



## Offline X-Ray Counter Machine with AI Deep Learning Algorithm, 80 KV Tube Voltage, and 01005 Component Support

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  $\geq 99.99\%$
- 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)
- Radiation Safety: Radiation Leakage Dose  $< 1 \mu\text{Sv/h}$ ; Steel-lead-steel Housing; Lead-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.)



### More Images



**Product Description:**

The Offline X-Ray Counter Machine is a cutting-edge high-speed X-ray reel counter designed to revolutionize the way electronic components are counted and verified. Utilizing an advanced AI Deep Learning Algorithm, this intelligent X-ray counting system continuously improves its recognition accuracy as it is used, ensuring exceptional precision and efficiency in component counting tasks. With a current counting accuracy of  $\geq 99.99\%$ , this automatic X-ray component counter guarantees reliable results, minimizing errors and enhancing productivity in manufacturing and quality control processes.

One of the standout features of this Offline X-Ray Counter Machine is its remarkable compatibility with a wide range of reel sizes. The machine supports tray diameters from 7 inches to 17 inches, with a standard tray size of 15 inches that can be upgraded to accommodate larger reels up to 17 inches. This flexibility allows it to handle various reel formats commonly used in the electronics industry, including smaller bulk materials, making it an incredibly versatile tool for different production environments.

Powering the machine is a robust power supply of 220 V / 50 Hz, with a total power consumption of 800 W. This ensures stable and consistent operation, even during intensive counting sessions. The Offline X-Ray Counter Machine is engineered to support a comprehensive range of component sizes, specifically catering to 01005 and larger SMD components. It accurately counts resistors, capacitors, inductors, crystal oscillators, LEDs, diodes, transistors, multi-pin ICs, and other electronic parts, making it an all-in-one solution for component inventory management and verification.

The user experience is enhanced by an intuitive 24-inch HDMI LCD monitor, providing clear and detailed visuals of the counting process. Operation is streamlined through the use of a mouse and keyboard, allowing users to easily navigate the system interface, adjust settings, and monitor real-time counting results. This ergonomic design makes the Offline X-Ray Counter Machine accessible to operators of varying skill levels, reducing training time and increasing operational efficiency.

As a high-speed X-ray reel counter, this machine excels in delivering rapid and accurate counts without sacrificing reliability. The integration of AI deep learning technology elevates it beyond traditional counting machines by enabling continuous learning and adaptation, which reduces the likelihood of miscounts caused by component variations or reel inconsistencies. This intelligent X-ray counting system is particularly valuable in environments where precision and speed are paramount, such as electronics manufacturing, assembly lines, and quality assurance departments.

Moreover, the automatic X-ray component counter is designed with durability and ease of maintenance in mind. Its robust construction and advanced imaging capabilities ensure long-term performance with minimal downtime. By automating the component counting process, manufacturers can significantly reduce manual labor costs, minimize human error, and accelerate throughput, ultimately leading to improved operational workflows and higher product quality.

In summary, the Offline X-Ray Counter Machine is an innovative and reliable solution for accurate component counting. Its AI-driven accuracy improvement, wide tray diameter compatibility, comprehensive component size support, and user-friendly interface make it an indispensable tool in modern electronics production and inventory management. Whether dealing with standard reels or smaller bulk materials, this high-speed X-ray reel counter provides unmatched precision and efficiency, solidifying its position as a leading intelligent X-ray counting system and automatic X-ray component counter in the market.

**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 automatically generated with traceability
- Control Type: Industrial PC (IPC) Control running Windows 10 64-bit Enterprise Edition
- Operated via mouse and keyboard for ease of use
- User Interface: 24" HDMI LCD Monitor with mouse and keyboard operation
- Printing Capability: Supports real-time printing of material codes and counting result labels, including 1D/2D barcodes
- Designed as an intelligent X-ray counting system for accurate and efficient counting
- Specialized X-ray SMD parts counter suitable for various SMT components
- Functions as a reliable X-ray SMT reel counter to streamline production processes

**Technical Parameters:**

Component Size	Smallest Compatible Component: 01005
Power	Power Supply: 220 V / 50 Hz; Total Power: 800 W
User Interface	24" HDMI LCD Monitor + Mouse/keyboard Operation
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)
Radiation Safety	Radiation Leakage Dose < 1 $\mu$ Sv/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.)

Tray Diameter	Compatible With 7" To 17" Reels (standard 15", Upgradable To 17"), Minimum 7", Includes Smaller Bulk Materials
Control Type	Industrial PC (IPC) Control, Windows 10 64-bit Enterprise Edition, Operated Via Mouse/keyboard
Counting Speed	Single Tray Or Four 7" Reels: 6-8 Seconds

## Applications:

The Wisdomshow DS3000 Offline X-Ray Counter Machine is an advanced solution designed for precise and efficient counting of electronic components. As a leading X-ray SMD component counter, this device is ideal for various occasions and scenarios where accuracy and speed are paramount. Its robust design and cutting-edge technology make it suitable for use in manufacturing plants, quality control departments, and electronics assembly lines.

One of the primary application scenarios for the DS3000 is in SMT (Surface Mount Technology) production lines, where it serves as an essential tool for counting reels of SMD components quickly and accurately. The machine's compatibility with tray diameters ranging from 7" to 17" reels, including smaller bulk materials, allows it to handle a wide variety of component sizes and packaging types. This makes it highly versatile in environments where different component reels are processed, such as electronic manufacturing services (EMS) companies and contract manufacturers.

In addition to manufacturing, the DS3000 is perfectly suited for inventory management and procurement departments that require fast and reliable counting of incoming or outgoing components. Its designation as an X-ray fast reel counter ensures that users can dramatically reduce the time spent on manual counting, increasing operational efficiency and minimizing human error. The integration of an AI deep learning algorithm continuously improves recognition accuracy, reaching a current counting accuracy of  $\geq 99.99\%$ , which is critical for maintaining precise inventory records and avoiding component shortages or excesses.

Safety and user experience are also prioritized in the DS3000's design. Featuring a 24" HDMI LCD monitor with mouse and keyboard operation, the user interface is intuitive and easy to navigate. The machine's steel-lead-steel housing, leaded glass front door, and safety interlock system ensure radiation safety with leakage doses under  $1 \mu\text{Sv/h}$ , providing peace of mind in any industrial or laboratory setting. Furthermore, the exemption filing obtained for radiation safety compliance means the DS3000 can be deployed without extensive regulatory hurdles.

For electronics manufacturers working with the smallest components, such as 01005 size parts, the DS3000 offers unmatched precision and reliability. This makes it an indispensable X-ray fast reel counter for high-tech industries including aerospace, automotive, and medical device manufacturing, where component accuracy is critical. Overall, the Wisdomshow DS3000 Offline X-Ray Counter Machine is a powerful, safe, and versatile tool designed to meet the demanding needs of modern electronic component counting across diverse application occasions and scenarios.



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