



## Offline X-Ray Counter Machine with 800 W Total Power for Multi-pin ICs Component Size Support and X-ray SMT Reel Counting

Our Product Introduction

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### Basic Information

- Brand Name: Wisdomshow
- Model Number: DS3000



### Product Specification

- 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
- Control Type: Industrial PC (IPC) Control, Windows 10 64-bit Enterprise Edition, Operated Via Mouse/keyboard
- Power: Power Supply: 220 V / 50 Hz; Total Power: 800 W
- Tube Voltage: 80 KV
- 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)
- Data Storage: Automatically Saves Counting Results



### More Images



**Product Description:**

The Offline X-Ray Counter Machine is an advanced and highly efficient X-ray material counting system designed specifically for the electronics manufacturing industry. This state-of-the-art device excels in accurately counting a wide range of electronic components, making it an indispensable tool for quality control and inventory management in surface-mount technology (SMT) production lines. With its superior detection capabilities and comprehensive data management features, this X-ray electronic parts counter streamlines the counting process, ensuring precision and reliability in component handling.

One of the standout features of this SMT component X-ray counter is its versatility in material detection. It is expertly engineered to handle taped SMD components on reels ranging from 7 to 17 inches, JEDEC trays, as well as loose or bulk components. This wide compatibility allows manufacturers to use a single device for various packaging formats, significantly enhancing workflow efficiency. 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 affect counting accuracy due to their complex shapes and layering.

The machine operates with a tube voltage of 80 KV, providing optimal X-ray penetration power to accurately detect and count components without causing damage. This voltage setting is carefully calibrated to ensure the highest level of precision while maintaining the safety and integrity of the components being inspected. The system's sensitivity extends to the smallest compatible component size of 01005, demonstrating its capability to handle even the tiniest SMT parts commonly used in modern electronics manufacturing.

In addition to its robust counting capabilities, the Offline X-Ray Counter Machine includes advanced printing functionality. It supports real-time printing of material codes and counting result labels, which can include both 1D and 2D barcodes. This feature facilitates seamless integration into production lines by enabling quick labeling and identification of counted components, thus reducing human error and improving traceability throughout the manufacturing process.

Data management is another critical aspect of this X-ray electronic parts counter. The machine automatically saves counting results, X-ray images, and Statistical Process Control (SPC) statistics, enabling manufacturers to maintain comprehensive records of their component inventories. It supports easy report export, allowing quality assurance teams to analyze data and generate detailed documentation as needed. Additionally, daily counting records are automatically generated, providing traceability and helping to ensure compliance with industry standards and customer requirements.

Overall, the Offline X-Ray Counter Machine represents a significant advancement in component counting technology. By combining high precision, versatile material compatibility, and comprehensive data management, it empowers manufacturers to optimize their SMT production lines and maintain stringent quality control measures. Whether used for small batch counting or large-scale production, this X-ray material counting system delivers reliable performance and unparalleled accuracy, making it an essential asset for any electronics manufacturing facility.

**Features:**

- Product Name: Offline X-Ray Counter Machine
- Advanced X-ray electronic parts counter with intelligent X-ray counting system capabilities
- Data Storage: Automatically saves counting results, images, and SPC statistics
- Supports report export for detailed analysis and record-keeping
- Daily counting records are automatically generated with full traceability
- Component Size Support: Compatible with 01005 and larger SMD components including resistors, capacitors, inductors, crystal oscillators, LEDs, diodes, transistors, multi-pin ICs, and more
- Control Type: Industrial PC (IPC) control running Windows 10 64-bit Enterprise Edition, operated via mouse and keyboard for user-friendly interface
- Counting Speed: Efficient counting of single tray or four 7" reels within 6-8 seconds
- Power Supply: 220 V / 50 Hz with a total power consumption of 800 W
- Functions as a reliable X-ray batch reel counter for high-volume electronic parts counting

**Technical Parameters:**

Tube Voltage	80 KV
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.)
Control Type	Industrial PC (IPC) Control, Windows 10 64-bit Enterprise Edition, Operated Via Mouse/keyboard
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
Tray Diameter	Compatible With 7" To 17" Reels (standard 15", Upgradable To 17"), Minimum 7", Includes Smaller Bulk Materials
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
Component Size	Smallest Compatible Component: 01005

### Applications:

The Wisdomshow DS3000 Offline X-Ray Counter Machine is a highly advanced and versatile solution designed for a variety of applications and scenarios in the electronics manufacturing and component distribution industries. As a state-of-the-art X-ray fast reel counter, it is ideal for accurately counting taped SMD components on reels ranging from 7" to 17" in diameter, including the standard 15" reels and smaller bulk materials. This flexibility makes it perfect for inventory management, quality control, and production line verification in factories and warehouses where precision and efficiency are paramount.

In electronics assembly plants, the DS3000 serves as a reliable X-ray material counting system, enabling operators to quickly and accurately verify component quantities before usage or shipment. Its compatibility with JEDEC trays and loose or bulk components further expands its application scope, ensuring that various packaging types can be handled seamlessly. The system's tube voltage of 80 KV allows it to penetrate taped reels and trays efficiently, providing high-precision counts without damaging sensitive components.

This smart X-ray reel counter is also ideal for procurement and inventory departments that require traceable, real-time data. The DS3000 supports real-time printing of material codes and counting result labels, including 1D and 2D barcodes, which facilitates smooth logistics and inventory tracking. Additionally, its ability to automatically save counting results, images, and SPC statistics ensures comprehensive data management. Daily counting records are generated automatically, supporting traceability and audit requirements in quality management systems.

Furthermore, the Wisdomshow DS3000 excels in scenarios where detailed reporting and data export are necessary. Companies can generate and export reports to streamline their production monitoring and inventory reconciliation processes. While it handles a wide range of materials, it is not suitable for overlapping or non-flat-layered materials such as metal springs, making it best suited for flat-layered component counting.

Manufactured in China with high-quality standards, the DS3000 Offline X-Ray Counter Machine is a dependable tool for electronics manufacturers, distributors, and quality assurance teams seeking a fast, accurate, and smart counting solution. Whether used in production lines, warehouses, or inspection stations, this X-ray fast reel counter ensures operational efficiency and accuracy, significantly reducing manual counting errors and improving overall productivity.



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