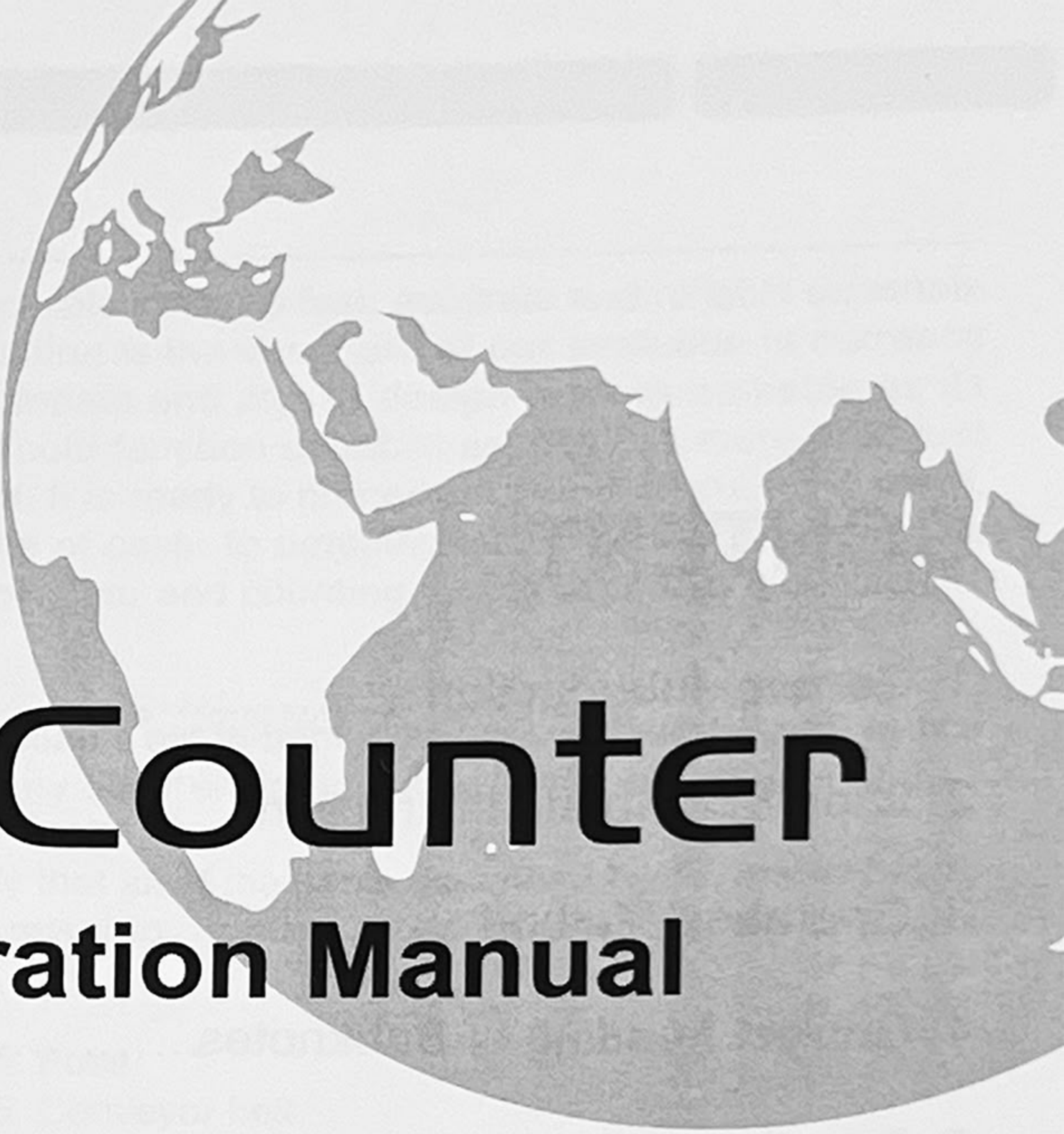




Bill Counter

Operation Manual

Preface

- Thank you for purchasing our money counter.
- Guarantee is one year from the date of supply.
- This user guide compiles all the relevant instructions about the use and operation of the machine.
- We recommend the new user to read the manual thoroughly, in order to get familiarized with the controls and operation of the unit.

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1. General Introduction

- The bill counter is the perfect solution for a fast, accurate and reliable banknote counting process. This machine is the vanguard of our evolution in currency counting technology. Its compact and stylish design is as remarkable as its integrated electronics and multi-function capabilities. But it is more than just looks and hi-tech electronics. It is ready to process the most demanding tasks, from counting large amounts of cash, to batching custom bill quantities. The power to dramatically reduce labor and counting losses is now at the reach of your hands.
- This machine makes an invaluable aid in banks, casinos, supermarkets, movie theaters, retail shops and many other environments where moneys are used.
- When opening the box, verify that all of the items described below are included. If any item is damaged or missing, contact the dealer where the unit was purchased.

- | | |
|-------------------|-----------------------------|
| 1. Machine | 5. Fuse |
| 2. User manual | 6. Conveyor belt |
| 3. Power cord | 7. External display |
| 4. Cleaning brush | 8. Rubber roller (optional) |

2. Important Safety Instructions

When using this bill counter, basic safety precautions should always be followed to reduce the risk of fire, electric shock or injury to persons; including the following:

 Warning	
	Do not use this product in areas where it may be exposed to water or other liquids.
	Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
	To reduce the risk of electric shock, do not disassemble this product. Take it to qualified service personnel when service or repair work is required. Opening or removing covers -like the rear cover plate- may expose you to dangerous voltages or other risks. Incorrect re-assembly can cause electric shock when the appliance is subsequently used.
	Only use the cable provided with the unit. The use of other cables may result in electric shock, fire or cause serious damage to the unit.
	Do not operate the unit in areas with high temperature or high humidity since it may prevent it from working correctly.

 Caution	
	When unplugging the power plug, do not pull it by the cord but rather grip the plug to pull it out. Not following these instructions may result in electric shock, fire or damage to the unit.
	Do not use the unit if the power cord is damaged or if the plug socket contact is loose. Not following these instructions may result in electric shock, fire or other hazards.
	Do not place heavy objects over the cord and do not bend it excessively since it could get damaged. Not following these instructions may result in electric shock, fire or other hazards.
	When not using the unit for a long period of time, remove the power plug from the wall outlet.

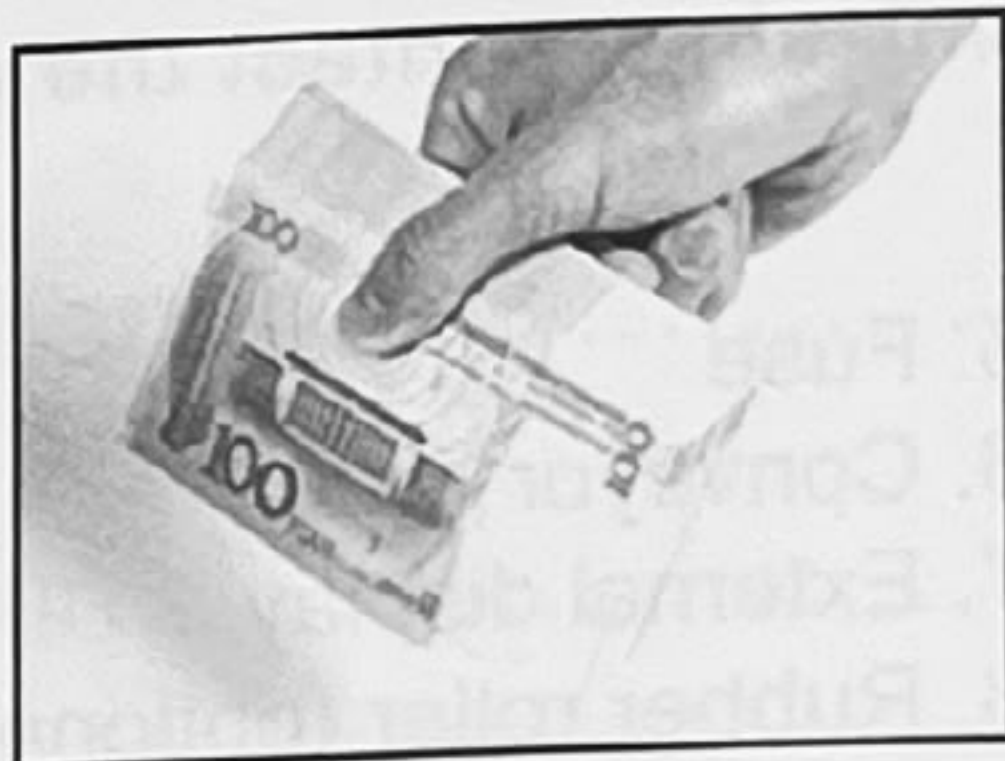
3. Operation Method

- Connect the power cord to the unit, then to a power source and turn the power switch on; the unit will conduct a self-check by spinning the counting wheels several times. The counting number display will show "0" when the unit is ready.
- To avoid wrong detecting, please check and take out the banknotes before counting which are as following:
 1. Mended notes with paper
 2. Washed notes
 3. Very dirty notes
 4. Broken notes

4. Correct Feeding of Banknotes

Banknotes need to be put orderly and placed between the counting guides, please refer to the following pictures:

Method One:



Method Two:



5. Functions Introduction

Counting Function

Once the bills are correctly placed in the hopper plate, the machine will start counting automatically. The number of counted bills will be shown on the counter display. Moreover, once the bills are removed from the stacker, the counter display will clear and the batch display in turn will show the number of last counted bills instead.

UV (Ultraviolet) Detection Function (available for the model with UV detection or with both UV and MG detection)



The UV detection function is selected or deselected by pressing the UV button in the function console. The UV function is able to check all types of banknotes which contain UV features.

By default, the UV function is automatically turned on when the unit is powered up. If the machine detects a counterfeit bill, it will stop counting and emit beeping sound. The display will show the message "A" or "E10", alerting the user of the presence of a suspicious bill. Remove the counterfeit bill and press "RESTART" to continue counting.

MG (Magnetic) Detection Function (available for the model with both UV and MG detection)

The MG detection function is selected or deselected by pressing the MG button in the function console. The MG function is able to check all types of banknotes which contain MG features. The MG detection of some machines has 3 levels: MG1, MG2, MG3. Press the MG button to select MG1, MG2 or MG 3.

If the machine only has one middle big magnetic sensor:

MG1: suitable for counting banknotes which have low magnetic property

MG2: suitable for counting banknotes which have metal thread and high magnetic property

MG3: suitable for counting banknotes which have metal thread and higher magnetic property such as USD

If the machine has 2 small magnetic sensors at edge and one middle big magnetic sensor:

MG1: suitable for counting banknotes which have low magnetic property

MG2: suitable for counting banknotes which have metal thread and high magnetic property

MG3: suitable for counting banknotes which have metal thread and high magnetic property and edge also have magnetic property

By default, the MG function is automatically turned on when the unit is powered up. If the machine detects a counterfeit bill, it will stop counting and emit beeping sound. The display will show the message "b" or "E6X", alerting the user of the presence of a suspicious bill. Remove the suspicious bill and press "RESTART" to continue counting.

IR (Infrared) Detection Function

The IR detection function is selected or deselected by pressing the IR button in the function console. The real banknote and counterfeit banknote absorb the infrared signal in different degree. In general, the real banknote can absorb the infrared signal better than counterfeit banknotes.

The IR detection also is used to detect a double-note. If the machine detects a double-note, it will stop counting and emit beeping sound. The display will show the message "EC0" or "C", alerting the user of the presence of a suspicious bill. Remove the counterfeit bill and press "RESTART" to continue counting.

If the machine detects a counterfeit bill, it will stop counting and emit beeping sound. The batch display will show the message "E" or "E2X", alerting the user of the presence of a suspicious bill. Remove the counterfeit bill and press "RESTART" to continue counting.

Mix Value Counting Function

The mix value counting function can be selected or deselected by pressing the "MIX" button. Under this mode, the machine will show the total amount and total value after mix counting for different denomination of banknotes.

Sort Function

The sort function can be selected or deselected by pressing the "SORT" button. Regard the first banknote as standard, the machine can detect the other denomination or version which is different from the first banknote.

New Function

The new function can be selected or deselected by pressing the "NEW" button. Under this mode, the machine will only counting for new version of banknotes and detect old version banknotes.

For Indian Rupee, after pressing "NEW" button, the UV MG detection will be on and suitable for counting new version of Indian Rupee.

Old Function

The old function can be selected or deselected by pressing the "OLD" button. Under this mode, the machine will only counting for old version of banknotes and detect new version banknotes.

For Indian Rupee, after pressing "OLD" button, the MG detection will be off and suitable for counting old version of Indian Rupee.

CUR: Press "CUR" button to choose the currency you need to count

SET: Press "SET" button to enter setup and adjust sensitivity

CLEAR: Press "CLEAR" or "C" button to clear the counting or batch number

FUNC: Press "FUNC" button to choose MIX or SORT function



USD: Press "USD" button to count and detect USD

Automatic or Manual Start Mode Function

The machine begins counting automatically when banknotes are placed in the hopper. To control this action manually, please press the manual button. Under manual start mode, press "RESTART" button after banknotes are placed in the hopper.

Batch Function

The preset batch function can be selected or deselected by pressing the "Batch" button. The batch number is indicated on the batch display.

First Press: the batch number is 100

Second Press: the batch number is 50

Third Press: the batch number is 20

Fourth Press: the batch number is 10

Fifth Press: the batch number is 5

Sixth Press: the batch function is canceled.

The custom quantity can be set by pressing the "+" or "-" button to increase or decrease the batch number. If press the "+" or "-" button for about 2 seconds, the batch number can increase or decrease continuously. If the machine has number keys, you can set the batch number much more convenient. To clear this function, press the "BATCH" button until the indicator is off.

Under the batch counting mode, once the hopper is loaded, the machine will start counting and will stop when the counted quantity reaches the preset batch quantity.

To repeat the batch counting operation under the same preset batch quantity, just remove the counted bills from the stacker. The unit will batch the next group of bills under the same settings.

If you wish to keep batching without removing the bills from the stacker, press the "RESTART" button.

ADD Function

Addition can be performed by pressing the "ADD" button (indicator must light up). In this case, removing the counted bills from the stacker will not clear the quantity counted and shown on the screen. The next bills placed in the hopper will be counted and added to the previous counted quantity. The total amount of added bills will be shown on the counter screen. To close the function, press the "ADD" button (the indicator must be OFF).

Half-note Detection Function

The half-note detection is automatically turned on by default when the machine is powered up. If the machine detects a half-note when counting, it will stop and emit beeping sound, while the display will show the message "F" or "E4X", alerting the user the presence of a suspicious note. Remove the suspicious note and press "RESTART" button to continue counting. Please note that the suspicious bill will be added to the counted quantity.

Chained-note Detection Function

The chained-note detection is automatically turned on by default when the machine is powered up. If the machine detects a chained-note when counting, it will stop and emit beeping sound, while the display will show the message "d" or "E8X", alerting the user the presence of a suspicious note. Remove the suspicious note and press "RESTART" button to continue counting. Please note that the suspicious bill will be added to the counted quantity.

Double-note Detection Function

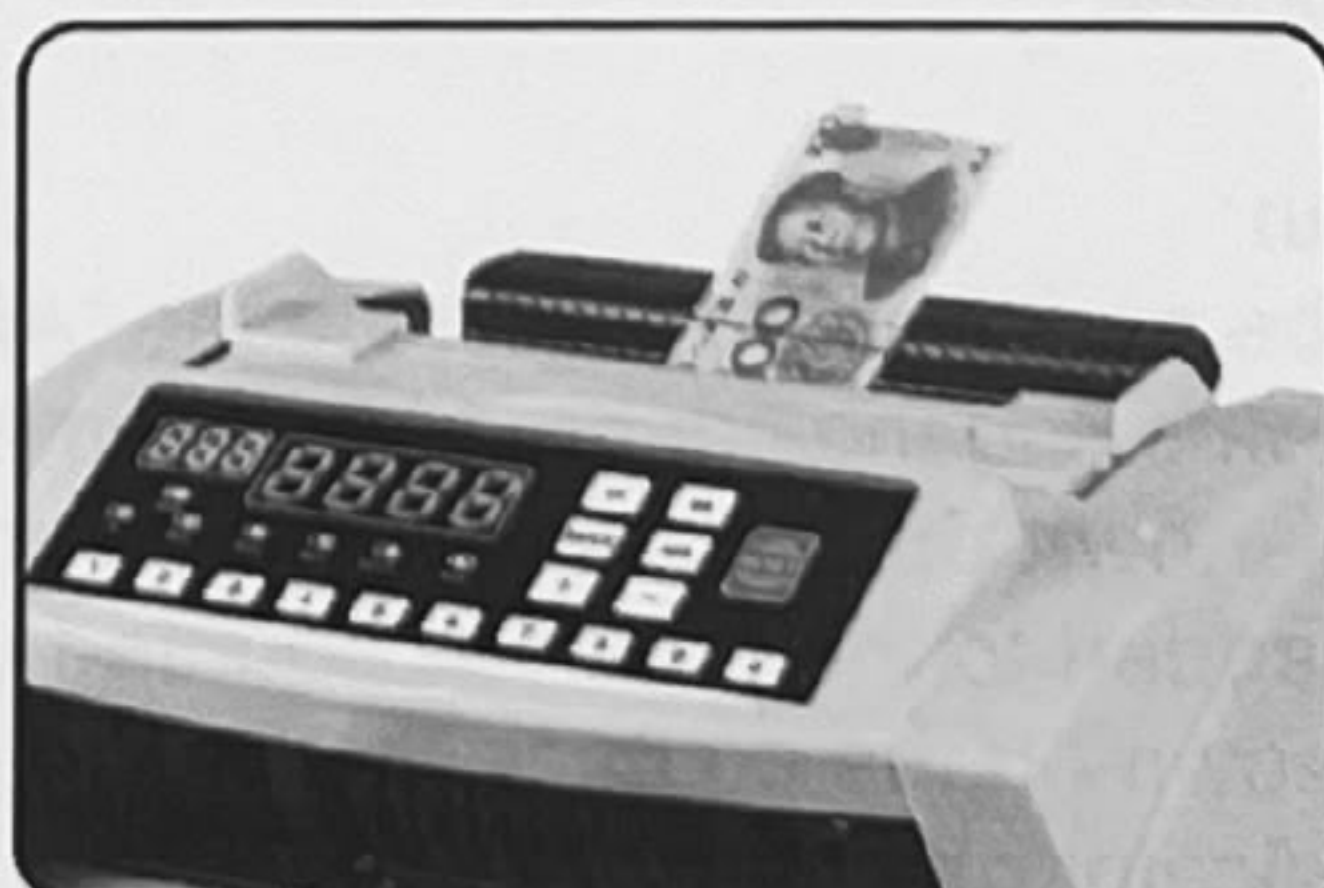
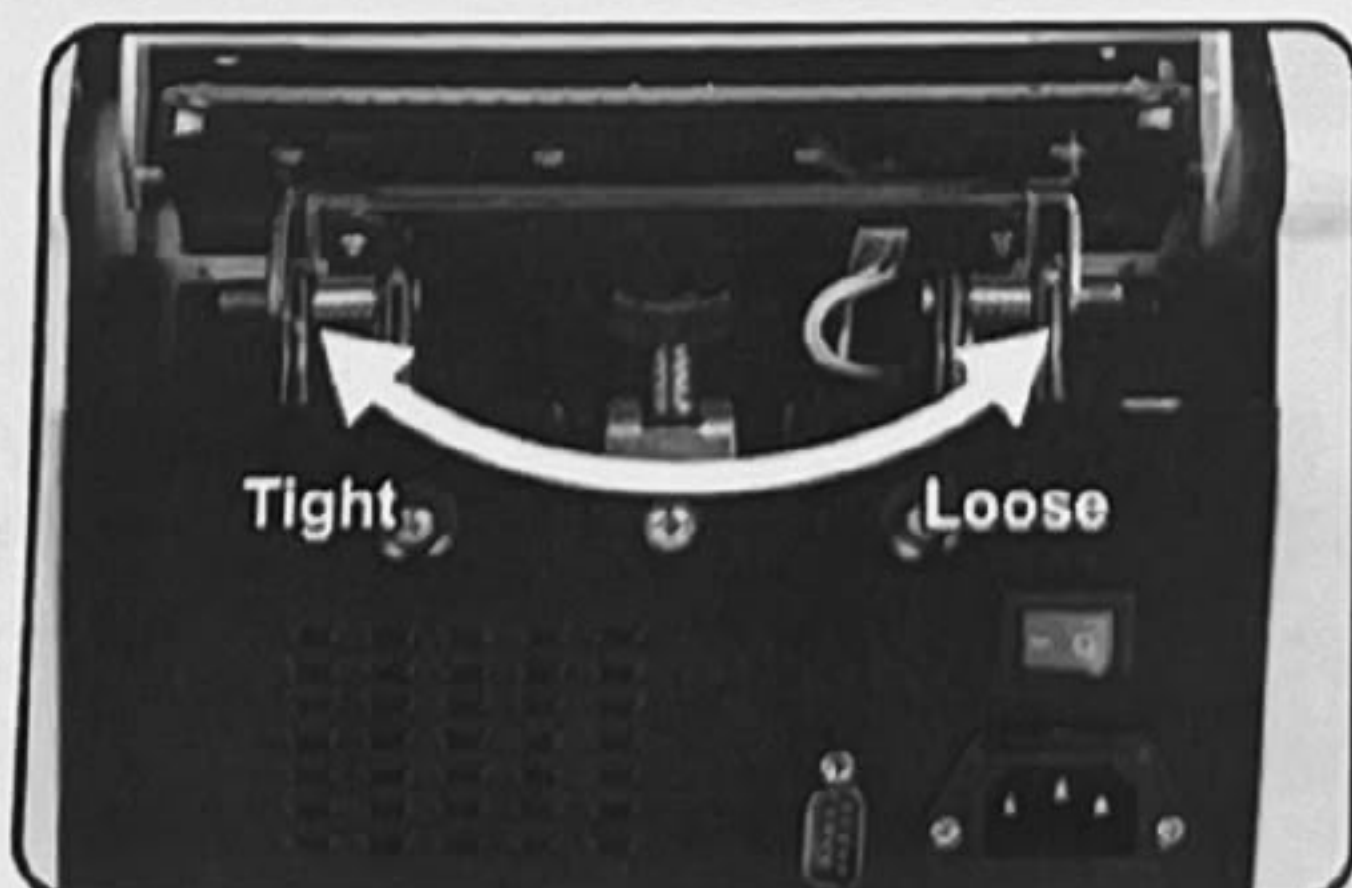
The double-note detection is automatically turned on by default when the machine is powered up. If the machine detects a double-note when counting, it will stop and emit beeping sound, while the display will show the message "C" or "EC0", alerting the user the presence of a suspicious note. Remove the suspicious note and press "RESTART" button to continue counting. Please note that the suspicious bill will be added to the counted quantity.

6. Hopper Plate Adjustment

When banknote feeding is unsmooth or banknote counting is inaccurate, it can be solved through adjusting the vertical adjusting screw as well as the gap between resistance rubber and rubber wheel. Then you can put in a banknote and hold, if you feel the pull, the machine is workable.

Turn it clockwise to decrease gap in order to add friction (tight).

Turn it anticlockwise to increase gap in order to reduce friction (loose).



7. Error Message and Solution

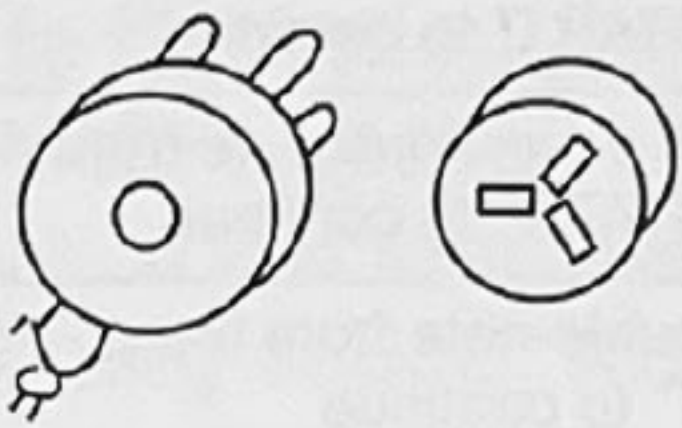
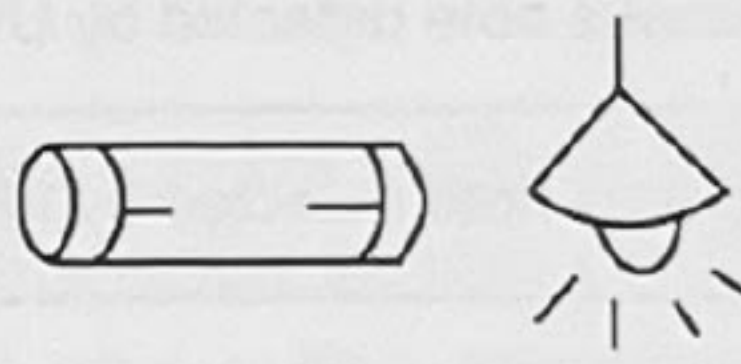
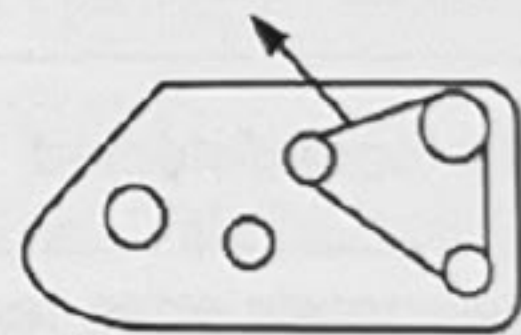
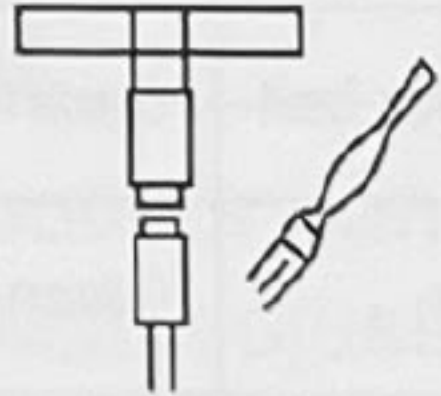
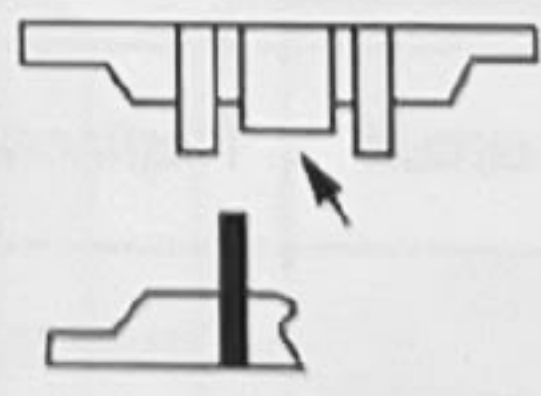
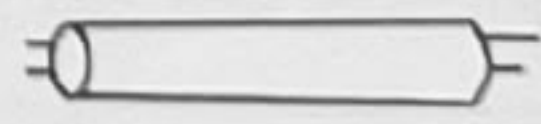
The batch display may show some error message when counting, which means there are some problems with the machine. Refer to the following sheet to find way to solve it.

Message	Error	Solution
A or E10	Suspicious note detected by UV	Remove the suspicious note from the stacker, press "RESTART" to continue
b or E6X	Suspicious note detected by MG	Remove the suspicious note from the stacker, press "RESTART" to continue
C or EC0	Double-note detected	Remove double-note from the stacker, press "RESTART" to continue
d or E8X	Chained-note or detected Banknote's width abnormal	Remove the chained-note or suspicious note from the stacker, press "RESTART" to continue
E or E2X	Suspicious note detected by IR	Remove the suspicious note from the stacker, press "RESTART" to continue
E3X	Banknote with sticky tape detected	Remove the suspicious note from the stacker, press "RESTART" to continue
F or E4X	Half-note detected	Remove the half-note from the stacker, press "RESTART" to continue
E5X	Banknote's edge magnetic property abnormal	Remove the suspicious note from the stacker, press "RESTART" to continue
E7X	Banknote's middle magnetic property distribution abnormal	Remove the suspicious note from the stacker, press "RESTART" to continue
CE1	Problem with the UV sensor	Clean the sensor or replace it
CE2	Problem with width sensor or conveyor belt	Clean the sensor or replace the belt
CE3	Problem with the left counting sensor	Clean the sensor or replace it
CE4	Problem with the right counting sensor	Clean the sensor or replace it
CE5	Problem with the auto-start sensor	Clean the sensor or replace it
CE6	Problem with small magnetic sensor circuit	Replace the small magnetic sensor
CE7	Problem with big magnetic sensor circuit	Replace the big magnetic sensor
CE8	Problem with stacker sensor	Clean the sensor or replace it

Generally speaking, most of the above mentioned problems may be caused by dust or dirt inside of the machine. So keeping the machine clean is highly recommended.

8. Common Troubles and Solution

Before maintain, please check the problems as below:
Note: before solve the problem, you must turn off power switch and unplug the outlet.

Not working		
Check if the plug is well inserted into socket. 	Check if the power fails or fuse burn out. 	
Fail to start or stop normally		
Feeding Sensor covered in dust? Clean 	Feeding sensor not in connection with electric circuit? Check and connect 	Transmission belt of the motor not proper in tension, too tight or loose Adjust well 
Counting Error		
Hopper position adjusted improperly?  Adjust well	Counting sensor covered in dust?  Clean	Drag rubber and feeding wheel worn too much?  Change
False Alarm		
Fluorescent sensitivity adjusted improperly?  Adjust well	Verifying sensor covered in dust?  Clean	Fluorescent lighting diode aged?  Change



9. Maintenance

- Do not operate the unit in areas with high temperature or high humidity since it may cause the machine refuse to work or prevent it from counting accurately.
- When not use the unit for a long period of time, remove the power plug from the wall outlet.
- Never operate the unit under strong light.
- Clean the machine frequently after switching off and unplugging of the machine.
- Do not use this product in areas where it maybe exposed to water or other liquids.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaner. Use a damp cloth for cleaning.

10. Specification

- Ambient Temperature: 0°C - 40°C
- Ambient Humidity: 25% - 80%
- Feeding System: Roller Friction System
- Hopper Capacity: 100 old bills or 200 new bills
- Stacker Capacity: 100 old bills or 200 new bills
- Counting Speed: 1000 pcs/minute
- Size of Countable Bills: 50mm x 110mm - 90mm x 180/190mm
- Thickness of Countable Bills: 0.075mm - 0.15mm
- Counting Display: 4 digits
- Batch Display: 3 digits
- Power Supply: AC220V±10% 50HZ AC110V±10% 60HZ
- Power Consumption: ≤80 Watts
- Net Weight: 5.6 kg (1pc)
- Gross Weight: 13 Kg (2pcs)

