



DS3000 Offline X-Ray Counter Machine with 99.99% Counting Accuracy 80 KV Tube Voltage and 6-8 Seconds Counting Speed

Our Product Introduction

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Basic Information

- Brand Name: Wisdomshow
- Model Number: DS3000



Product Specification

- Power: Power Supply: 220 V / 50 Hz; Total Power: 800 W
- Tray Diameter: Compatible With 7" To 17" Reels (standard 15", Upgradable To 17"), Minimum 7", Includes Smaller Bulk Materials
- Radiation Safety: Radiation Leakage Dose < 1 μ 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
- Accuracy Improvement: AI Deep Learning Algorithm, Automatically Improves Recognition Accuracy With More Use; Current Counting Accuracy \geq 99.99%



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Product Description:

The Offline X-Ray Counter Machine is an advanced and highly efficient solution designed specifically for precise counting and inspection of electronic components on reels. This cutting-edge device is widely recognized as an X-ray fast reel counter, offering unparalleled speed and accuracy for various industrial applications. Whether you require a high-speed X-ray reel counter or an X-ray batch reel counter, this machine delivers exceptional performance tailored to meet the demands of modern manufacturing and quality control processes. Equipped with a user-friendly 24" HDMI LCD monitor, the Offline X-Ray Counter Machine facilitates intuitive operation through mouse and keyboard controls. This sophisticated user interface ensures that operators can easily navigate the system, adjust settings, and monitor real-time results with convenience and precision. The large, high-definition display enhances visibility, enabling meticulous inspection and swift decision-making during component counting and verification tasks.

The machine operates with a tube voltage of 80 KV, providing optimal X-ray penetration and image clarity for various component sizes. Notably, it supports the smallest compatible component size down to 01005, making it exceptionally versatile for counting and inspecting ultra-small electronic parts commonly used in advanced electronics manufacturing. This capability positions the Offline X-Ray Counter Machine as a premier choice for industries requiring stringent accuracy and reliability in component handling.

One of the standout features of this device is its comprehensive printing capability. It supports real-time printing of material codes and counting result labels, including both 1D and 2D barcodes. This functionality streamlines the documentation and tracking process, allowing manufacturers to maintain meticulous records and ensure traceability throughout the supply chain. The ability to print labels on demand directly from the counting machine enhances operational efficiency and reduces the risk of human error associated with manual labeling.

In terms of data management, the Offline X-Ray Counter Machine excels with its automatic data storage system. Counting results, captured images, and Statistical Process Control (SPC) statistics are securely saved within the system, providing a reliable archive of production data. Additionally, the machine supports the export of detailed reports, enabling users to analyze performance metrics and quality trends effectively. Daily counting records are automatically generated with traceability features, ensuring that every batch of components is fully documented and easily retrievable for audits or quality checks.

As an X-ray fast reel counter, this machine significantly reduces downtime and increases throughput by accelerating the counting process without compromising accuracy. Its high-speed X-ray reel counter capabilities make it ideal for large-scale production environments where rapid and precise component counting is critical. Furthermore, as an X-ray batch reel counter, it offers batch processing functions that cater to the needs of manufacturers handling multiple reels simultaneously, enhancing overall workflow efficiency.

In summary, the Offline X-Ray Counter Machine is a state-of-the-art device that combines advanced X-ray technology with user-centric design and robust data management features. Its 24" HDMI LCD monitor with mouse and keyboard operation, 80 KV tube voltage, compatibility with ultra-small components (01005), real-time label printing, and comprehensive data storage capabilities make it an indispensable tool for electronics manufacturers. Whether used as an X-ray fast reel counter, a high-speed X-ray reel counter, or an X-ray batch reel counter, this machine ensures accuracy, traceability, and efficiency in every counting task, ultimately supporting quality assurance and production excellence.

Features:

- Product Name: Offline X-Ray Counter Machine
- User Interface: 24" HDMI LCD Monitor with Mouse and Keyboard Operation
- 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)
- Tray Diameter: Compatible With 7" To 17" Reels (Standard 15", Upgradable To 17"), Minimum 7"
- Includes Compatibility With Smaller Bulk Materials
- Smallest Compatible Component Size: 01005
- Counting Speed: Single Tray Or Four 7" Reels Counted Within 6-8 Seconds
- Ideal for use as an X-ray automated reel counter
- Efficient SMT component X-ray counter for precise counting
- Advanced X-ray reel counting equipment designed for accuracy and speed

Technical Parameters:

Counting Speed	Single Tray Or Four 7" Reels: 6-8 Seconds
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
Power	Power Supply: 220 V / 50 Hz; Total Power: 800 W
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)
Tube Voltage	80 KV

Component Size	Smallest Compatible Component: 01005
Data Storage	Automatically Saves Counting Results, Images, And SPC Statistics; Supports Report Export; Daily Counting Records Automatically Generated With Traceability

Applications:

The Wisdomshow DS3000 Offline X-Ray Counter Machine is a state-of-the-art high-speed X-ray reel counter designed to meet the demanding needs of modern electronics manufacturing and quality control environments. Originating from China, this advanced device features an 80 KV tube voltage and operates on a stable power supply of 220 V / 50 Hz with a total power consumption of 800 W, ensuring reliable and efficient performance in various industrial settings.

One of the primary application occasions for the DS3000 is in electronics factories where precise counting of X-ray SMD parts is critical. This X-ray automated reel counter excels at accurately counting surface-mount device components sealed in reels, which is essential for inventory management, production verification, and quality assurance processes. Its radiation safety features, including a radiation leakage dose of less than 1 $\mu\text{Sv/h}$, steel-lead-steel housing, leaded glass front door, and an automatic power cut safety interlock when the door is opened, make it safe to operate in environments where radiation protection is a priority. Additionally, the exemption filing obtained for this equipment further assures compliance with safety regulations.

The DS3000 is well-suited for use in warehouses, production lines, and inspection stations where fast and accurate counting is necessary to optimize workflow and reduce manual labor errors. Its user-friendly interface includes a 24" HDMI LCD monitor along with mouse and keyboard operation, controlled via an industrial PC running Windows 10 64-bit Enterprise Edition. This setup facilitates intuitive control and precise data management, enabling operators to quickly adapt to the system and maintain high productivity levels.

Moreover, the Wisdomshow DS3000 can be strategically deployed in quality control laboratories and research facilities where detailed analysis of reel components is required. The combination of high-speed X-ray technology and advanced software control allows for efficient detection and counting of tiny components without damaging the reels or parts. This makes it an indispensable tool for electronics manufacturers aiming to enhance accuracy, reduce waste, and improve overall production efficiency.

In summary, the Wisdomshow DS3000 Offline X-Ray Counter Machine is ideal for any scenario that requires a reliable, fast, and safe X-ray SMD parts counter or high-speed X-ray reel counter. Its robust design, enhanced radiation safety features, and sophisticated user interface make it a valuable asset for industries focused on precision counting and automated inspection of electronic components.



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