

Owner's Manual



HIGH SPEED BILL COUNTER WITH VALUE COUNTING



RBC-ED350

Thank you for purchasing the Royal Sovereign Bill Counter with Value Counting - RBC-ED350. This manual will provide you with safety information, instructions for optimal use, and proper care and maintenance for your product. Please read this manual carefully before operating.

CONTENTS

| | |
|--|-------|
| SAFETY INSTRUCTIONS | 2 |
| BOX CONTENTS | 3 |
| PRODUCT VIEW | 3 |
| QUICK START GUIDE | 4 |
| CONTROL PANEL | 5 |
| PRODUCT OPERATION | 6 - 7 |
| MAINTENANCE OF THE MACHINE | 8 |
| ERROR CODE DISPLAY AND SOLUTIONS | 9 |
| TROUBLESHOOTING | 10 |
| SPECIFICATIONS | 10 |
| WARRANTY | 11 |

SAFETY INSTRUCTIONS

When using this machine follow these safety precautions to reduce risk of fire, electric shock, or injury.

WARNING

1. Only use the power cord that comes with the machine. Plug the power cord into a properly grounded wall outlet.
2. Do not use the machine if the power cord is damaged.
3. Do not place the machine in an area where it may be exposed to water or other liquids.
4. Do not take apart the machine. When service or repairs are needed, bring to a qualified service repair technician or contact Royal Sovereign Customer Service.
5. When unplugging the power cord from the outlet, grip the plug to pull it out.
6. Do not place objects on the power cord and do not bend it excessively.
7. Before dusting the machine with a brush, unplug the machine from the wall. Do not use liquid or aerosol cleaners on the machine. Use a soft brush to avoid any paper particles or dust from sticking to the light transmitter or the light receiving sensors.
8. Do not use the machine in areas of high temperature, high humidity, or strong sunlight. This may result in the machine not working properly.
9. When not using the machine for long periods of time, unplug the power cord from the outlet.
10. The effective power must be in scope of 110V.

Read & Fully Understand This Owner's Manual Before Using This Machine.

BOX CONTENTS



Bill Counter



Power Cord

PRODUCT VIEW



Hopper

Carrying Handle

Control Panel

Bill Receiving Vanes

Stacker

QUICK START GUIDE

1. Plug the power cable into the back of the unit and into the wall power outlet (B).
2. On the back of the machine, flip the power switch to power on (A).
3. The machine will go through an automatic self-diagnostics test to ensure accurate bill counting. The counting wheels in the bill counter will spin several times to ensure it is ready for use. When the machine has completed its test run and "0" displays on the machine, it is now ready for counting.
4. Place your currency into the hopper to automatically begin counting.



A: Power Switch

B: Power Socket

C: Printer Port

D: Bill Thickness Adjuster

For More Detailed Instructions, Go To Page 6

CONTROL PANEL



Counterfeit Detection (CF Key) – To use the detection methods, press the “CF” button once. If the machine detects an error due to one of these methods, the machine will stop counting to allow for removal of the suspect bill and an error code will display.

Ultraviolet Counterfeit Detection (UV)

The Ultraviolet detector will look for suspect bills that use white or bleached paper.

Magnetic Counterfeit Detection (MG)

The Magnetic detector will look for the presence of magnetic components that are standard in authentic bills.

Infrared Counterfeit Detection (IR)

The Infrared detector verifies dimensional specifications and imperfections caused in the counterfeiting process.

Dimensional Detection (DD)

The Dimensional detector measures the width of the center of each bill, looking for odd sized bills.

RPT (Report) Button

Select the Report button to view the count record. By holding “RPT”, you can view the total number of bills and values of each denomination along with a grand total. Press the “RPT” button again to exit this screen.

PRT (Print) Button

Select the Print button to print the detailed count report. To use the print function, you will require a printer with RS-232 interface (not included). To print, ensure you are on the Report Screen. Press “PRT” to print the report.

PRODUCT OPERATION

1. Attach the power cable to the back of the machine, plug into an outlet, and turn the switch on.
 - The unit will conduct an automatic self-diagnostics to ensure accurate counts.
 - After three seconds of the counting wheels spinning, the screen will display “0”.
 - If there is a problem, the preset display will show an error code. (See ERROR CODE DISPLAY AND SOLUTIONS – LOCATED ON PAGE 9.)
2. Before counting, select counting settings that are related to your counting needs:
 - **Auto and Manual Start Modes:** The machine is preset to automatically start counting bills once placed into the hopper. To change to manual start mode, press the “MNL/AUTO” button, insert the bills into the hopper, and press the “START” button. Press the “MNL/AUTO” button again to return to auto mode.
 - **Add Mode:** The Add mode displays the cumulative total of all bills counted. To turn the ADD mode on, press the “ADD” button.
 - **Batch Mode:** The machine is preset to common counting mode. To count bills in batches, press the “BATCH” button. Batching is preset to 100 bills. To change the batch amount, use the keypad to enter a batch number between 1 and 999. Press “START” to save the setting. Press the “C” button again to clear.
 - **Counterfeit Detection:** To turn on/off counterfeit detection methods, press the “CF” button. If a suspicious bill is found, the machine will stop counting to allow removal and will display the error code on the display. To resume counting, simply press “START”.

PRODUCT OPERATION (Continued)

- **Value Counting:**

The machine will total the number of bills by denomination and total value by denomination as well as provide a grand total. Each denomination must be counted separately. To operate press the "ADD" button. Then on the keypad press the denomination to be counted (\$1 - \$100). After the denomination is counted, press the next denomination to be counted and continue until all denominations needed to be counted are complete. Then press and hold the "REPORT" button to view the total number of bills and values of each denomination along with a grand total.

Single Denomination Counting-

Select denomination to be counted from the Numeric/Denomination keypad.

Place bills in hopper.

Total number of bills and denomination value will show on display screen after bills are counted.

Multi-Denomination Value Counting-

Press the "ADD" button.

Select denomination to be counted from the Numeric/Denomination keypad

Place bills in hopper.

Select next denomination and repeat process above.

After all denominations are have been counted press and hold the "REPORT" button and the number of bills and value for each denomination along with a grand total will show on the display screen.

3. Place bills into the hopper to begin counting.

MAINTENANCE OF THE MACHINE

WARNING: Before dusting or cleaning, turn the power switch off and disconnect the power cord from the machine. It is very important to clean all the sensors in the machine with a soft brush to avoid any paper particles or dust from sticking to the light transmitter or the light-receiver sensors. It is important to clean the inside of the machine occasionally. Unplug the machine and lift the top cover to gain access to the interior.

If necessary, the glass surfaces of the detectors may be wiped with a soft cloth dampened with alcohol.

To get the best results out of your bill counter, Royal Sovereign recommends using **Royal Sovereign Cleaning Cards (RBC-CLN)** to remove dirt, dust, oils, and other contaminants from bill counters. With the machine on, simply run the cleaning card through the machine like a bill. This cleaning card will run through and clean the sensors of dirt and other contaminants. Cleaning cards are recommended to be used after every 100 cycles.

ERROR CODE DISPLAY AND SOLUTIONS

The display may show some error codes when counting, which means there are some problems with the machine. Refer to the chart below to solve the errors.

| Error Code | Reason | Solutions |
|--------------|---|---|
| CODE CE02 | Code disc sensor is dirty or broken. | Clean the sensor or contact Royal Sovereign. |
| START CE04 | Hopper sensor is dirty or broken. | Clean the sensor or contact Royal Sovereign. |
| CLEAR CE05 | Stacker sensor is dirty or broken. | Clean the sensor or contact Royal Sovereign. |
| IRL CE06 | The left counting sensor is dirty or broken. | Clean the sensor or contact Royal Sovereign. |
| IRR CE08 | The right counting sensor is dirty or broken. | Clean the sensor or contact Royal Sovereign. |
| UV ERROR | UV sensitivity light is too high. Suspect bill is detected without UV. | Lower the UV sensitivity. Remove first bill from the stacker, then continue counting. |
| MG ERROR | Suspect bill detected without MG. | Remove first bill from the stacker, then continue counting. |
| DOUBLE ERROR | The last counted bill is a double note. | Remove first bill from the stacker, then continue counting. |
| WIDTH ERROR | The bill width size is over 8mm difference to the real USD bill size. | Remove jammed bill from the machine, then continue counting. |
| HALF ERROR | A half bill is counted. The counting sensor is dirty or broken. | Remove first bill from the stacker, then continue counting. |
| CHAIN ERROR | Chain bill is detected. | Remove first bill from the stacker, then continue counting. |

If you are receiving error codes above, check the machine for dust. If you continue to receive error codes, please contact Royal Sovereign's Service Center at 1-800-397-1025.

TROUBLESHOOTING

| Error Code | Reason | Solutions |
|---|-----------------------------|--|
| Bills get damaged / Machine runs slow | Hopper Tension is too tight | To loosen the tension, please turn the bill thickness adjuster (located on the back of the machine) clockwise. Repeat bill counting and adjust if the problem continues. |
| Bills eject from the machine / Display shows miscount | Hopper Tension is too loose | To tighten the tension, please turn the bill thickness adjuster (located on the back of the machine) anti-clockwise. Repeat bill counting and adjust if the problem continues. |

SPECIFICATIONS

| Model | RBC-ED350 |
|--------------------------------|---|
| Power | AC 100V~240V 50/60 Hz |
| Power Consumption | ≤90W |
| Temperature Range of Operation | 32~104 °F / 0~40 °C |
| Hopper Capacity | 500 notes |
| Counting Speed | 900 / 1,200 / 1,500 bills per minute |
| Accepted Note Size | L:50~100mm (1.9 - 3.9 in) W:90~190mm (3.5-7.5 in) |
| Accepted Currency | USD |
| Display Range | Counting: 4 Digits / Batch Counting: 3 Digits |
| Dimensions | 12.79" W x 12.20" D x 10.35" H (325 x 310 x 263 mm) |
| Net Weight | 9.92 lbs. / 4.50 kgs |

ONE YEAR LIMITED WARRANTY

Royal Sovereign International, Inc. warrants this product to be free from defects in material and workmanship for a period of one (1) year. This warranty is extended to the original purchaser only.

This warranty only covers products that are properly installed, properly maintained, and properly operated in accordance with the instructions provided. This limited warranty does not cover any failures or operating difficulties due to normal wear and tear, accident, abuse, misuse, alteration, misapplication, improper installation, or improper maintenance and service by you or any third party.

Returned product will not be accepted without a Return Authorization number. To request a Return Authorization number, please visit us at www.royalsovereign.com. All transportation costs for the return of damaged product or parts will be the responsibility of the purchaser. Return defective product, in original packaging, to the address below.

Royal Sovereign International, Inc. requires reasonable proof of your date of purchase from an authorized retailer or distributor. Therefore, you should keep your receipt, invoice, or canceled check from the original purchase. The limited warranty shall be limited to the repair or replacement of parts which prove defective under normal use and service within the warranty period.

Royal Sovereign International, Inc. (and its affiliated companies) SHALL HAVE NO LIABILITY WHATSOEVER TO PURCHASER OR ANY THIRD PARTY FOR ANY SPECIAL, INDIRECT, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above exclusion and limitations may not apply to you.

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