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› Royal Sovereign RBC-ED250 High Speed Currency Counter User Manual

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Model: RBC-ED250

INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation of your Royal Sovereign RBC-ED250 High Speed Currency Counter. This device is designed to accurately count banknotes and detect counterfeit currency using advanced UV, MG, and IR technologies. Please read this manual thoroughly before operating the unit and retain it for future reference.

IMPORTANT SAFETY INFORMATION

- Ensure the power supply matches the unit's requirements.
- Do not operate the unit with wet hands.
- Keep the unit away from water or other liquids.
- Do not attempt to disassemble or repair the unit yourself. Refer to qualified service personnel.
- Unplug the unit before cleaning or when not in use for extended periods.
- Keep children away from the unit during operation.

PRODUCT OVERVIEW

The Royal Sovereign RBC-ED250 is a high-speed currency counter equipped with multiple features to streamline your cash handling processes.



Figure 1: Front view of the Royal Sovereign RBC-ED250 Currency Counter, showing the control panel, hopper, and stacker.

Key Features:

- **High Speed Counting:** Counts at variable speeds of 900, 1,200, or 1,500 bills per minute.
- **Large Capacity:** Hopper holds up to 500 bills.
- **3-Phase Counterfeit Detection:** Utilizes Ultraviolet (UV), Magnetic (MG), and Infrared (IR) detection to identify suspicious banknotes.
- **Simple Operation:** Features auto start/stop, add mode, and batch mode.
- **Value Counting:** Allows totaling the number of bills by denomination and provides a grand total. Each denomination must be counted separately.
- **Durable Construction:** cTUVus certified for reliability.
- **Supports New US \$100 Notes:** Compatible with the latest currency designs.

SETUP

1. **Unpacking:** Carefully remove the currency counter from its packaging. Retain all packaging materials for future transport or storage.

2. **Placement:** Place the unit on a stable, flat surface, ensuring adequate ventilation around the machine.
3. **Power Connection:** Connect the power cord to the unit's power input and then to a grounded electrical outlet.
4. **Initial Power On:** Turn on the power switch, usually located on the rear or side of the unit. The machine will perform an automatic self-diagnostic startup test.
5. **External Display (Optional):** If an external display is included, connect it to the designated port on the unit for additional viewing options.

OPERATING INSTRUCTIONS

1. Basic Counting

1. Ensure the unit is powered on and has completed its self-diagnostic test.
2. Straighten and fan out the banknotes to prevent jams.
3. Place the stack of bills neatly into the hopper. The auto start/stop function will begin counting automatically.
4. The count will be displayed on the screen. Once counting is complete, remove the counted bills from the stacker.



Figure 2: Proper placement of banknotes into the hopper for counting.

2. Counterfeit Detection

The RBC-ED250 automatically checks for counterfeit bills using UV, MG, and IR detection during the counting process. If a suspicious bill is detected, the machine will stop, and an error code or alert will be displayed. Remove the suspicious bill and press the START button to resume counting.

3. Add Mode

Add mode allows the cumulative counting of multiple stacks of bills. The total count will accumulate on the display.

- Press the **ADD** button to activate Add mode. The "ADD" indicator light will illuminate.
- Place the first stack of bills into the hopper. The machine will count them.
- Place subsequent stacks into the hopper. The machine will add the new count to the previous total.
- To exit Add mode, press the **ADD** button again.

4. Batch Mode

Batch mode allows you to count bills into predetermined quantities (batches).

- Press the **BATCH** button to activate Batch mode. The "BATCH" indicator light will illuminate.
- Use the **+** and **-** buttons to set the desired batch quantity (e.g., 10, 20, 50, 100).
- Place a stack of bills into the hopper. The machine will count until the set batch quantity is reached, then stop.
- Remove the batch from the stacker. The machine will automatically resume counting the remaining bills for the next batch.
- To exit Batch mode, press the **BATCH** button again.



Figure 3: The currency counter in operation, showing a batch of bills being processed.

5. Value Counting

The RBC-ED250 can calculate the total value of counted bills. This feature requires you to count each denomination separately.

- Separate your bills by denomination (e.g., all \$1s, all \$5s, all \$10s).

- Select the dollar denomination for the current stack using the appropriate buttons (refer to the control panel for specific denomination selection).
- Count the stack of bills. The machine will display the count and the value for that denomination.
- Repeat for all denominations. The machine will track the cumulative value.
- After all denominations are counted, the RBC-ED250 will provide the total number of bills, the value of each denomination, and a grand total amount.

MAINTENANCE

Regular cleaning is essential for maintaining the accuracy and longevity of your currency counter. Dust and debris can accumulate on sensors and rollers, leading to errors or jams.

Cleaning Procedure:

1. **Power Off and Unplug:** Always turn off the unit and unplug it from the power outlet before cleaning.
2. **Dust Removal:** Use a soft brush or compressed air to remove dust and lint from the hopper, stacker, and internal sensors. Pay close attention to the bill path.
3. **Sensor Cleaning:** Gently wipe the UV, MG, and IR sensors with a soft, lint-free cloth, possibly dampened with a small amount of isopropyl alcohol if necessary. Ensure sensors are dry before use.
4. **Roller Cleaning:** Clean the rubber rollers with a soft cloth. If rollers appear worn or dirty, they may affect bill feeding.
5. **Exterior Cleaning:** Wipe the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
6. **Frequency:** Clean the unit regularly, especially if you experience frequent error codes or miscounts.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Machine jams frequently.	Bills are not properly aligned; worn or dirty rollers; foreign objects in bill path; bill thickness setting incorrect.	Straighten bills before loading. Clean rollers and bill path. Adjust bill thickness if applicable (refer to specific model controls).
Inaccurate counts.	Dirty sensors; bills are stuck together; worn rollers.	Clean all sensors. Ensure bills are separated. Clean or replace rollers if heavily worn.
Counterfeit detection errors.	Dirty UV/MG/IR sensors; damaged or very old bills; actual counterfeit bill.	Clean counterfeit detection sensors. Try counting the bill again. If it consistently flags, it may be counterfeit.
Display screen not working correctly (e.g., only some numbers light up).	Internal component failure; loose connection.	Power cycle the machine. If the problem persists, contact customer support for service.
Machine does not start.	No power; power switch off; hopper empty.	Check power cord connection and outlet. Ensure power switch is on. Place bills in hopper for auto-start.

SPECIFICATIONS

Model: RBC-ED250
Brand: Royal Sovereign
Counting Speed: 900 / 1,200 / 1,500 bills per minute

Hopper Capacity: Up to 500 bills

Stacker Capacity: Approximately 200 bills

Counterfeit Detection: UV (Ultraviolet), MG (Magnetic), IR (Infrared)

Modes: Count, Add, Batch, Value Count

Dimensions (Product): 14.37 x 12.2 x 9.76 inches

Item Weight: 12.1 pounds

Material Type: Plastic

Color: Black, Silver

Certifications: cTUVus

WARRANTY AND SUPPORT

The Royal Sovereign RBC-ED250 Currency Counter comes with a **1-Year Manufacturer's Limited Warranty**. For warranty claims, technical support, or service inquiries, please contact Royal Sovereign customer support. Refer to the product packaging or the official Royal Sovereign website for the most current contact information.

Online Resources: For additional support and FAQs, visit the Royal Sovereign website.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

