%, ensuring that users can trust the results for inventory management, quality control, and production processes. This high level of precision reduces errors and helps maintain optimal manufacturing workflows.

In summary, the Offline X-Ray Counter Machine is a reliable, safe, and highly accurate X-ray non-destructive counting machine designed to meet the demanding needs of modern electronics manufacturing. Its advanced radiation safety features, versatile material detection capabilities, user-friendly interface, and AI-enhanced accuracy make it an indispensable tool for counting taped SMD components, JEDEC trays, and loose parts on reels. Whether you require a standard 15-inch reel compatibility or an upgrade to 17 inches, this X-ray parts counter for reels provides flexible solutions that optimize efficiency and safety in your counting operations.

**Features:**

Product Name: Offline X-Ray Counter Machine

Material Detection: Taped SMD Components (7-17" Reels), JEDEC Trays, Loose/bulk Components

Note: Not Applicable For Overlapping Or Non-flat-layered Materials (e.g., Metal Springs)

Component Size Support: Supports 01005 And Larger SMD Components including resistors, capacitors, inductors, crystal oscillators, LEDs, diodes, transistors, multi-pin ICs, etc.

Accuracy Improvement: Utilizes AI Deep Learning Algorithm that automatically improves recognition accuracy with more use

Current Counting Accuracy: ≥ 99.99%

Tube Voltage: 80 KV

Smallest Compatible Component Size: 01005

Ideal for use as an X-ray SMD reel counter, X-ray automated reel counter, and X-ray tape reel counter

**Technical Parameters:**

Tube Voltage	80 KV
Control Type	Industrial PC (IPC) Control, Windows 10 64-bit Enterprise Edition, Operated Via Mouse/keyboard
Component Size Support	Supports 01005 And Larger SMD Components (resistors, Capacitors, Inductors, Crystal Oscillators, LEDs, Diodes, Transistors, Multi-pin ICs, Etc.)
Counting Speed	Single Tray Or Four 7" Reels: 6-8 Seconds
Power	Power Supply: 220 V / 50 Hz; Total Power: 800 W
Data Storage	Automatically Saves Counting Results, Images, And SPC Statistics; Supports Report Export; Daily Counting Records Automatically Generated With Traceability
Component Size	Smallest Compatible Component: 01005
Accuracy Improvement	AI Deep Learning Algorithm, Automatically Improves Recognition Accuracy With More Use; Current Counting Accuracy ≥ 99.99%

User Interface	24" HDMI LCD Monitor + Mouse/keyboard Operation
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

## Applications:

The Wisdomshow DS3000 Offline X-Ray Counter Machine is an advanced solution designed for a variety of industrial and manufacturing environments where precision and efficiency are paramount. This high-speed X-ray reel counter is ideal for electronics manufacturers, component distributors, and quality control laboratories that require accurate inventory management of small electronic components. With its capability to support 01005 and larger SMD components such as resistors, capacitors, inductors, crystal oscillators, LEDs, diodes, transistors, and multi-pin ICs, the DS3000 proves invaluable in handling diverse component types seamlessly.

One of the primary application occasions for the DS3000 is in electronics production lines where rapid, accurate counting of components is necessary to maintain workflow efficiency and reduce human errors. The machine's AI deep learning algorithm continuously improves recognition accuracy, ensuring a current counting accuracy of  $\geq 99.99\%$ . This feature makes the Wisdomshow DS3000 an essential tool in high-volume manufacturing settings where inventory precision directly impacts production quality and cost control.

Another key scenario for the DS3000 is warehouse and inventory management. As an X-ray inventory counter, it automates the verification process of component reels, enabling quick and reliable stocktaking without the need to manually count or open packaging.

The machine's data storage capabilities allow it to automatically save counting results, images, and SPC statistics, supporting report export and daily counting records with full traceability. This is particularly useful for logistics centers and component suppliers aiming to maintain accurate inventory records and streamline audit processes.

The DS3000's user-friendly interface, featuring a 24" HDMI LCD monitor combined with mouse and keyboard operation, makes it accessible for operators with varying levels of technical expertise. It is also suitable for use in research and development departments where detailed component analysis and inventory tracking are required. Thanks to its power supply of 220 V / 50 Hz and total power consumption of 800 W, the system is energy efficient and reliable for continuous operation in demanding environments.

In summary, the Wisdomshow DS3000 Offline X-Ray Counter Machine excels as a high-speed X-ray reel counter and X-ray component inventory system in electronics manufacturing, warehouse management, quality assurance, and R&D labs. Its advanced AI-driven accuracy, comprehensive data management, and support for a wide range of component sizes make it a versatile and indispensable tool for modern electronic component inventory control.



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