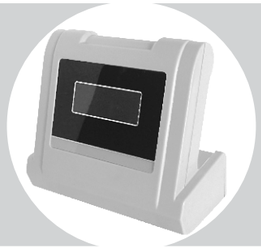
LCD Display

LED Display

OPERATION MANUAL



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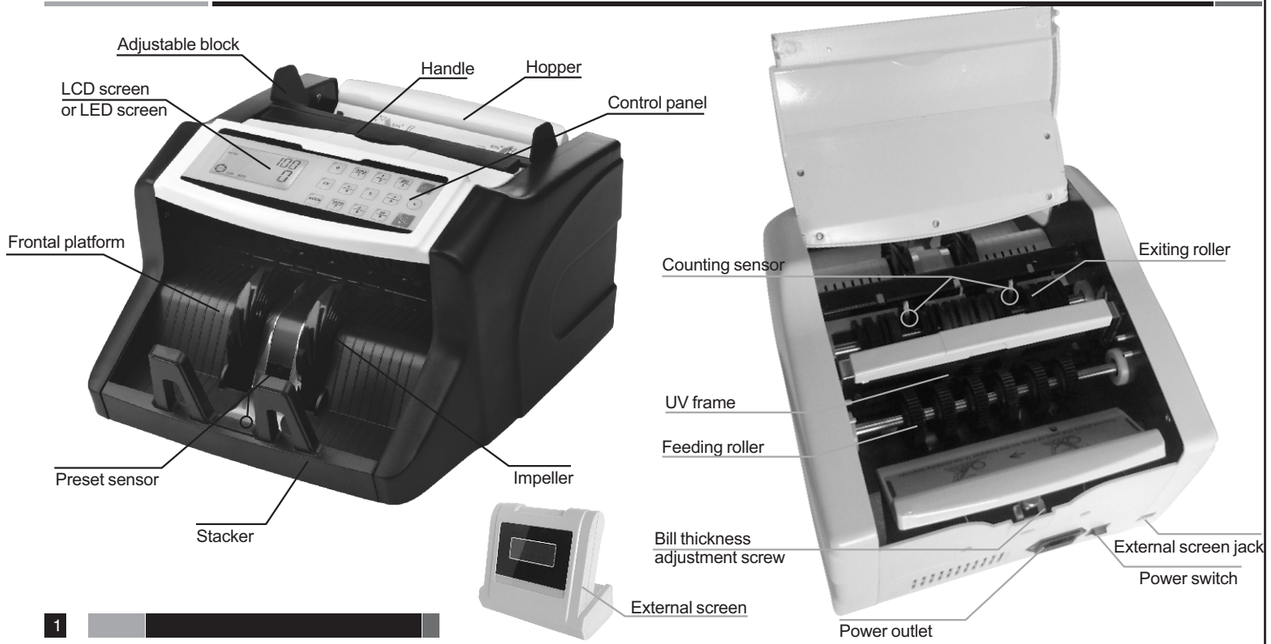
1. Illustration



Fully Automatic
money counter
Suitable for both new,old,dirty,tattered polymer bills and paper bills

2.General instruction

On the basis of all our former models of banknote counter, we designed and developed this new unique model.
It concentrates on all the advantages which the former models of banknote counter adopts and meanwhile develops more other advantages of its own kind.

We recommend the user to verify the gift box contains all of the items listed here:
1. machine body 2. operation manual 3. belt
4. fuse 5.brush 6.plug
7. external display

3.Safety instructions

--Read and understand all of the instructions and warnings both on the machine and manual.
--Follow all warnings and instructions marked on the unit.
--This product should be operated only from the type of the power source indicated in the user's guide. If you are not sure of the type of power supply in your location, consult your dealer or local power company.
--Only use the cable provided with the unit. The use of other cable may result in electric shock, fire or cause serious damage to the unit.
--Never push objects of any kind into the unit through case slots, since they may touch dangerous voltage points or shortcut parts, resulting in a risk of fire or electric shock.
--Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
a.When the power supply cord or plug is damaged or frayed.
b.If the liquid has been spilled into the unit.
c.If the unit has been exposed to rain or water.
d.If the machine has been dropped or the case has been damaged.
e.If the product shows a noticeable change in performance.
--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 may expose you to dangerous voltages or other risks. Incorrect reassembly can cause electric shock when the appliance is subsequently used.
--Do not use the unit if the power cord is damaged or if the plug socket contact is loose. Don't follow these instructions may occur in electric shock , fire or other hazards.
--When unplugging the power plug, do not pull it by the cord but rather grip the plug and pull it out, don't follow those instruction may occur electric shock, fire or damage to the unit.

4.Power up

Connect the power cord to the machine (power outlet), then plug it to power source and turn the switch on; the unit will conduct a self-check by spanning the feeding roller while the MG and/or UV IR functions will be automatically turned on by default. The counting display will show "0" when the unit is ready <the machine is in its normal working condition>.

5.Counting function

1>Counting Function

-Once the bills are correctly placed in the hopper, the machine will start counting automatically (except in the manual counting mode). The number of counted bills will be shown on the counting display. Moreover, once the bills are removed from the stacker, the counting display will be clear and the batch display in turn will show the number of counted bills

Instead.
-Bills should be correctly placed as indicated in the following steps: Place the bills between the counting guides as shown in the figure 1, then push the bills backward to make them lay on the top of the hopper plate, in the correct counting position as shown in the figure 2.

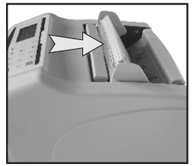


Figure 1. Put the bills by this direction

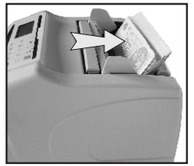


Figure 2. Push the bills backward.

< NOTE >

The counting mode can be changed between Automatic and Manual. Press the "AUTO" button, if the batch display shows "AUTO" the machine is in automatic counting mode; If without the "AUTO" shown in the display, the machine is in manual counting mode, under this manual mode, press the "RESET" button after placing the bills to start counting.

2>Addition Function

Addition function can be performed by pressing the "ADD" button (the ADD indicator will appear). In this case, removing the counted bills from the stack will not clear the quantity counted and shown on the counting display. The next bills placed in the hopper will be counted and added to the preceding quantity. The total amount of added bills will be shown on the counting screen. Press the "ADD" button to close the function and clear the counting display.

3>Batch Function

--The preset batch function can be performed by pressing the "BATCH" button (the BATCH indicator will appear). By default, when pressing the "BATCH" button, the batch function is turn on. The batch number can be set in amounts between 1and 999 by pressing No. "1" – "9" button. 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 stop when the counted quantity reaches the preset batch one.
--To repeat the batch counting operation under the same preset batch quantity, just remove the counted bill 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 preset number, press the "RESET" button.
--If the counted number does not equal with the preset batch number, the counter display will show the quantity with blinking number.
--When counting with MG and/or UV detection on, the machine will stop automatically when detecting counterfeit currency. This function can be resumed by removing the dubious bill from the stacker and pressing "RESET" button.

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6.Counterfeit Detection

<UV(Ultraviolet) detection function <available for the model with UV detection or the model with both UV and MG/MT detections>
---used to check all kinds of banknotes which contains UV features.

--The UV function is automatically turned on by default when the machine is powered up. It can also be selected or deselected by pressing the "CF" button located in the function console.
--If the machine detects a counterfeit note when counting, it will stop and emit beeping sound, while the batch display will show the message "d1" and the UV indicator will blink (alerting the user of the presence of a dubious bill). The dubious bill will always be the last one on the stacker. Remove the dubious bill, press "RESET" button to continue.
--The sensitivity of UV detection can be adjusted. Hold "SET" button for 3 seconds, the batch display will show the current sensitivity level "AXX" ,then keep press " ↑ " " ↓ " button to choose the desired sensitivity level (range from 0-9). After choosing the level, press "RESET" button to confirm/save. Do not change other unmentioned settings, changing other setting may cause improper working condition.
--The bigger number means the higher sensitivity you set and "0" means deactivate this detection function.

<MG (Magnetic)/MT(Magnetic thread) detection function <available for the the models with both UV and MG/MT detections>
---used to check all kinds of banknotes which contains the mentioned features.

--The MG/MT function is automatically turned on by default when the machine is powered up. It can also be selected or deselected by pressing the "CF" button located in the function console.
--If the machine detects a counterfeit note when counting, it will stop and emit beeping sound, while the batch display will show the message "d2" and the MG/MT 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 dubious bill, press "RESET" button to continue.
--The sensitivity of MG detection can be adjusted. Hold "+" or "CF" button for 3 seconds, then press "SET" until the batch display will show the current sensitivity level "BXX" ,press " ↑ " " ↓ " button to choose the desired sensitivity level (range from 0-9). After choosing the level, press "RESET" button to confirm save. Do not change other unmentioned settings, changing other setting may cause improper working condition.
--The bigger number means the higher sensitivity you set and "0" means deactivate this detection function.
--The UV and MG/MT detection can be used at the same time while counting to multiply the chances of detecting a counterfeit bill. By default, the UV and MG/MT detection functions are automatically turn on when the unit is powered up. Those functions can also be selected or deselected by pressing "CF" buttons.

<IR (Infrared) Detection Function <available for the models with UV detection or the model with both UV and MG/MT detection>
---used to check all kinds of banknotes which with size problem.

--By default, serving as a supplementary function, the IR detection can be activated when the unit is powered up.
--The sensitivity of IR detection can be adjusted. Hold "SET" button for 3 seconds, the batch display will show the current sensitivity level

"CXX" then press "↑" "↓" buttons to choose the desired Sensitivity level (range from 0-10). After choosing of the level, press "RESET" button to confirm.

***<Double Detection function** <available for the models with UV detection or the model with both UV and MG/MT detection>.*
---used to check a double-note

--By default, serving as a supplementary function, the detection can be activated when the unit is powered up.
--If the machine detects a double-note when counting, it will stop and emit beeping sound, while the batch display will show the message "d3" (alerting the user the of the presence of a double-note). The double-note will always be the last one on the stacker. Remove the dubious bill, press "RESET" button to continue.

***<Half-note Detection**<available for the models with UV detection or the model with both UV and MG/MT detection>.*
---used to check half-note.

--By default, serving as a supplementary function, the half-note detection can be activated when the unit is powered up.
--If the machine detects a half-note when counting, it will stop and emit beeping sound, while the batch display will show the message "d5" alerting the user the presence of a half-note bill). The dubious bill will always be the last one on the stacker. Remove the dubious bill, press "RESET" button to continue<the counting display will clear>.

CAUTION:

1.It is highly recommended to contact the authorized service center or local dealer before you do the above adjustments.

2.Improper adjustments may cause improper working condition or false detection results.

7.Fake money alarm

When fake money pass the machine, the counting will stop and alarm. The function display will show the error code. The last note on the stacker normally is the fake money. The machine counting quantity number is not included in this note. remove the fake money. Press "RESET" button, the machine will start counting again.

** Fake money or questionable money*

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8.Error code and solution

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

Message	Error	Solution
d1	*Suspicious bill detected by UV system; Problem in the UV system.*	*Remove the suspicious bill on the stacker, press "RESET" to continue; Lower the UV sensitivity.*
d2	*Suspicious bill detected by MG/MT system; Problem in the MG/MT system.*	*Remove the suspicious bill on the stacker,press "RESET" to continue; Lower the MG/MT sensitivity.*
d3	*Double-note detected by IR system; Problem in the IR system.*	*Remove the suspicious bill on the stacker, press "RESET" to continue; Lower the IR sensitivity.*
d4	*Note of size problem detected by size detection system; Problem in the size detection system.*	*Remove the suspicious bill on the stacker, press "RESET" to continue; Lower the size checking sensitivity.*
d5	*Half-note detected by half-note detection system; Problem in the half-note detection system.*	*Remove the suspicious bill on the stacker, press "RESET" to continue.*
d6	*Slope-note detected by slope-note detection system; Problem in the slope-note detection system*	*Remove the bill from the stacker. Press "RESET" to continue.*
d7	*Chain-note detected by chain-note detection system; Problem in the chain-note detection system*	*Remove the bill from the stacker. Press "RESET" to continue.*
E-0	*Problem with the left counting sensor.*	*Clean the sensor or replace it.*
E-1	*Problem with the right counting sensor.*	*Clean the sensor or replace it.*
E-2	*Problem with the preset sensor*	*Clean the sensor or replace it*
E-3	*Problem with the speed sensor*	*Clean the sensor or replace it*
E-4	*Problem with the MG head*	*Replace the MG head*

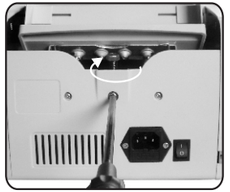
< NOTE >

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.Hopper adjustment

--When improper feeding of bills occur, adjust the feeding thickness setting in the hopper by turning the adjustor screw located in the back of the machine to ensure proper feeding.

<Figure 1>


<Figure 2>

<Figure 3>

<Figure 4>

Steps:

1. Loosen the protector screw (using a screwdriver) as shown in figure 1

2.Turning clockwise the adjustor screw to tighten the feeding hopper, shown in figure 2.

3.Turning counter clockwise the adjustor screw to loosen the feeding hopper, shown in figure 3.

4.After adjusting the correct level and counting performance is normal, tighten the protector screw (using a screwdriver), shown in figure 4.

When adjusting the bill thickness adjustor screw does not solve the problem of improper bill feeding, you may need further help by.authorized service center.

Hand-hold a note. Put it inside the counting roller and resistant rubber. (see the picture).
To test the tensile force. Clockwise direction is tighten, counter-clockwise direction is loosing.

▪ *Tensile force test.*

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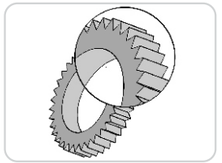
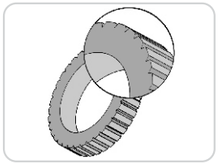
10.Counting roller replacement

When the counting roller damaged, it will cause counting not fluently or correct. Open the top cover, loosing the screw of roller axis machine. Replaced old roller. Then fix the machine inside.


▪ *New roller*


▪ *Old roller*

11.Maintenance

-Do not operate the unit in areas with high temperature or high humidity since it may damage the machine.
-When not using 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 may be 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 brush or a damp cloth for cleaning.

12.Specification

Dimension:	*312mmX 25mmX 182mm*
Banknote Size:	*Min50 x 100, Max: 80 x 190mm*
Net Weight:	*5.3kgs*
Gross Weight:	*6.5kgs*
Counting Speed:	*＞1100pcs/min*
Batch Range:	*1-100*
Counting Display:	*LCD display or LED display*
Power Supply:	*AC 220V / 50Hz, 120V/60Hz or DC85-250V*
Power Consumption:	*⩽70W*

13.Special function

1.This model is with 190mm adjustable hopper to secure the counting
2.With chargeable battery (Optional)
3.With low/mid/high 3 counting speed level (Optional)