Owner's Manual

RS Royal Sovereign®

HIGH SPEED BILL COUNTER WITH VALUE COUNTING

RBC-EG100

Thank you for purchasing the Royal Sovereign Bill Counter with Value Counting - RBC-EG100. 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

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

⚠ WARNING
1. Only use the power adapter that comes with the machine. Plug the power adapter into a properly grounded wall outlet.
2. Do not use the machine if the power adapter 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 adapter from the outlet, grip the plug to pull it out.
6. Do not place objects on the power adapter 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 adapter from the outlet.
10. The effective power must be in scope of 100~240V.

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

BOX CONTENTS

Bill Counter

Power Adapter

External Display

PRODUCT VIEW

Carrying Handle

Hopper

Control Panel

Bill Receiving Vanes

Stacker

QUICK START GUIDE

1. Plug the power adapter 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: External Display Port

D: Bill Thickness Adjuster

For More Detailed Instructions, Go To Page 6

CONTROL PANEL

Counterfeit Detection (FUNC Button) – All detection methods are enabled once the machine is turned on. 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 sensors detect double and half notes and verifies proper dimensional specifications of banknotes.
   Dimensional Detection (DD)
   The Dimensional detector measures the width of the center of each bill, looking for odd sized bills.
Value Button
Select the "VALUE" button to utilize the value counting feature. Please see page 7 for more information.
Reset Button
Press the "RESET" button to reset bill counts.
Add Button
Press the "ADD" button to turn on Add mode.
Manual / Auto Start Button
Press the "M/A" button to flip between Auto and Manual bill counting.
Batch Button
Press the "BATCH" button to turn on Batch mode.

PRODUCT OPERATION

1. Attach the power adapter 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 8 & 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 "M/A" button, insert the bills into the hopper, and press the "RESET" button to start counting. Press the "M/A" 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 the "BATCH" button to clear.

   - **Counterfeit Detection**: When the machine is turned on, all counterfeit detection methods are automatically enabled. To turn on/off counterfeit detection methods, press the "FUNC" 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 "RESET".

     - Press "FUNC" once to have UV, IR, and DD methods on.

     - Press "FUNC" again to have DD method on.

     - Press "FUNC" again to turn off all detection methods (Basic Count Mode).

     - Press "FUNC" again to turn on all detection methods (MG, UV, IR, and DD).

PRODUCT OPERATION (Continued)

- **Value Counting:**
  The machine can provide a grand total of the denominations counted. Each denomination must be counted separately. To operate press the "VALUE" button and then the "ADD" button. Next, 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.

  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.
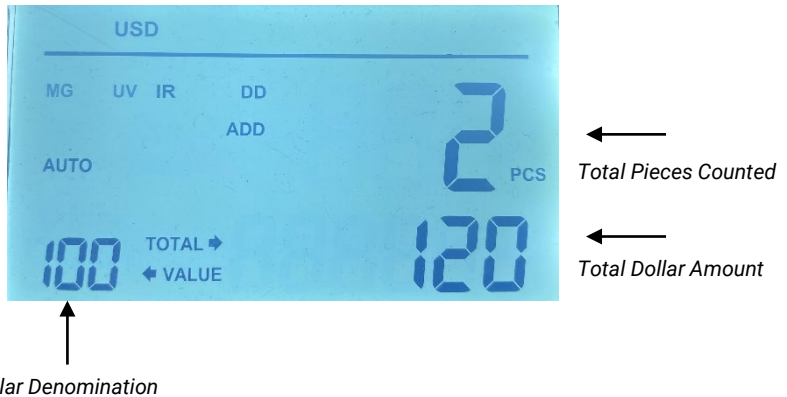 Multi-Denomination Value Counting-
  Make sure the "ADD" button is selected.
  Select denomination to be counted from the Numeric/Denomination keypad.
  Place bills in hopper.
  Select next denomination and repeat process above.

Total Pieces Counted

Total Dollar Amount

Dollar Denomination

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 damped 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 contaminates 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 contaminates. 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
E01	The left counting sensor is dirty or broken	Clean the sensor or contact Royal Sovereign.
E02	The right counting sensor is dirty or broken	Clean the sensor or contact Royal Sovereign.
E03	Code disc sensor is dirty or broken	Clean the sensor or contact Royal Sovereign.
E04	Hopper sensor is dirty or broken	Clean the sensor or contact Royal Sovereign.
E05	Stacker sensor is dirty or broken	Clean the sensor or contact Royal Sovereign.
BF	Wheels are running without bills	Press RESET and recount.

ERROR CODE DISPLAY AND SOLUTIONS (Continued)

Error Code	Reason	Solutions
E0A	Ambient light is too high	Keep it away from direct light.
	UV sensitivity light is too high	Lower the UV sensitivity.
EE 1	Suspect bill detected without UV	Remove first bill from the stacker, then continue counting.
EE 2	Suspect bill detected without MG	Remove first bill from the stacker, then continue counting.
EE 4	A half bill is counted	Remove first bill from the stacker, then continue counting.
	The counting sensor is dirty or broken	Clean the sensor or contact Royal Sovereign.
EE 5	The last counted bill is a double note	Remove first bill from the stacker, then continue counting.
EE 7	Slanting bill is detected	Remove first bill from the stacker, then continue counting.
EE 8	The bill width size is shorter than 30mm	Remove first bill from the stacker, then continue counting.
EE 9	The bill width size is larger than 75mm	Remove jammed bill from the machine, then continue counting.
EEA	Chain bill is detected	Remove first bill from the stacker, then continue counting.
EEb	The bill width size is over 8mm difference to the real USD bill size	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

Problem/Issue	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) anti-clockwise. Repeat bill counting and adjust if the problem continues.
Bills eject from the machine / Display shows miscount / Frequent EE5 or EEA message	Hopper Tension is too loose	To tighten 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.

SPECIFICATIONS

Model	RBC-EG100
Power	Input: AC 100~240V, 50/60 Hz Output: DC 12V 5A
Power Consumption	≤ 90W
Hopper Capacity	500 notes
Counting Speed	1,500 bills per minute
Accepted Currency	USD
Display Range	Counting: 3 Digits / Batch Counting: 3 Digits
Dimensions	10.10" W x 9.70" D x 9.70" H (256 x 246 x 246 mm)
Net Weight	10.36 lbs. / 4.70 kgs

ONE YEAR LIMITED WARRANTY

Royal Sovereign International, Inc. warranties 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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