



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

Our Product Introduction

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### Basic Information

- Brand Name: Wisdomshow
- Model Number: DS3000



### Product Specification

- Tube Voltage: 80 KV
- Printing Capability: Supports Real-time Printing Of Material Codes And Counting Result Labels (including 1D/2D Barcodes)
- 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  $\geq 99.99\%$
- Component Size: Smallest Compatible Component: 01005
- Power: Power Supply: 220 V / 50 Hz; Total Power: 800 W
- Radiation Safety: Radiation Leakage Dose  $< 1 \mu\text{Sv/h}$ ; Steel-



### More Images



**Product Description:**

The Offline X-Ray Counter Machine is an advanced and highly reliable solution designed for precise and efficient counting of a wide range of electronic components. This state-of-the-art device is particularly suited for handling taped SMD components presented on reels ranging from 7 to 17 inches, JEDEC trays, as well as loose or bulk components. As an intelligent X-ray counting system, it leverages cutting-edge X-ray technology to deliver unparalleled accuracy, making it an indispensable tool for manufacturers and quality control professionals in the electronics industry.

One of the standout features of this X-ray automated reel counter is its ability to detect and count extremely small components, with compatibility down to the smallest size of 01005. This capability ensures that even the tiniest parts can be accurately monitored and accounted for, minimizing errors and improving inventory management. However, it is important to note that the system is not suitable for overlapping or non-flat-layered materials such as metal springs, which may interfere with the X-ray detection process.

The machine operates under a robust Industrial PC (IPC) control system running Windows 10 64-bit Enterprise Edition, providing a familiar and stable software environment. Users interact with the system via a mouse and keyboard, facilitating ease of use and quick adaptation. This control setup allows for seamless operation, precise adjustments, and efficient workflow management, making it a user-friendly solution suitable for both small-scale operations and large production environments.

Equipped with an 80 KV tube voltage, the Offline X-Ray Counter Machine generates clear and high-resolution X-ray images that enable accurate component identification and counting. The combination of high tube voltage and advanced imaging technology ensures that the machine can penetrate various packaging materials to reveal the underlying components without damaging them.

Data management is another critical aspect of this intelligent X-ray counting system. The machine automatically saves counting results, images, and Statistical Process Control (SPC) statistics, providing comprehensive documentation for quality assurance and traceability.

Daily counting records are generated automatically, allowing users to maintain detailed logs of component counts over time. Additionally, the system supports report export functionality, making it easy to share data with other departments or integrate with existing enterprise resource planning (ERP) systems.

This PCB reel X-ray counter is designed to streamline inventory control, reduce manual counting errors, and enhance production efficiency. By automating the counting process, it significantly reduces labor costs and human error, ensuring that component quantities are accurately recorded and tracked throughout the manufacturing lifecycle. Its versatility in handling various component packaging types further adds to its value as a comprehensive counting solution.

In summary, the Offline X-Ray Counter Machine offers a powerful combination of precision, ease of use, and data management capabilities. Its advanced material detection suited for taped SMD components, JEDEC trays, and loose components, coupled with IPC control and Windows 10 operation, make it a highly efficient and reliable tool. The high tube voltage and intelligent counting system ensure accurate and fast counting, while the embedded data storage and reporting functions support traceability and quality control. Ideal for electronics manufacturers seeking to optimize inventory management, this X-ray automated reel counter and PCB reel X-ray counter represents a significant advancement in component counting technology.

**Features:**

- Product Name: Offline X-Ray Counter Machine
- Component Size: Supports smallest compatible component size down to 01005
- User Interface: 24" HDMI LCD Monitor with Mouse and Keyboard Operation for easy control
- Power: Operates on 220 V / 50 Hz power supply with a total power consumption of 800 W
- Printing Capability: Supports real-time printing of material codes and counting result labels, including 1D and 2D barcodes
- Radiation Safety:
  - Radiation leakage dose less than 1 µSv/h
  - Steel-lead-steel housing for enhanced protection
  - Leaded glass front door for safe viewing
  - Safety interlock feature with automatic power cut when the door is opened
  - Exemption filing obtained for regulatory compliance
- Ideal for use as an X-ray SMT reel counter, X-ray electronic parts counter, and SMT component X-ray counter

**Technical Parameters:**

Data Storage	Automatically Saves Counting Results, Images, And SPC Statistics; Supports Report Export; Daily Counting Records Automatically Generated With Traceability
User Interface	24" HDMI LCD Monitor + Mouse/keyboard Operation
Control Type	Industrial PC (IPC) Control, Windows 10 64-bit Enterprise Edition, Operated Via Mouse/keyboard
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 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" Reels), JEDEC Trays, Loose/bulk Components; Not Applicable For Overlapping Or Non-flat-layered Materials (e.g., Metal Springs)
Component Size	Smallest Compatible Component: 01005

Counting Speed	Single Tray Or Four 7" Reels: 6-8 Seconds
Printing Capability	Supports Real-time Printing Of Material Codes And Counting Result Labels (including 1D/2D Barcodes)
Tray Diameter	Compatible With 7" To 17" Reels (standard 15", Upgradable To 17"), Minimum 7", Includes Smaller Bulk Materials

### Applications:

The Wisdomshow DS3000 is an advanced Intelligent X-ray counting system designed to revolutionize inventory management in electronics manufacturing and assembly environments. Originating from China, this cutting-edge SMT X-ray counting machine boasts an 80 KV tube voltage, ensuring precise and reliable detection of various components. Its AI Deep Learning Algorithm continuously enhances recognition accuracy with use, achieving a current counting accuracy of  $\geq 99.99\%$ , making it an indispensable tool for quality control and inventory verification.

This X-ray inventory counter is ideal for a wide range of application occasions and scenarios within the electronics industry. It is perfectly suited for counting taped SMD components on reels ranging from 7 to 17 inches, JEDEC trays, and loose or bulk components.

Manufacturers and suppliers can utilize the DS3000 to quickly and accurately verify component quantities during receiving inspections, production line feeding, and shipment preparation, significantly reducing manual counting errors and saving valuable time.

In SMT production environments, the Wisdomshow DS3000 facilitates seamless inventory management by integrating a user-friendly 24" HDMI LCD monitor with mouse and keyboard operation, allowing operators to interact efficiently with the system. This interface supports real-time printing of material codes and counting result labels, including 1D and 2D barcodes, streamlining traceability and documentation processes. This feature is particularly useful in busy factory floors where quick labeling and identification are crucial for smooth workflow and avoiding component mix-ups.

While the DS3000 excels at counting a variety of components, it is important to note that it is not applicable for overlapping or non-flat-layered materials such as metal springs. However, for flat-layered components commonly used in SMT assembly, the DS3000's intelligent X-ray technology ensures unmatched accuracy and efficiency.

Overall, the Wisdomshow DS3000 Intelligent X-ray counting system is perfect for electronics manufacturers, assembly plants, and component suppliers who demand high precision and reliability in their inventory counting processes. Whether used in incoming quality control, production monitoring, or outbound logistics, this SMT X-ray counting machine enhances productivity and reduces human error, making it a vital asset in modern electronics manufacturing workflows.



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