Money 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.

CONTENT

1. General Introduction

- The money 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 money 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 banknotes 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 (optional)
3. Power cord	7. External display (optional)
4. Cleaning brush	8. Rubber roller (optional)

2. Important Safety Instructions

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

⚠ Warning	⚠ Caution
Do not use this product in areas where it may be exposed to water or other liquids.	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.
Unplug this product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.	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.
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.	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.
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.	When not using the unit for a long period of time, remove the power plug from the wall outlet.
Do not operate the unit in areas with high temperature or high humidity since it may prevent it from working correctly.	

3. Operation Method

- Connect the power cord to the machine, then to a power source and turn the power switch on; the machine will conduct a self-check by spinning the counting wheels several times. The counting number display will show "0" when the machine 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:
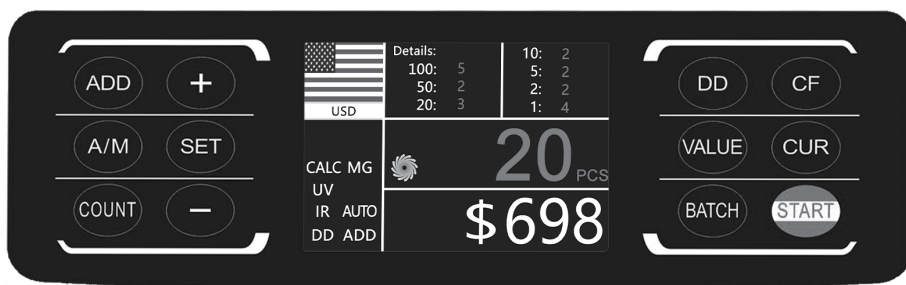
Method One:

Method Two:

5. Control Panel Introduction

CF (counterfeit detection): press it to turn off/on UV, MG, MT, IR detection.
ADD: press this button to turn on/off the ADD function.
CUR: press this button to choose currency.
0-9: press number buttons to set batch quantity and BATCH function will be on.

DD(width detection): press this button to turn on/off the DD detection. DD detection can sort the notes whose width is more than 5mm different from first note counted.

MNL: press this button to choose MANUAL or AUTO counting mode.

VALUE: press this button to enter manual value calculation mode mode.

Keep pressing this button to exit the mode. Meanwhile you can press ADD button to add up the total value.

"+" button: when in SET mode, press "+" once to add "1". If you keep pressing continuously, the parameter number will be added continuously.

SET: press this button to enter sensitivity adjustment of sensors.

"-" button: when in SET mode, press "-" once to reduce "1". If you keep pressing continuously, the parameter number will be reduced continuously.

BATCH: press this button to turn on/off the BATCH function.

C: press it to clear batch numbers and exit BATCH function

Restart: press this button to clear the counting number/Start counting in Manual mode

6. Functions Introduction

Counting Function
Once the banknotes are correctly placed in the hopper plate, the machine will start counting automatically. The number of counted banknotes will be shown on the counter display. If count again, the counter display will clear and the batch display in turn will show the number of last counted banknotes instead.

UV (Ultraviolet) Detection Function
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 money, it will stop counting and emit beeping sound. The display will show the message "E10" or "A", alerting the user of the presence of a suspicious money. Remove the counterfeit money and press "START" to continue counting.

MG (Magnetic) Detection Function
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.

By default, the MG function is automatically turned on when the unit is powered up. If the machine detects a counterfeit money, it will stop counting and emit beeping sound. The display will show the message "E7*" E6*" "E5*" or "b" , alerting the user of the presence of a suspicious money. Remove the suspicious money and press "START" 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 IR detection is used to detect double-note.

By default, the IR function is automatically turned on when the unit is powered up. If the machine detects a double-note, it will stop counting and emit beeping sound. The display will show the message "EC0" "E80" or "C", alerting the user of the presence of a suspicious money. Remove the counterfeit money and press "START" to continue counting.

DD Detection Function
The DD detection function is selected or deselected by pressing the DD button in the function console. The DD detection is used to detect the banknote with different width.

Through this function, the width of the first counted banknote will be memorized, and if a wider one or narrower one is detected (width difference must be more than 5mm), it will stop counting and emit beeping sound. The display will show the message "EDD" or "d", alerting the user of the presence of a suspicious money. Remove the counterfeit money and press "START" to continue counting.

Total Value Calculation Function
The Total Value Calculation function is selected or deselected by pressing the VALUE button in the function console. Keep Pressing VALUE button for 2 seconds to exit this function.

Through this function, the user need press VALUE button to choose denomination manually.
Under calculation function, the user can turn on ADD function if want to count many denominations, so user can press VALUE button to choose denomination accordingly and the total value will not clear. In this case, the next banknotes placed in the hopper will be counted and added to the previous total value.

Automatic or Manual Start Mode Function
Automatic Start Mode: The machine begins counting automatically when banknotes are placed in the hopper.
Manual Start Mode: Press "START" button to start counting after banknotes are placed in the hopper.

Batch Function
The batch function can be activated by press BATCH button. The batch number will show on batch display.

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 banknotes from the stacker. The machine will batch the next group of banknotes under the same settings.

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

ADD Function
Add function can be performed by pressing the "ADD" button (indicator must light up). In this case, the next banknotes placed in the hopper will be counted and added to the previous counted quantity. The total amount of added banknotes 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 "E41" or "F", alerting the user the presence of a suspicious note. Remove the suspicious note and press "START" button to continue counting. Please note that the suspicious money 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 "E80" or "d" , alerting the user the presence of a suspicious note. Remove the suspicious note and press "START" button to continue counting. Please note that the suspicious money 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 "EC0" "C" , alerting the user the presence of a suspicious note. Remove the suspicious note and press "START" button to continue counting. Please note that the suspicious money will be add to the counted quantity.

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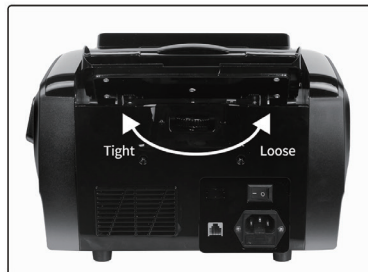
When banknote feeding is unsmooth or banknote counting is inaccurate, it can be solved through adjusting the vertical adjusting screw as well as the gap between resistance rubber and rubber wheel. Then you can put in a banknote and hold, if you feel the pull, the machine is workable.

Turn it clockwise to decrease gap in order to add friction (tight).
Turn it anticlockwise to increase gap in order to reduce friction (loose).

8. Error Code and Solution

The display may show error code when counting, which means there is problem with the machine. Refer to the following sheet to find way to solve it.
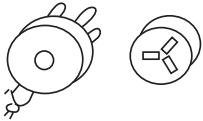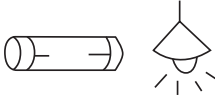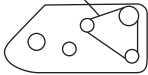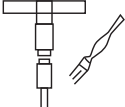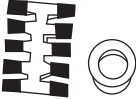
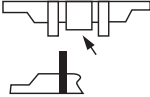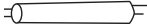| Error Code	Reason	Solution
E10 / A	Fake note detected by UV	Remove the fake note from the stacker, press "START" to continue
E7*/ E6*/E5*/b	Fake note detected by MG	Remove the fake note from the stacker, press "START" to continue
EC0/C	Double note detected by IR	Remove the double note from the stacker, press "START" to continue
E80/d	Chain note or different width note detected	Remove the suspicious note from the stacker, press "START" to continue
E4*/F	Half note detected	Remove the half note from the stacker, press "START" to continue
CE1	Problem with the UV sensor	Clean the sensor or replace it
CE2	Problem with code disc sensor or big motor	Replace the sensor or big motor
CE3	Problem with left counting sensor	Clean the sensor or replace it
CE4	Problem with right counting sensor	Clean the sensor or replace it
CE5	Problem with hopper sensor	Clean the sensor or replace it
CE7	Problem with MG sensor	Replace the MG 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.

9. Common Troubles and Solution

Before repair, 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

10. Machine Settings

UV MG Sensitivity Adjust:

UV sensitivity adjustment: press "SET" button for about 1.5 seconds, the display will show "E10" or "A---", then press "+" or "-" to decrease or increase the parameter.
UV sensitivity will be low while parameter is larger.
UV sensitivity will be high while parameter is lower

MG sensitivity adjustment:
press "SET" button for about 1.5 seconds, the display will show "E10" or "A---", continue to press "set" button until the display show "E64" and "E74", then press "+" or "-" or "MODE" or "CF" to decrease or increase the parameter.
MG sensitivity will be low while parameter is lower
MG sensitivity will be high while parameter is higher

NOTE: after you finish the setting, please put your finger on hopper sensor and the roller will run , then the setting will be save.

Fake Note Included or not Setting:
Turn on the machine, then keep pressing "0"&"BATCH"at the same time until display show "-C00", change it to "1" or "0", then put your finger on hopper sensor and the roller will run, the setting will be save.
C02:1 Fake note included
C02:0 Fake note excluded

11. 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.

12. Features and Specifications

Features:

Automatic start, stop and clear

Automatic detecting with UV(ultraviolet), MG(magnetic) while counting

Automatic half-note, chained-note detection

Double-note detecting with IR (infrared) detection system

With batch, add and self-examination function

LCD color change to red when detect fake note

Suitable for most currencies in the world

Specifications:

Ambient Temperature: 0°C - 40°C

Ambient Humidity: 25% - 80%

Feeding System: Roller Friction System

Hopper Capacity: 200 pcs

Stacker Capacity: 200 pcs

Size of countable note: 50*110-90*190mm

Thickness of Countable banknotes: 0.075mm - 0.15mm

Power Supply: AC110V±10% 60Hz

Power Consumption: ≤80 Watts