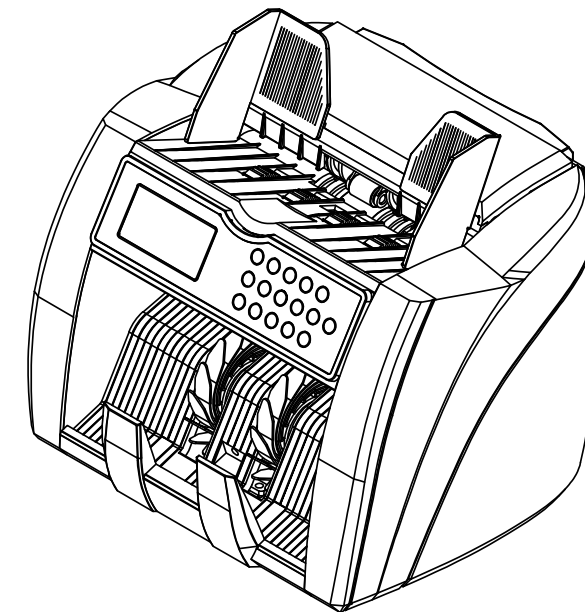


BILL COUNTER
OPERATION MANUAL

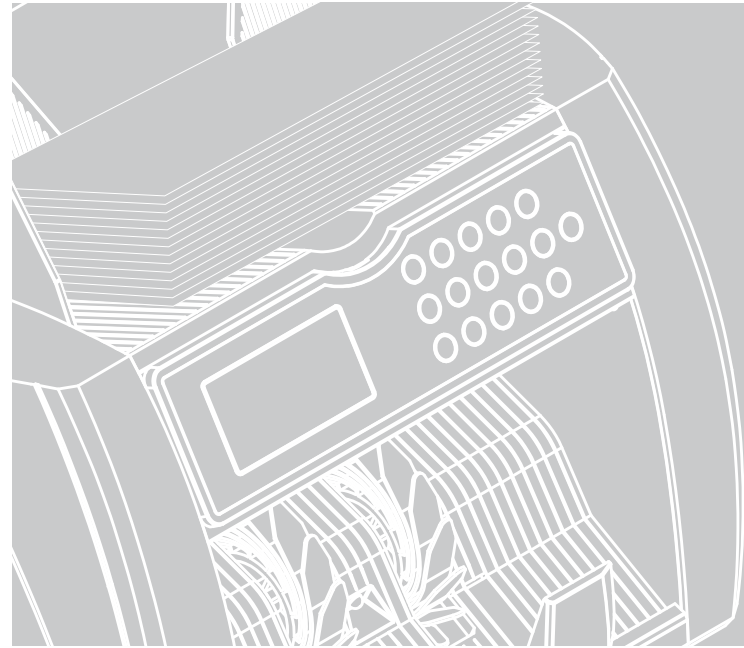
BILL COUNTER

OPERATION MANUAL

High Quality And
Leading Article In The
Bill Counter World



CONTENT

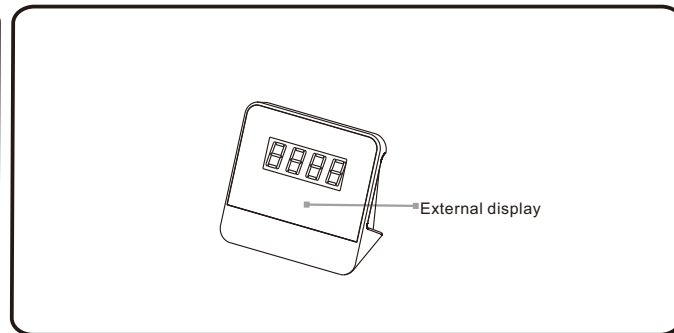
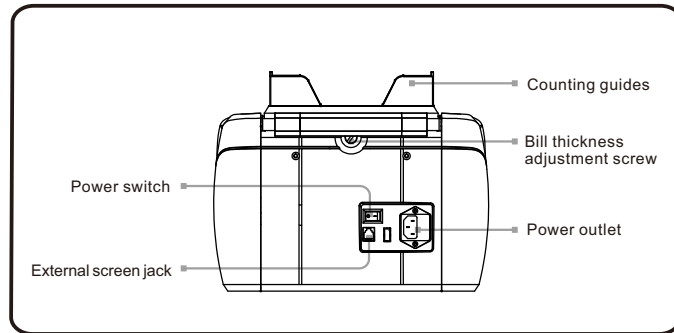
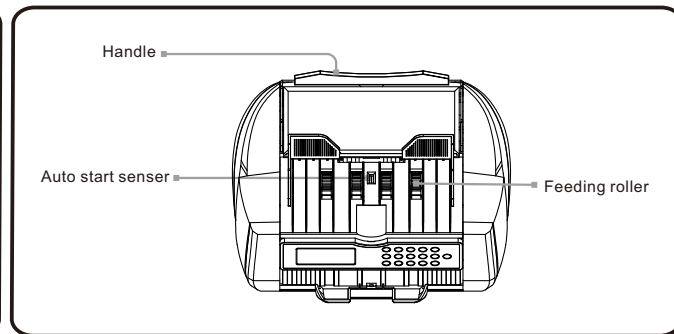
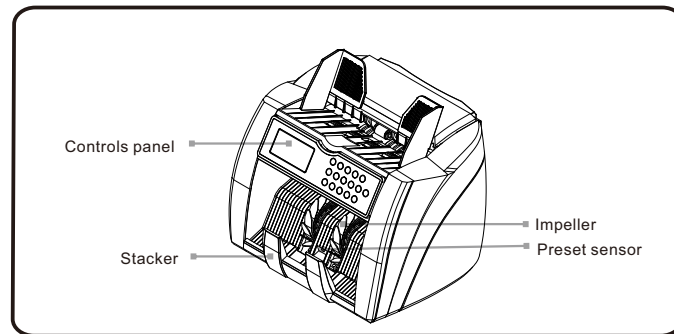


HIGH QUALITY AND LEADING ARTICLE
IN THE
BILL COUNTER

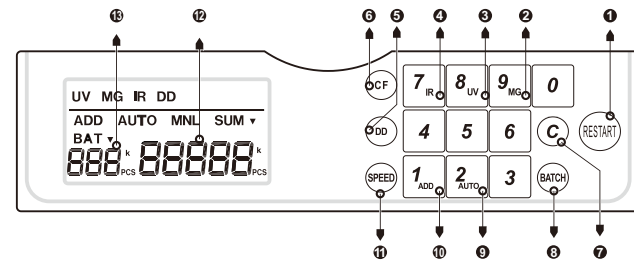
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1.Name and Brief Description of Main Parts



2.Operation Panel and Display



1. RESTART KEY

Used to start counting operation in the following Cases.

- To resume counting after an error is cleared.
- To clear the displayed counted number
- Press to start counting.

2. UV KEY

Press the CF key, then press this key, the machine will stop in case a counterfeit note is detected. Without UV or inconspicuous speciality.

3. MG KEY

Press the CF key, then press this key, the machine will stop in case a Counterfeit if note is detected. Without MG or inconspicuous speciality.

4. IR KEY

Press the CF key, then press this key, the machine will stop in case a chain note is detected.

5. DD KEY

By pressing this key, the size of the first counted note is memorized and in case a smaller or larger size note is detected, the machine will stop.

6. CF KEY

By press this key to turn on the counterfeit detect function.(press CF, then press the UV ,MG, IR ,DD to turn on or off this function you want.)

7. CLEAR KEY

Pressing this key to cleaning the displayed Batch Size.



2.Operation Panel and Display

8. BATCH KEY

Every time this key is pressed, one of the preset batch amounts 10, 20,25,50,100 and infinity will be displayed and selected by rotation on the Batch Number Display.

9. AUTO KEY

Press CF key, then press this key.Manual or Automatic Switching counting funtion.

10. ADD KEY

Press CF key, then press this key.Number of Accumulative funtion

11. SPEED KEY

Counting speed is selected .(1900,1200,1000,600 notes/min.)

12. COUNTED NUMBER DISPLAY

The number of counted notes is displayed here.

13. BATCH NUMBER DISPLAY

The optioned number of notes to be batched is display here.

3.Notes in Using Machine

To make the most use of this machine

- Avoid operation under direct sunlight.
- Don't press the operation-keys with a pointed tip of pencil or anything pointed.
- Don't make multi wiring from one socket.

To use this machine safely;

- Three-prong plug which can be grounded to the building ground should be used for power supply.
- Use the power cable attached to the machine as accessories.
- Unplug the machine before it is moved.
- Don't place tools, fingers ,hair, loose clothing, etc.near any moving part.
- Don't spill drink etc. on the machine.
- For maintenance, use specified parts;don't make improper maintenance.

4.how to Operate Machine

Counting Bank Notes

1).switch on the machine.

“0”will be display on the Counted Number Display.

When the lamp of the machine is set to the AUTO position, a proper threshold is set automatically.

< NOTE >

When dirty notes are mixed, do not use the AUTO positionas there is a possibility that the detection function does not work correctly. Put set notes at the centre of the Hopper. If they arelaterally shifted to the right or left greatly, there is possibility thatcorrect detection can not be assured.

2).Check the Addition Lamp and activate the ADD function

To add counted number one after another, press the ADD Key to activate the ADD function making the addition lamp lit.

3).Set the optional batch number.

Set the batch number by pressing the BATCH Key. Every time this is pressed, one of the preset values 10,20,25,50,100 or infinity will be displayed by rotation on the Batch Number Display.

Counting operation will stop when the counting number reaches the set batch number. Any optional batch number (1-999) other than the preset values can be set by pressing the Ten Keys Pad.



4. how to Operate Machine

4). Set the counting speed.

Set the counting speed by pressing the SPEED Key. Every time this key is pressed, one of the preset rates "600", "1000", "1200", "1900" notes/min will be displayed by rotation on the Counting Number Display.

5). Set a loose of bank notes to be counted in the Hopper.

Set notes to be counted in the Hopper and the machine will start counting automatically.

If a batch number has been set, the machine will stop when the batch number is reached. After the batched notes are removed from the stacker, the next counting operation will start automatically.

For reference

How to change batch number for each counting: press the RESTART KEY each time when batch number is changed for each batch counting. What is the "ADD function", When counting operation for a loose of notes placed in the Hopper is finished, the counting operation for the next bundle of notes will be started from "0" on the Counting Number Display. When counting operation is started in the ADD function, the counted numbers for succeeding bundle of notes will be added and displayed.

5. Different Dimensions Detect Function

Through this function the size of the first counted note is memorized and if a note whose size is different from the memorized value is detected, the machine will stop.. Setting of DD detect function.

1. Press the DD key to set the "DD detection function"(DD lamp will be lit.)

< NOTE >

Difference between note sizes of different dimensions is detected by checking the width of each note to be counted. The machine is set up so that it can detect notes of different dimensions when the size different is 5mm or more.

The size of dimensions can be adjusted. Press the "DD" Button for 3 seconds, the batch display will show the current size "DXX" then press the numeric Key to choose the desired size, (rang from 0-9). After choosing of the size, press "RESTART" button to confirm.

2. When the machine stop after detecting a different dimensions note, remove the detected one from the Stacker and press the RESTART KEY to restart counting.

Clearing the memory of a dimensions

* In case the Addition Lamp is not lit!

Remove the notes from the Stacker. The memorized value will be cleared when the number on the Counting number Display become "0"

* In case the Addition Lamp is lit!

Removed the notes from the Hoper and Stacker, and the press the "RESTART" KEY; memory will be cleared with the indication on the counting Number Display at "0".



5. Different Dimensions Detect Function

Activating the CF (counterfeit note) detect function

1. Press the CF key to activate the counterfeit note detection function. CF SET will be displayed on the display.

Pressing the detection method selection key on the numeric Key while CF SET is displayed makes the corresponding detection method effective and the corresponding LED light up. (UV. MG. IR. ADD. AUTO,)

2. When the machine stop through this function, remove the detected note from the Stacker and recount all the other notes in the Stacker.

3. Deactivating the function

Press the detection method selection key on the numeric Key again while CF SET is displayed makes the corresponding detection method ineffective the corresponding LED go out. Pressing the CF key again while CF SET is displayed makes all the detection methods ineffective.

< NOTE >

Check the removed suspected notes. If it is found be a genuine notes, return it to the stacker and press the RESTART KEY to continue counting.

UV (ultraviolet) detect function

*Available for the model with UV detection .

<Used to check most of banknotes which contain UV features.>

---When the machine stop and sound after detecting a counterfeit note, the display will show the message "A" and the UV indicator will blink (alerting the user the presence of a dubious bill), the dubious bill will always be the last one on the stacker. remove the detected note from the Stacker and recount all the other notes in the Stacker.

5. Different Dimensions Detect Function

---The sensitivity of UV detection can be adjusted. Press "UV" button for 3 seconds, The batch display will show the current sensitivity level "AXX" then press numeric Key to choose the desired sensitivity level (range from 0-9). After choosing of the level, press "RESTART" button to confirm.

MG (magnetic) detection function

*Available for the model with UV & MG detection.

<Used to check most of banknotes which contains MG features.>

---When the machine stop and sound after detecting a counterfeit note, the display will show the message "b" and the MG indicator will blink (alerting the user the presence of a dubious bill) the dubious bill will always be the last one on the stacker. remove the detected note from the Stacker and recount all the other notes in the Stacker.

---The sensitivity of MG detection can be adjusted. Press "MG" button for 3 seconds, The batch display will show the current sensitivity level "BXX" then press numeric Key to choose the desired sensitivity level (range from 0-9). After choosing of the level, press "RESTART" button to confirm.



5. Different Dimensions Detect Function

IR(infra-ed) detection function

*Available for the model with UV&MG&IR detection,

<Used to check most of banknote which contains UV&MG&IR features.>

---When the machine stop and sound after detecting a counterfeit note, the display will show the message“ db ”and the IR indicator will blink (alerting the user the presence of a dubious bill), the dubious bill will always be the last one on the stacker. remove the detected note from the Stacker and recount all the other notes in the Stacker.

---The sensitivity of IR detection can be adjusted. Press“IR”button for 3 seconds, The batch display will show the current sensitivity level“rXX”then press numeric Key to choose the desired sensitivity level (range from 0-9).

After choosing of the level, press “RESTART” button to confirm.

Double-notes detection function

<Used to check all kinds of banknotes with double notes problem.>

---By default, serving as a supplementary function, this detection can be activated when the units is powered up.---When the machine stop and the alarm sound after detecting a double-note bill,the display will show the message “Ed”(alerting the user the presence of a double-note bill).The double-note bill will always be the last one on the stacker. remove the detected note from the Stacker and press“RESTART”button to continue.

5. Different Dimensions Detect Function

Half-note detection function

<Used to check half-note of all the banknotes.>

---By default, serving as a supplementary function, this detection can be activated when the units is powered up.

---When the machine stop and the alarm sound after detecting a half- note bill, the display will show the message“EH”and the (alerting the user the presence of a half-note bill). the half-note bill will always be the last one on the stacker. remove the detected note from the Stacker and recount all the other notes in the Stacker, press“ RESTART”button to continue.

Chained-note detection function

<Used to check chained-note of all banknotes.>

---By default, serving as a supplementary function, this detection can be activated when the units is powered up.

---When the machine stop and alarm sound after detecting a half- note bill, the display will show the message“EC”and the (alerting the user the presence of a half-note bill). the chained-note will always be the last one on the stacker. remove the detected note from the Stacker and recount all the other notes in the stacker, press“ RESTART”button to continue.

< NOTE >

The following are applicable to all the counterfeit note detection function.



6. 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 diagram to find a way to solve it.

Message	Error	Solution
A0 (A)	Suspicious bill detected by UV system; Problem in the UV system	Remove the last bill from the stacker, press "RSTART" to continue; lower the UV sensitivity.
A1 (A)	Suspicious bill detected by UV system; Problem in the UV system	Remove the bill before last from the stacker, press "RSTART" to continue; lower the UV sensitivity.
b (b)	Suspicious bill detected by MG system; Problem in the MG system	Remove the suspicious bill from the stacker, press "RSTART" to continue; Lower the MG sensitivity
r (r)	Suspicious bill detected by IR system; Problem in the IR system	Remove the suspicious bill from the stacker, press "RSTART" to continue; Lower the IR sensitivity

7. Trouble shooting

When an error occurs, its corresponding error code is displayed on the Batch Number Display. Find the cause of error by the displayed error code and remove the cause according to the following procedure.

Error code	Type of error	Cause of error	Procedure for the removing the cause of the error
EJ (EJ)	Jam	A note is jammed in the machine	<ol style="list-style-type: none"> 1. Remove notes from in the Hopper 2. Set all the removed notes into the Hopper again. 3. Restart counting operation by pressing the "RSTART" key.
Ed (Ed)	Double note detection	Abnormal notes in mixed in the bundle of notes to be counted.	Check all the notes on the Hopper. then set them again Press the "RSTART" key to Start counting operation.
EH (EH)	Half note detection		
EC (EC)	Chained note detection		
St (St)	Note is in the Stacker	Note(s) is remains in the Stacker.	Remove the note(s) left in the stacker.



7. Trouble shooting

Error code	Type of error	Cause of error	Procedure for the removing the cause of the error
dd □	DD notes detection	Different size notes are mixed.	Check the last note in the Stacker.
		Abnormal notes are mixed	Check all notes in the Stacker, and then set them again.
dd †	DD notes detection	Different size notes are mixed.	Check the note before last in the stacker
		Abnormal notes are mixed	Check all the notes in the stacker, and then set them again.
ER3 (EA3)	Problem with speed sensor	Problem with speed sensor	Clean the sensor or replace it
ERr (EAr)	Problem with the right counting sensor	Problem with right counting sensor	Clean the sensor or replace it
ERl (EAl)	Problem with the left counting sensor	Problem with left counting sensor	Clean the sensor or replace it

< CAUTION >

In case that many "dd" errors happens, removed all notes from the Hopper and Stacker, and make sure the condition of notes (holes, tear, fold, etc.) Then align and set notes again.

8. Precautions for Handling of Machine

*** How to Put Bank Notes**

Precautions related to proper setting of bank notes to be counted

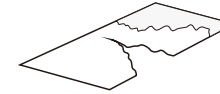
- Damp and/or badly stained notes should be avoided.
- Check that no foreign matter (piece of paper, paper clip, dust, etc.) is mixed in with bundle of notes
- Folded or curled notes should be straightened before they are set in the Hopper.
- For brick notes (bundle of new notes which are stuck to each other by ink). Bend and flex the stack before it is set on the Hopper.

*** How to align the notes to be counted.**

- Align the long and short edges of the notes by lightly tapping the stack; Insufficient alignment may cause an operation error

--Sensors are used for the counting system of this machine. As these sensors are of optical construction, the system may cause miscounting should dust, dirt, etc. stick to the sensors. Clean the sensors with an accessory brush when counting. Operation is finished.

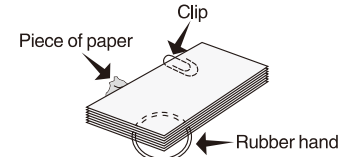
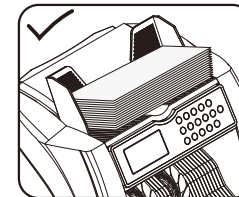
--piece of paper, dust and/or trash etc. accumulated in the Hopper and/or stack may be taken into the machine; this may cause a malfunction of the machine. Clean the Hopper and Stacker in the same way as above.



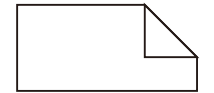
Damp and/or stained note



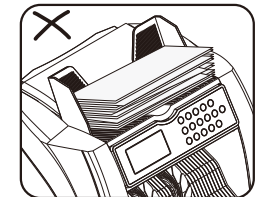
Curled note



Stack of notes mixed with clip or piece of paper or rubber hand



Folded note

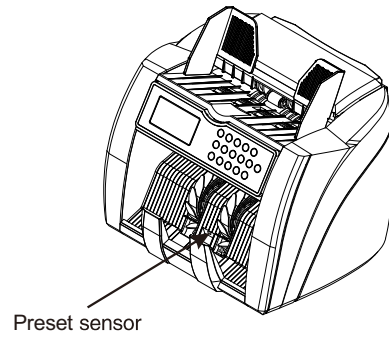
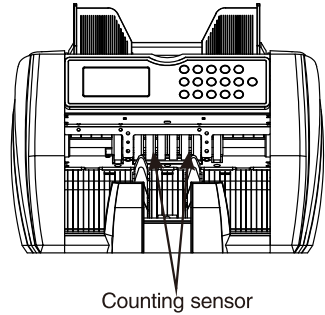




9. Daily cleaning of the machine

---Sensors are used for counting system of this machine. As these sensors are of optical construction, the system may cause miscounting should dust, dirt, etc. Stick to the sensors. Clean the sensors shown on the photo below with an accessory brush when counting operation is finished.

---Piece of paper, dust and/or trash etc. Accumulated in the Hopper and/or stacker may be taken into the machine; this may cause a malfunction of the machine. Clean the Hopper and Stacker in the same way as above.



10. Specifications

- * **Dimensions**····· 298mm×248mm×249mm
- * **Net Weight**····· 4.9kgs/pc
- * **Gross Weight**····· 6.1kgs/pc
- * **Size of countable note**·····50mm×110mm ~90mm×190mm
- * **Counting speed**·····1900, 1200, 1000, 600 pcs/min.
(Four step system)
- * **Feed system**·····Roller friction system
- * **Hopper capacity**·····300 sheets
- * **Stacker capacity**·····200 sheets
- * **Counting number display**·····5 Digital LCD
- * **Power source**·····AC100~240V 50/60Hz
- * **Power consumption**·····60W(max)

11. Caution

- * Clean the machine after turn off the power switch.
- * Do not use chemical for cleaning the machine.