Currency Counter BC-55 User Manual





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1. Machine Overview 1.1 Safety Instruction

This product is used for counting banknotes. Our company does not assume any responsibility for any loss arising from the application of this product for any purpose other than the above without our company's permission, and for any loss caused by any modification of this product not by our company or by any agents not authorized by our company. If you need to install or transport this product, please consult your local agent to reduce (avoid) product damage due to installation errors or transportation shocks.

Please read this manual carefully before using, so as to operate the product accurately. Please contact your local agent if you encounter any problem.

We reserve the right to change the contents of this instruction manual at any time without notice.

NOTE:

- This product is used for counting banknotes described in the specification. Please do not use this product for any other purposes.
- This product is only used in corresponding countries or regions and may not be used in other countries or regions due to the difference between power supply specifications and safety standards.
- Please understand that the contents of this manual are subject to change without prior notice.
- The appearance and technical specifications of this product are subject to change without prior notice. Therefore, the actual product may be different from the instructions in this manual.
- This product may not be changed or modified in any form without the explicit written authorization of our company.
- Please contact your nearest sales store or our designated distributor if you need to install this product.
- This machine is specially designed for indoor use. Please do not install or use it outdoors.
- Please do not install it in places that cannot bear the weight of this product or in places that are inclined or uneven.
- Do not use or place combustible materials, inflammables and volatile items such as thinners around/inside this product.
- Do not bend the power cord excessively, or place heavy or sharp objects on top of the machine.

- Do not use this product in an excessively humid environment.
- Please avoid strong light and strong magnetic field interference.
- When the machine is not in use, please turn off the machine switch. Prevent curtains and various entangled materials from getting caught in the machine.
- When cleaning the machine, turn off the machine switch.

1.2 Installation Instruction

As shown in the Figure 1, please stay away from the surrounding walls and reserve sufficient operation space for placement of banknotes, opening or closing of the cover plate, as well as for maintenance.

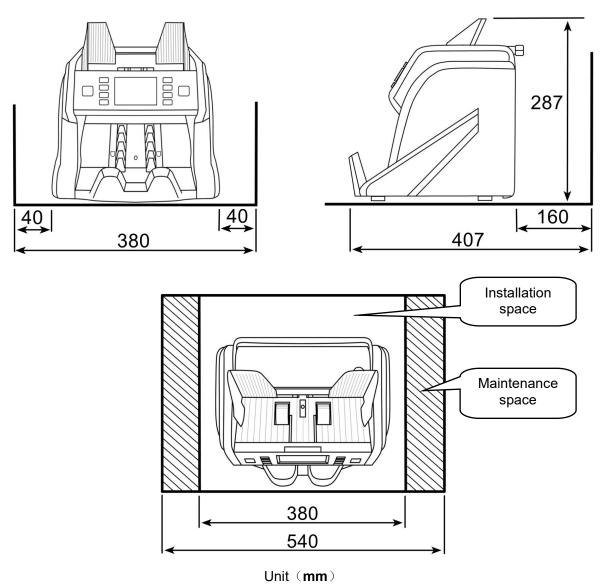
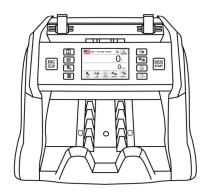


Figure 1

1.3 Machine & Accessories



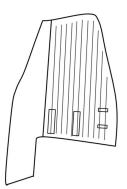
Machine



Dust cover



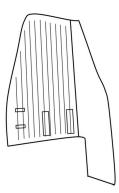
Warranty card



Note guider(left)



User manual



Right guider(right)



Simple manual



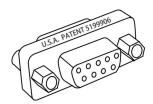
Manual for printer cable



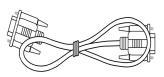
Clean brush



Power cable



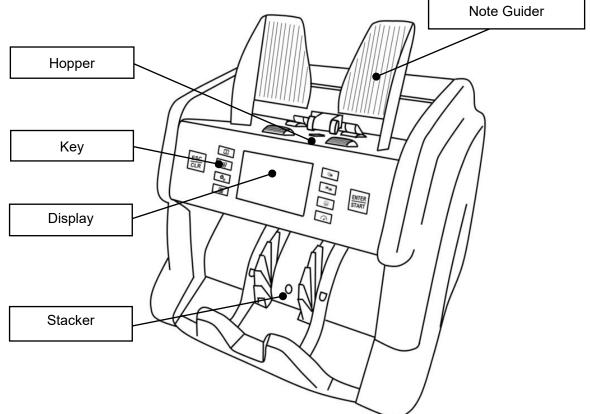
DB9 adaptor



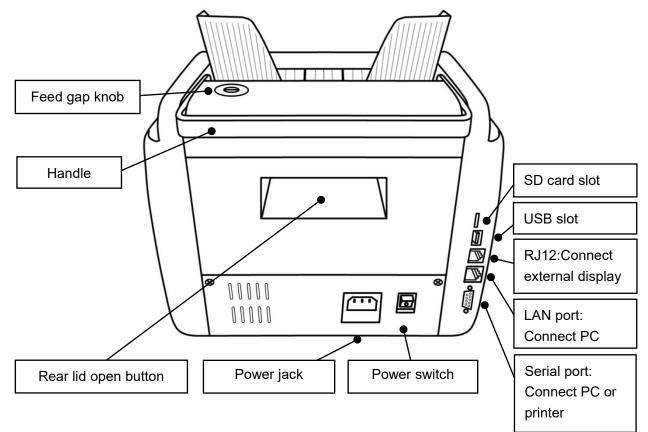
DB9 cable

1.4 Appearance

1.4.1 Front Appearance



1.4.2 Back Appearance



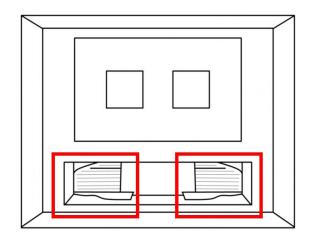
1.5 Technical Parameters

Overall dimensions (L×W×H)	300mm×247mm×287mm	
Weight	About 7KG	
Capacity of banknote inlet	600	
Capacity of banknote receiving port	200	
Display	3.5 inch TFT touch screen	
Interface	RS-232/LAN/RJ12/SD/USB	
Currency support capacity	the standard software includes 5 currencies, if you need	
Currency support capacity	more currencies, please call us or contact us by email.	
Countable Nata Cine	Length: 100mm~180mm	
Countable Note Size	Width: 50mm~90mm	
Countable Note thickness	0.05mm~0.12mm	
	800/1000/1200pcs/min (MIX , SDC mode)	
Counting speed	800/1000/1200/1500pcs/min (CNT mode)	
Counting mode	MIX, SDC, CNT	
Batch number	0~200	
Counterfeit detection function	UV/MG/MT/IR	
Power requirement	AC 220V-240V 50Hz/60Hz ±10%	
Noise during operation	60-75DB	
	≤15W standby	
Power consumption	≤50W operation	
11	Ambient temperature (0~40°C)/humidity (40~90%)	
Use environment	Air pressure (70-106kpa)	
Otomo en cincome en t	Ambient temperature (-40~55°C)/humidity (10~95%)	
Storage environment	Air pressure (70-106kpa)	

1.6 Start-up

Reminder: To ensure smooth counting please install the left and right Note Guider in the box. Please

check below Figure 2.





1) Take out the left Note Guider, install the click into the rail of the Note Guider, and press the Note Guider until you hear a clicking sound, it means the Note Guider is installed in position, as shown in the Figure 3.

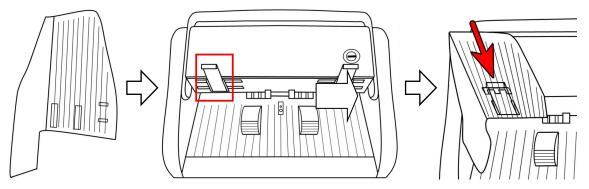


Figure 3

2) Then take out the right Note Guider, intall it in the same way. After you finish both, the machine looks like this:

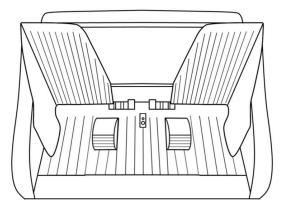


Figure 4

3) Connect the machine to the power supply and turn on the power switch. First, the machine enters the loading interface. After loading, the machine enters the self-check interface, as shown in Figure 5 below. The machine will enter the main interface after self-checking succeeds, as shown in Figure 6 below:

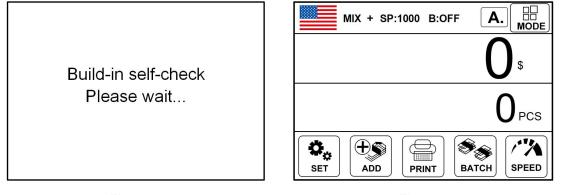


Figure 5



1.7 Notes Placement

1) Please put the handle of the machine on the back of the machine first.

2) The banknotes to be counted should be sorted according to size and then put into the hopper. The banknotes counted should be pre-arranged and straightened out when they encounter, folds, and arches, which can increase the one-time pass rate.

3) During the banknote counting process, the note guider should be limited according to the maximum size of currently counted notes to ensure that the banknotes can be accurately identified by the relevant sensors. Taking US dollars as an example, please arrange the banknotes first, and then limit the note guider according to the largest size banknote. Finally, put the banknotes into the hopper and start counting, as shown in Figure 7:

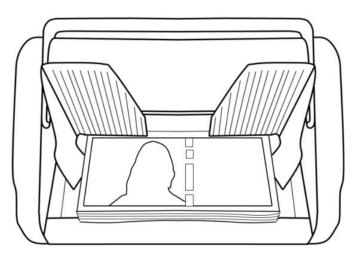


Figure 7

1.8 Counting error code

Error reporting code	Reason for error	
51	White light image, image denomination not recognized	
151-159	Infrared images, each code represents a counterfeit detection point with inconsistent characteristics	
202	Ultraviolet emission abnormal	
203	Ultraviolet projection abnormal	
351	Big magnetic number (BM)	
463	Inconsistent edge magnetic characteristics (number)	
471-482	Magnetic image abnormal, divided according to the magnetic head in which abnormal signals appear	
501	Serial number error	
551, 555	Reject (tilt)	
552	Reject (damage)	
553, 556	Reject (chained)	
554	Reject (incompletion)	
557	Reject (sticked)	
901	Different denominations, different from the first denomination	

2. Function Introduction

2.1 Function Introduction

2.1.1 Display Interface and Touch Screen Description

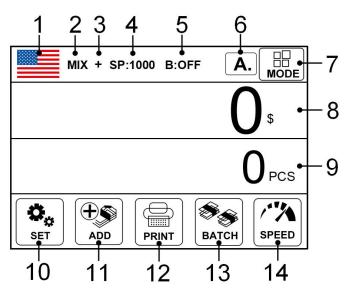
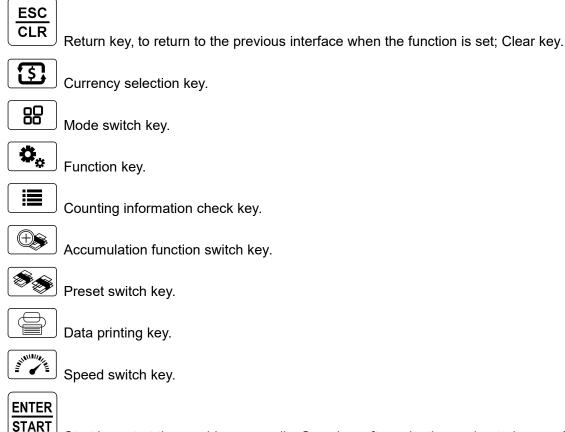


Figure 8

- 1. Currently selected currency and currency selection key
- 2. Counting mode
- 3. Accumulation
- 4. Counting speed
- 5. Preset quantity
- 6. Automatic/manual mode
- 7. Counting mode switch
- 8. Counting amount
- 9. Number of banknotes counted
- 10. Function key
- 11. Accumulative function key
- 12. Print key
- 13. Batch key
- 14. Speed switch key

2.1.2 Operating Instructions for Function Keys



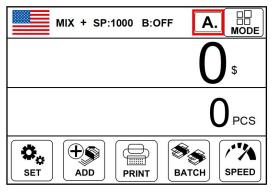
Start key, start the machine manually; Save key after selecting and entering, confirming or modifying the function.

2.1.3 Manual/Automatic Setting

The "**A**," key in the upper right corner of the display is the manual/automatic switch key. Touch it and the mode will be changed.

Automatic mode: the word "**A**," will appear in the upper right corner. The machine will count the banknotes automatically when they are put into the banknote hopper, as shown in Figure 9.

Manual mode: the words "**M**." will appear in the upper right corner. Put the banknotes into the banknote hopper, after pressing START key, the machine will count the banknotes.





2.1.4 Selection of Counting Mode

2.1.4.1 Single Currency Counting Mode

The currencies of different countries can be selected by pressing the "

plate or touching the "flag pattern in the upper left corner of the display, as shown in Figure 10 below:

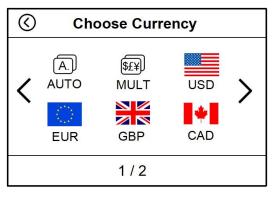


Figure 10

Take US dollars as an example. After the touch of " key, the display returns to the main interface, and the top left corner displays the " flag graphic, indicating that the machine is in the mode of counting US dollars.

By pressing the key " " of the keypad or touching the key " " on the upper right corner of the display screen, three counting modes can be cyclically switched, and the three counting modes will be cyclically switched according to the **MIX-CNT-SDC** sequence.

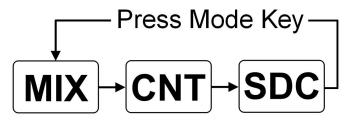


Figure 11

2.1.4.1.1 <MIX> Mix Counting Mode

The following Figure 12 and Figure 13 shows the interface of the machine in MIX Counting Mode. In this mode, the machine will count the banknotes of all denominations of US dollars, and count and save the detailed information of the counted banknotes at the same time, including the total amount and the total number of banknotes in stacker, so as to facilitate users to check. In this mode, the machine has three counting speed (800/1000/1200 pcs/minute) options.

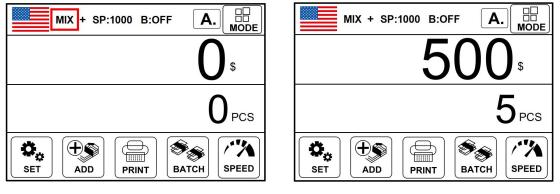


Figure 12

Figure 13

2.1.4.1.2 <CNT> Count Mode

The following Figure 14 and Figure 15 shows the interface of the machine in CNT Count Mode. This mode does not limit currency, and only counts the number of banknotes; It only works with double note detection function and no other counterfeit detection function. In this mode, the machine has four counting speed (800/1000/1200/1500 sheets/minute) options.

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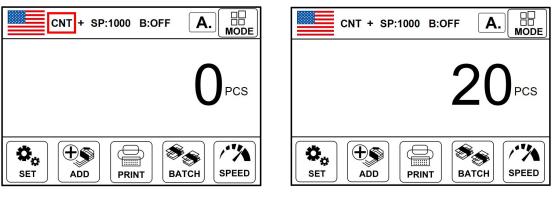


Figure 14

Figure 15

Note: In MIX Counting Mode and SDC Single Counting Mode, the machine has the functions of image acquisition, magnetic detection, ultraviolet detection and double note detection. While in CNT Counting Mode, there is only a double note detection function.

2.1.4.1.3 <SDC> Single Counting Mode

The following Figure 16 and Figure 17 shows the interface of the machine in SDC Single Counting Mode. In this mode, the machine will count the banknotes of the same denomination of US dollars with the first banknote counted as a reference, and count and save the detailed information of the counted banknotes at the same time, including the total amount and the total number of banknotes in the stacker, so as to facilitate users to check. In this mode, the machine has three counting speed (800/1000/1200 sheets/minute) options.

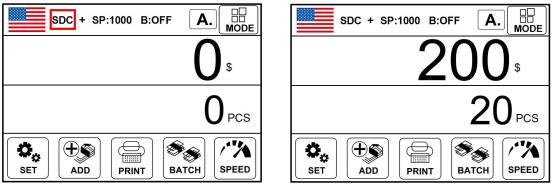




Figure 17

2.1.4.2 Automatic Recognition Mode

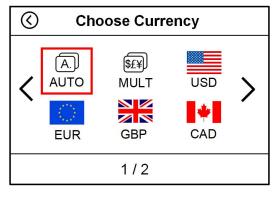
Automatic recognition: Refers to the automatic recognition of banknote counting mode. In the process of counting banknotes, the machine uses the first banknote passing through the sensor as the judgment rule to recognize banknotes of all denominations of the same country. When banknotes from other countries are recognized, the machine will alarm and stop. At this time, banknotes from other

countries need to be taken out, and the machine will continue counting. The machine can only recognize

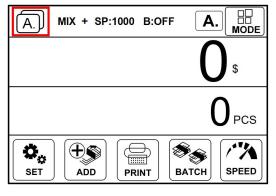
the currency of the country displayed in the program.

Press the key " , or the flag " , on upper left corner of the display to enter the currency

selection interface, as shown in the following Figure 20:









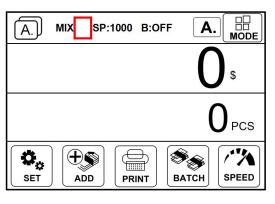
In the automatic recognition mode, there is only one MIX Counting Mode, and the display of machine counting information will be different when the accumulation function is off and on.

When the accumulation function is off, the machine will only record and display the details of the current counting after each counting.

When the accumulation function is on, the machine will accumulate and count the details of current and previous counting after each counting.

2.1.4.2.1 Accumulation Function Off

1) There is no sign "+" between "MIX" and "SP:" at the top of the display, indicating that the accumulation function is off at this time. as shown in the following Figure 21.





2) Example: Put a handful of US dollars into the machine to count. The interface of the machine displays as follows at the end of counting: The flag in the upper left corner is identified as US dollars, as shown in the following Figure 22.

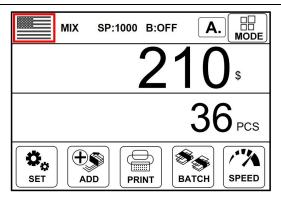


Figure 22

3) Take out the US dollars in the stacker, then put the Euro into the machine to count. The machine interface displays as follows at the end of counting: The flag in the upper left corner is identified as Euro. as shown in the following Figure 23.

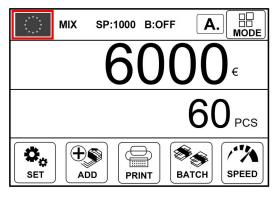


Figure 23

4) After the banknotes in the stacker are taken out, the machine will only display the total number and total amount of banknotes counted for the current time, and will not display the details of the previous US dollars, as shown in the following Figure 24.

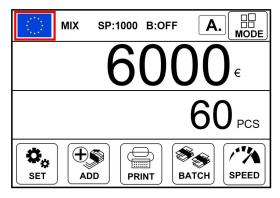


Figure 24

2.1.4.2.2 Accumulation Function On

1) Press the key " or click on the button " ADD " at bottom of the screen, and a symbol "+"

will appear at the top of the display. as shown in the following Figure 25.

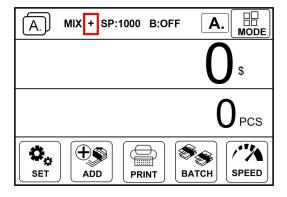


Figure 25

2) Example: Put the US dollars into the machine for counting first, and the machine interface displays as follows at the end of counting: The flag in the upper left corner is identified as US dollars, as shown in the following Figure 26.

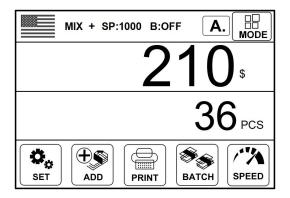


Figure 26

3) Take out the US dollars in the stacker, then put the euro into the machine to count. The machine interface displays as follows at the end of counting: The flag in the upper left corner is identified as euro. as shown in the following Figure 27.

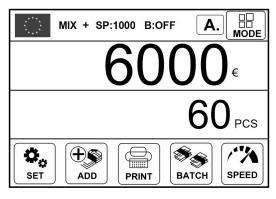


Figure 27

4) After the banknotes in the stacker are taken out, the machine will count and accumulate the details of the previous and current counting, and the following interface will appear:

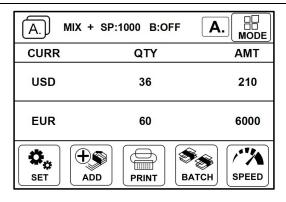


Figure 28

5) After the banknotes are put in again, the upper left corner of the machine will still recognize the banknote type and change the flag icon. After the banknotes in the stacker are taken out, the machine will continue to accumulate the banknote counting details. If we put in US dollars for banknote counting, then put in POUNDS, CAD, EURO, and finally take out the banknotes in the stacker, the machine will display the following interface:

A.	MIX + SP:1000 B:OFF	A. MODE
CURR	QTY	AMT
USD	36	210
GBP	60	3000
CAD	22	220
EUR	60	6000
SET	ADD PRINT BA	TCH SPEED



2.1.4.3 Multi-currency Mix Counting Mode

Multi-currency Mix Counting: Banknotes from multiple countries are mixed together and put into a machine to count. The machine can recognize all the currencies displayed on display.

1) Press the key " The flag " on upper left corner of the display to enter the currency selection interface, as shown in the following Figure 10, then Click on the Multi-country Mix

(\$£¥) Counting Mode "MLUT", and the display screen will be automatically adjusted to the main interface after selection, as shown in the following Figure 30: BC-55 User Manual V1.1

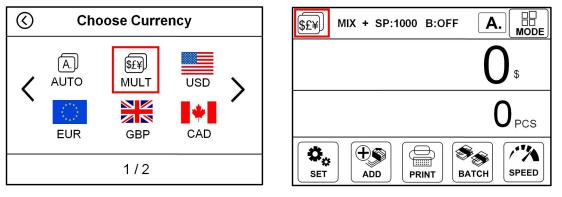


Figure 10

Figure 30

2) Example: Put a handful of banknotes (including US dollars, EURO, POUNDS, CAD) into the machine to

count. Details of counting after counting are shown in the following Figure 31:

\$£¥) MIX	+ SP:1000 B:OFF	A. MODE
CURR	QTY	AMT
USD	5	100
EUR	1	10
GBP	1	10
CAD	5	50
<		>

Figure 31

2.1.5 Counting Speed Setting and Function Description

There are four counting speed options: 1500, 1200, 1000 and 800 (Note: 1500 is only optional in CNT Counting Mode). The default speed is 1200 in the three modes. If setting is required, different

counting speeds can be switched by pressing the "Figure 32 below, the counting speed is set to 1000 in Mix Counting Mode.

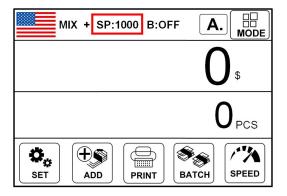


Figure 32

Counting mode	Speed mode	Applicable working mode
MIX Counting	800 pcs/minute	Counting, amount counting, serial number reading functions on
MIX Counting	1000 pcs/minute	Counting, amount counting, serial number reading functions on
Mode	1200 pcs/minute	Counting, amount counting
	800 pcs/minute	Counting, amount counting, serial number reading functions on
SDC Single	1000 pcs/minute	Counting, amount counting, serial number reading functions on
Counting Mode	1200 pcs/minute	Counting, amount counting
	800 pcs/minute	Counting only, without amount counting
CNT Count	1000 pcs/minute	Counting only, without amount counting
Mode	1200 pcs/minute	Counting only, without amount counting
	1500 pcs/minute	Counting only, without amount counting

Function description at each counting speed:

2.1.6 Check counting details on Machine

2.1.6.1 Check banknote counting details

Under MIX counting mode or SDC counting mode, after finish counting and press left side button

", you can check the counting details as Figure 33 shows, Figure 34 is the interface after finish

counting:

\bigcirc	List	
DENOM.	QTY	AMT
\$ 100	0	\$ 0
\$ 50	0	\$ 0
\$ 20	0	\$ 0
\$ 10	0	\$ 0
\$5	0	\$ 0
\$ 2	0	\$ 0
\$1	0	\$ 0
Total:	0	\$ 0

\bigotimes	List	
DENOM.	QTY	AMT
\$ 100	2	\$ 200
\$ 50	5	\$ 250
\$ 20	5	\$ 100
\$ 10	4	\$ 40
\$ 5	3	\$ 15
\$ 2	10	\$ 20
\$ 1	20	\$ 20
Total:	49	\$ 645

Figure 33

Figure 34

This interface is used to check the number of banknotes of various denominations and the total amount of this denomination, as well as the total amount of all amounts. At the same time, banknotes can also be counted by directly placing them under this interface. To exit this interface, please press ESC or touch the "O" key in the upper left corner.

2.1.6.2 Check the serial number of the banknotes

When the machine is in MIX counting mode and SDC counting mode, and the counting speed is 800pcs / min or 1000pcs / min, can output the serial number of the banknotes. After adjusting the counting mode and counting speed, take a handful of notes and put them into the machine for counting. After counting, press the "list" button on the left to enter the counting details interface, as shown in Figure 35 below. Press the "list" button on the left again to enter the crown size query interface, as shown in Figure 36 below.

\bigcirc	List	
DENOM.	QTY	AMT
\$ 100	0	\$ 0
\$ 50	0	\$ 0
\$ 20	0	\$ 0
\$ 10	0	\$0
\$5	0	\$0
\$ 2	0	\$ 0
\$ 1	0	\$ 0
Total:	0	\$0



\bigcirc	Serial Number List	Print
NO.	Serial Number List	Denom.
1	J24846704C	1
2	C31126948J	1
3	C63669804C	1
4	C63669904C	1
5	L69967377A	1



2.1.7 Batch Setting

2.1.7.1 Default Preset Number

Press the key " To touch the key " BATCH" below the display to select the Batch number in the banknote counting interface. The default is 8 options of 200/100/50/20/10/5/USER/OFF.(For example, Figure 37 is the preset turned off, and Figure 38 is the preset number 200). When the Batch function is turned off, the Batch quantity of the machine is 200. When the count reaches 200, the machine will stop running automatically.

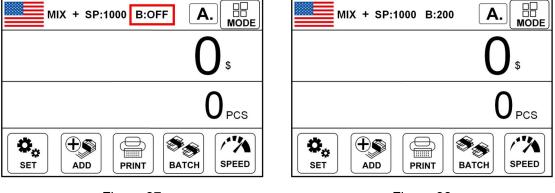


Figure 37

Figure 38

2.1.7.2 Modify Default Batch

1) Press the ", key to enter the main interface of **MENU**, as shown in Figure 39 below, Press

"Customize" to enter into Customize Settings, as Figure 40.

🔇 Menu	Customize Settings
Customize >	 Customized Level
• Basic >	 Batch Qty
	Auto Start
	Buzzer
1 / 1	◀ 1/2

Figure 39

Figure 40

>

>

 \bigcirc

(D)

2) Press "Batch Qty" under Figure 38 to enter into Batch Setting interface, as Figure 41.

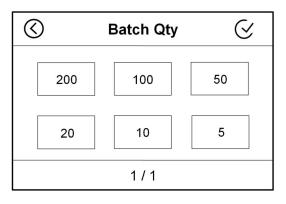


Figure 41

In the Figure above, 200, 100, 50, 20, 10, and 5 are the default 6 batch values . If one or more of the default 6 values are not available to customers, they can be modified to other values.

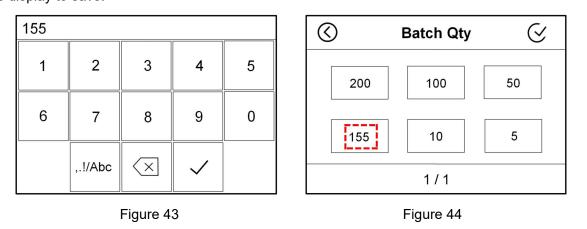
Example: The default preset number of 25 is not required by the customer. The customer needs a value of 155. Then the operation is as follows:

1) Touch Click "20" to enter into Batch setting interface as Figure 42 :

1	2	3	4	5
6	7	8	9	0
	,.!/Abc	X	\checkmark	

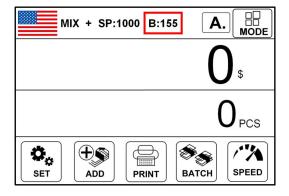
Figure 42

2) Click "155" in turn as Figure 43 shows, and then click " \checkmark " to save , the interface will display as Figure 44, the original "**20**" will be changed to "**155**", then press the " \checkmark " key in the upper right corner of the display to save.



3) Please press the "ESC/CLR" key to return to the main interface, and then press the "

the right side of the frame to switch to the previously set value of 155, as shown in Figure 45:





2.1.7.3 Customized Batch Setting

1) Under main interface, press batch key " for 3S and the machine will enter into customized

batch number setting interface as below Figure 46:

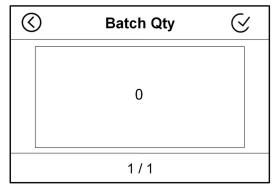


Figure 46

PS: The Batch value shoul be between 0 to 200, otherwise it can not be saved.

2) Touch click "0" to enter into Batch setting interface and input your desired value(for example 155), as

Figure 47 shows, and click " \checkmark " to save, as Figure 48 shows.

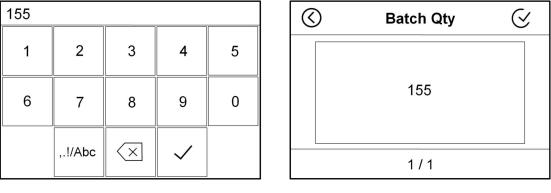




Figure 48

3) Under interface Figure 49, click " ' on right corner, the machine will jump back to main interface, and the current batch value will be changed into 155 too, as Figure 50 shows.

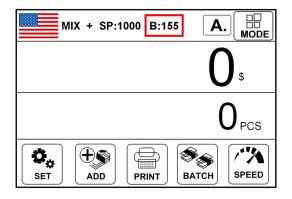


Figure 50

2.1.8 Accumulation Function On

In any counting mode, the accumulation function of the number of sheets can be enabled by

pressing the " key or touching the " key. No "+" symbol appears between "MIX" and "Speed" at the top of the display screen, indicating that the accumulation function is disabled at this time.

There is no sign "+" between "MIX" and "SP:" at the top of the display, indicating that the accumulation function is off at this time., as shown in Figure 51 below.

A "+" sign appears between "**MIX**" and "**SP**:" at the top of the screen, indicating that the accumulation function is enabled, as shown in Figure 52 below.

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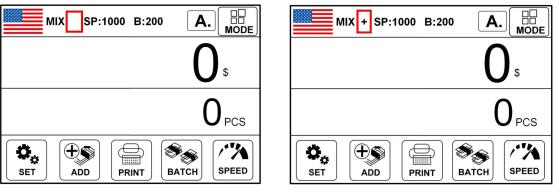




Figure 52

a) After a handful of banknotes is counted and not taken away from the stacker, the machine will display the total quantity and total amount of banknotes counted this time; If the banknotes are removed from the stacker, the machine will display the total quantity and total amount of the current and previously counted banknotes; At this time, press the CLR key once and the information of the last counting will be cleared, and press the CLR key twice and all counting information will be cleared.

b) In the process of counting, the machine will automatically delete the information of the counted banknotes and prompt the need to count the banknotes again if there is any error.

c) In the accumulation mode, when checking the serial number, the machine only displays the serial number of the last 200 banknotes.

2.1.9 Counterfeit Detection Setting

1) Press the " key to enter the main interface of **MENU**, as shown in Figure 39 below, Press "**Customize**" to enter into Customize Settings, as Figure 40.

\odot	Menu	
 Customize 		>
 Basic 		>
	1/1	

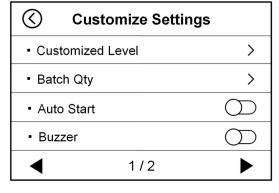




Figure 40

2) Touch Click "**Customized Level**" under Figure 40 to enter into counterfeit detection level setting interface, as Figure 53 shows:

\bigcirc	Currency Choose	
• USD		>
• EUR		>
• GBP		>
• CAD		>
•	1/3	



3) Take USD as an example, touch "**USD**" to enter the interface of US dollars counterfeit detection setting, as shown in the following Figure 54 and Figure 55:

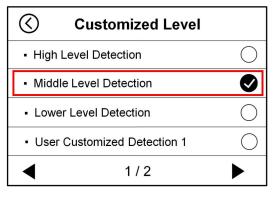
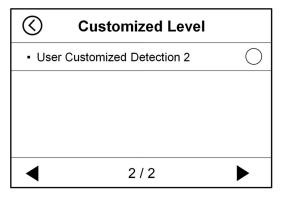


Figure 54





4) There are three levels optional under this setting interface: High, medium and low. The higher the level is, the higher the counterfeit detection sensitivity will be. Users can select the appropriate file location and touch the back " • " to confirm saving. The default level is medium. Customized counterfeit detection 1 and customized counterfeit detection 2 are not recommended for customers to directly change and use.

2.1.10 Buzzer Setting

1) Press the " key to enter the main interface of **MENU**, as shown in Figure 39 below, Press "**Customize**" to enter into Customize Settings, as Figure 40.

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Menu		Customize Settings	
Customize	>	Customized Level	
• Basic	>	Batch Qty	
		 Auto Start 	\bigcirc
		 Buzzer 	\bigcirc
1 / 1		4 1/2	►

Figure 39

Figure 40

2) In the interface of Figure 40, tap the switch button at the back of "**Buzzer**" to turn on and off the buzzer. Figure 56 shows the off state of the buzzer, and Figure 57 shows the on state of the buzzer.

Customize Settings		\bigotimes	Customize Settings	
Customized Level	>	Cust	tomized Level	>
 Batch Qty 	>	 Bato 	ch Qty	>
Auto Start	\bigcirc	 Auto 	o Start	\bigcirc
• Buzzer	\bigcirc	• Buz	zer	
▲ 1/2		◀	1 / 2	
1/2		◀	1/2	

Figure 56



2.1.11 Language Setting

1) Press the " key to enter the main interface of **MENU**, as shown in Figure 39 below, Press

"Customize" to enter into Customize Settings, as Figure 40.

🔇 Menu	Customize Settings
Customize	Customized Level
Basic >	Batch Qty
	Auto Start
	• Buzzer
1/1	◀ 1/2 ▶
Figure 39	Figure 40

2) In the interface shown in Figure 40, touch the "**P**" key in the lower right corner to enter the second page interface, as shown in Figure 58. Touch the "**Language**" button again to enter the language setting interface, as shown in Figure 59 below:

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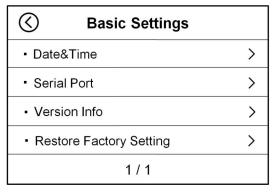
3) After you touch "**V**" after the language you want to select, touch the "**V**" button in the upper left corner of the screen, and the machine will prompt you to restart the machine. After restarting, the main interface language of the machine will be displayed as the language just selected.

2.1.12 Date and Time Setting

1) Press the " key to enter the main interface of **MENU**, as shown in Figure 39 below, Press "**Basic**" to enter into Basic Settings, as Figure 60.

\bigcirc	Menu	
 Customize 		>
 Basic 		>
	1/1	







2) Touch the "**Data&Time**" option in the basic setting interface to enter the time setting interface, as shown in the following Figure 61:

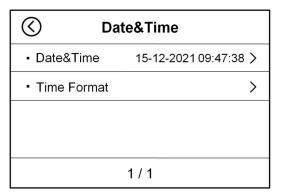


Figure 61

The first "**Data&Time**" is used to set time as Figure 62. Touch click numbers the display will show

number input interface, input the correct values and click " \checkmark " to save as Figure 63.

]]			
2021 / 12 / 15 09 : 49 : 09	1	2	3	4	5
	6	7	8	9	0
+ -		,.!/Abc	$\langle \times$	\checkmark	



Figure 63

The second "Time Format" is used to set time format and 24h format, as Figure 64. Touch click

"V" to select the right time format.

C Time Style	
• yyyy-MM-dd	\bigcirc
 dd-MM-yyyy 	
• 24H Format	
1 / 1	

Figure 64

2.1.13 Software Version Viewing

1) Press the " key to enter the main interface of **MENU**, as shown in Figure 39 below, Press "**Basic**" to enter into Basic Settings, as Figure 60.

🔇 Menu		G Basic Settings	
Customize	>	Date&Time	>
• Basic	>	 Serial Port 	>
		Version Info	>
		Restore Factory Setting	>
1/1		1/1	

Figure 39

Figure 60

2) Touch the "Version Info" button to enter the software version interface, as shown in Figure 65 below:

Software Version				
 Kernel 	KERNEL_35292_2021-12-10			
• App	060010301046_06			
• UI	UI_9103_2021-12-10			
ECB Sub	Version 020105			
1 / 1				



2.1.14 Restore Factory Setting

1) Press the " key to enter the main interface of **MENU**, as shown in Figure 39 below, Press

"Basic" to enter into Basic Settings, as Figure 60.





Figure 60

>

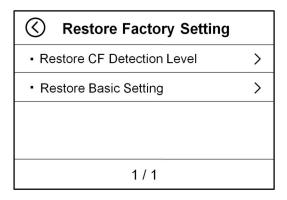
>

>

>

2) Touch the "Restore Factory Setting" button again to enter the language setting interface, as shown

in Figure 66 below:





3) "**Restore CF Detection Level**": Restore the factory settings of the counterfeit detection gear. If the customer has a special request to adjust the counterfeit check position of a certain country's currency for banknote counting, and wants to restore the original counterfeit check unit after counting the currency, this function can be used. As shown in Figure 67 below.

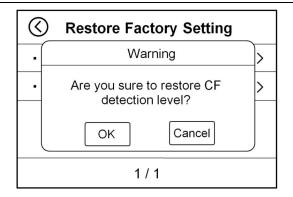


Figure 67

4) "**Restore Basic Setting**": Restore the basic settings to factory settings. If the customer has modified the basic settings of multiple machines (such as the buzzer, baud rate, coin counting alarm function, etc.), and now needs to restore the factory settings, this function can be used. After using this function, the machine needs to be restarted. As shown in Figure 68 below.

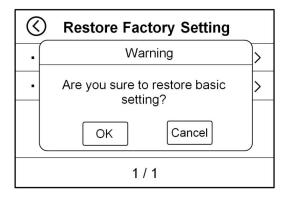


Figure 68

2.1.15 Counting History Information

1) Press the "_____" key once to enter the MENU main interface, as shown in Figure 39 below. Press

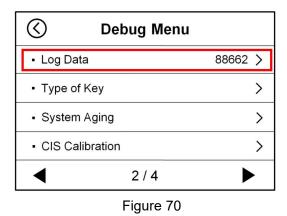
the " key twice again to enter the Debug Menu interface, as shown in Figure 69 below:

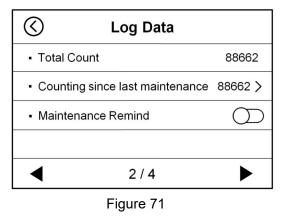
🔇 Menu		C Debug Menu
 Customize 	>	User Setting
 Basic 	>	Collection Mode
		Suspect Note Collection Mode
		Display Debug Button
1 / 1		▲ 1/4 ►





2) Touch the "P" button at the lower right corner of the interface in Figure 69 to move to the second page, as shown in Figure 70 below. Tap "**Log Data**" to enter the coin history information interface, as shown in Figure 71:





"Total Count": Historical total count

"Counting since last maintenance": Total count since last maintenance, tap to clear

"Maintenance Remind": This is a reminder function when the number of total counts reaches 80W.

After reaching 80W, the customer needs to reset the number of credits on the machine. Customers can

choose to turn on or off by tapping the switch ", at the back according to their needs.

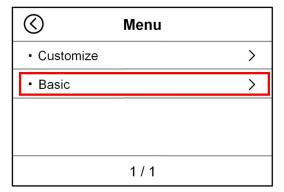
2.2 Printer Introduction

2.2.1 Connect RIBAO printer

The factory default baud rate of the machine is 115200. And the baud rate of the Ribao printer is also 115200. If you buy a printer from Ribao, it is compatible with our machine, so you can directly connect the printer to our money counter using the printer cable. The specific steps are as follows:

1) Press the "_____" key to enter the main interface of **MENU**, as shown in Figure 39 below, Press

"Basic" to enter into Basic Settings, as Figure 60.



Basic Settings	
Date&Time	>
 Serial Port 	>
Version Info	>
 Restore Factory Setting 	>
1 / 1	





2) Touch the **"Serial Port"** key to enter the baud rate setting interface, as shown in Figure 72 below. First touch the second item **"Device Choice"** to enter the peripheral selection interface. In this interface,

type "•• after the second item "Printer", shown in Figure 73, and then touch the "•• key in the upper right corner to save, and it will automatically transfer to the interface shown in Figure 72.

Serial Port settings					
 Baud Rate 	>				
Device Chioce					
Printer Cutter Function					
1 / 1					

\bigotimes	Device Choice	\bigotimes
• PC		\bigcirc
 Printer 		♦
	1 / 1	



ESC

Figure 73

3) Press the "CLR" key several times to return the machine to the main interface. Please select the coin counting mode and currency type of the machine.

4) Connect the printer to the power source, connect one end of the cable in the printer box to the printer,

and the other end to the RS232 interface of the machine.

5) Now that the printer is connected to the machine, please count the banknotes. After the count is

completed, press the " key to enter the coin count list interface, press the " right or touch the " right or touch the " RINT" key at the bottom of the screen to print the bill details and total amount. The

right or touch the "PRINT" key at the bottom of the screen to print the bill details and total amount. The printed format is shown in Figure 74.

CUSTOMER	ID :	
USD		
Deno.	Count	Value
100	5	500
50	2	100
20	0	0
10	0	0
5	30	150
1	21	21
Total :	56	771
	11/09/2021	11:14:30

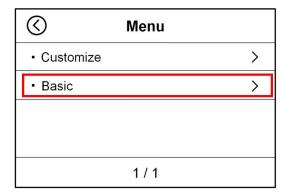
Figure 74

2.2.2 Connect other brand printer

If you buy a serial thermal printer of another brand. Please confirm the corresponding baud rate first according to the printer's instructions. The factory default baud rate of the machine is 115200.

1) Press the "_____, key to enter the main interface of **MENU**, as shown in Figure 39 below, Press

"Basic" to enter into Basic Settings, as Figure 60.



\bigotimes	Basic Settings	
 Date 	&Time	>
 Seria 	>	
 Vers 	>	
 Rest 	>	
	1 / 1	





2) Touch the **"Serial Port"** key to enter the baud rate setting interface, as shown in Figure 72 below. First touch the second item **"Device Choice"** to enter the peripheral selection interfaceIn this interface,

type "•• after the second item "Printer", as shown in Figure 73 below and then touch the "•• key in the upper right corner to save, and it will automatically transfer to the interface shown in Figure 72.

Serial Port settings	S Device Choice
Baud Rate	• PC
Device Chioce	Printer
Printer Cutter Function	
1 / 1	1 / 1



Figure 73

3) In the interface shown in Figure 72, touch the first item "**Baud Rate**" to enter the baud rate setting interface, as shown in Figure 75 below. Please select the corresponding baud rate according to the printer's baud rate and then click "**O**", and then touch the "**O**" key in the upper right corner to save. After changing the baud rate, the machine will prompt to restart, so please restart the machine as required.

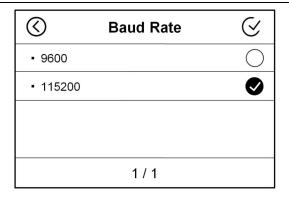


Figure 75

4) If the baud rate is set correctly, but still cannot print, please use the printer cable in the machine box provided by us to connect with the RS232 cable of the printer you purchased, and then connect to our printer to print the data, as shown in Figure 76.

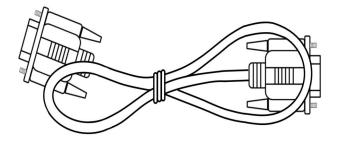


Figure 76

5) If you find that the printer cable interface you purchased does not match the banknote counter interface, you can use the printer cable adapter in the machine box provided by us for connection (please see Figure 77 below).

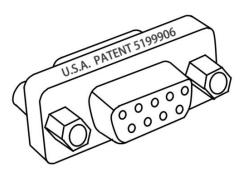


Figure 77

6) If you encounter other problems, please contact our after-sales service team. The contact information of our service team is on the warranty card and product label. They will provide the perfect solution.

2.3 Introduction of uploading the counting data

If the customer wants to upload the machine's point currency detail data to the PC, the customer

needs to do the following:

2.3.1 Serial cable connection

Take a USB to RS232 serial cable, connect the USB end to the PC, and insert the RS232 serial end into the machine, as shown in Figure 78.

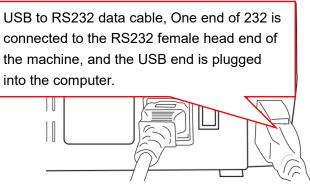


Figure 78

2.3.2 Machine Setup

1) Press the " key to enter the main interface of **MENU**, as shown in Figure 39 below, Press "**Basic**" to enter into Basic Settings, as Figure 60.



Figure 39

Figure 60

2) Touch the "**Serial Port**" key to enter the baud rate setting interface, as shown in Figure 79 below. First touch the second item "**Device Choice**" to enter the peripheral selection interface. In this interface,

type "**V**" after the first item "**PC**" as shown in Figure 80 below., and then touch the "**V**" key in the upper right corner to save, and it will automatically transfer to the interface shown in Figure 79.

Serial Port settings		\bigcirc	Device Choice	\bigotimes
Baud Rate	>	• PC		
Device Chioce	>	Printer		\bigcirc
Printer Cutter Function)			
1 / 1			1 / 1	



Figure 80

ESC

3) Press the "CLR" key several times to return the machine to the main interface. Please select the coin counting mode and currency type of the machine.

2.3.3 Instruction of Data collection PC software

1) Open the upper computer software provided by our company "^{OpperMonitor}", as shown in Figure 81 below.

ncy List					-		×
V	Buad	Rate	\sim	Oper	ו	Next	Clear
mination			Quantity			Amou	nt
	V		✓ Buad Rate	V Buad Rate V	V Buad Rate V Open	Buad Rate Open	Buad Rate Open



2) Select serial port and baud rate, and the baud rate must be consistent with the baud rate selected on the machine, as shown in Figure 82 below.

Currency List		- 🗆 X
Port COM8 V Buad	Rate 115200 V	Open Next Clear
Denomination	Quantity	Amount



3) Press the Open key again, the font of serial port and baud rate will be dimmed, OPEN will be changed

to CLOSE, and then counting can be performed and the counting information can be checked, as shown

in Figure 83 and Figure 84 below.

\bigcirc	Currency List					_		X
Port	COM8	Buad	Rate	115200	Clos	se [Next	Clear
[Denominatior	Ĩ		Quantity			Amou	nt



Port COM8	Buad Rate	115200	Close	Next	Clear
Denominat	on	Quantity		Amount	
100		0		0	Counting details
50		1		50	
20		0		0	
10		1		10	
5		1		5	
2		0		0	
1		2		2	
Total:	-	5		67	
NO. DENC	1 SN.			07	
1 1 2 50 3 10 4 1 5 5	L2257804 MB004877 JL021639 L2257812 MB513454	72B 28B 0J		Serial n	umber

Figure 84

4) At the same time, the folder stored in the upper computer will automatically generate a Data folder

"Data". Open the "Data" folder to find the corresponding list information, as shown in Figure 85 below.

名称 ^	修改日期	类型	大小
<u> 163444_</u> 038.pdf	2021/10/9 16:34	Foxit Reader PD	12 KB
🥵 163447 720 SN.pdf	2021/10/9 16:34	Foxit Reader PD	0 KB

Figure 85

2.4 Instruction of External display

This machine is suitable for external displays with RJ12 connectors. Take the external display as an example, the specific operations are as follows:

1) Please insert the RJ12 connector of the external display into the RJ12 interface on the back of the machine, as shown in Figure 86.

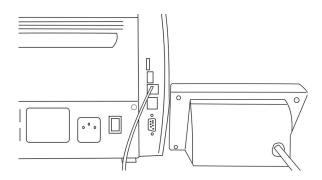


Figure 86

2) After turn on the machine and select the currency of the corresponding country, the code of the corresponding country will also be displayed on the external display.

Example: The machine selects the US dollars mixed point mode, as shown in Figure 87, at this time the word "**USD**" will appear on the external display, as shown in Figure 88.

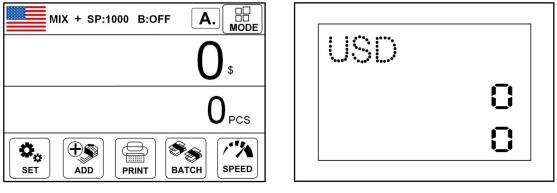


Figure 87

Figure 88

3) Put in a bundle of US dollars to count. After counting ends, the total number and total amount of counted notes will appear on the display, as shown in Figure 89 below. At this time, there will also be two lines of values on the external display: the first line is the number of notes, and the second line is the total amount, as shown in Figure 90.

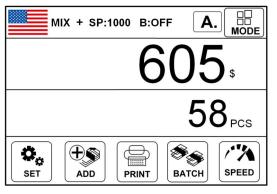


Figure 89





3. Maintenance Instruction 3.1 Software Upgrade

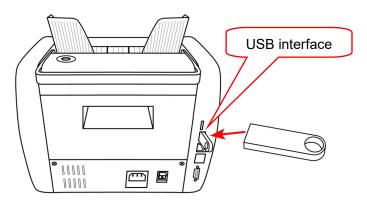
3.1.1 U-disk Preparation

U-disk upgrade method is adopted for the software upgrade of this product.

Please copy the upgrade file provided to you by our company (the suffix name of the master control software is ".ZPK", such as 20180413.DF61723E.ZPK) to the root directory of the U disk (please do not change the file name or format of the upgrade file, and Only one file in the format of ".ZPK" can be kept in the root directory of the USB flash drive), and then insert the USB flash drive into the USB port on the back of the machine.

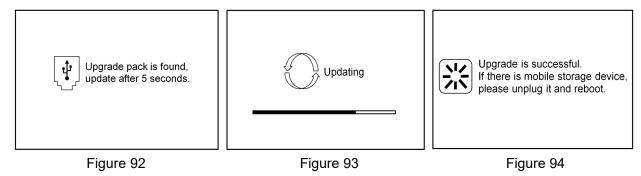
3.1.2 Software Upgrade

1) Insert the U-disk into the USB interface of the machine when the machine is off, as shown in Figure 91 below:





2) Turn on the power of the machine, the machine will automatically recognize the U disk information and display it for 5 seconds before the upgrade starts, as shown in Figure 92 below. The machine continues to upgrade, and the interface shown in Figure 93 appears below. After the upgrade of the standby device is completed, the interface shown in Figure 94 will appear. At this time, please unplug the U disk and restart the interface, so the software upgrade of machine is completed.



3.2 Daily Clean instruction

Any dust, dirt or other substances sticking to the sensor will interfere with the normal operation of the sensor and cause erroneous counting results. Therefore, the sensor and roller shaft shall be cleaned with the attached cleaning tools as necessary every day.

Please turn off the power switch before cleaning to prevent electric shock or other injury accidents.

Please do not use chemicals such as benzene, thinner or water, which may cause fading or cracking of the machine.

3.2.1 Clean the banknote hoppersensor

As shown in the Figure 95, clean the start-up sensor with nylon brush or cleaning cloth.

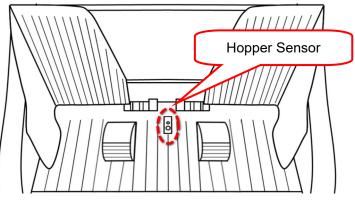


Figure 95

3.2.2 Clean the banknote feeding axle and the banknote twisting axle

As shown in the following Figure 96, clean the drum roller shaft and feed roller shaft with nylon brush or cleaning cloth.

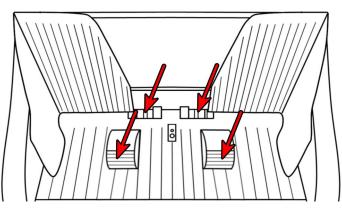


Figure 96

3.2.3 Clean the banknote stacker sensor

As shown in the following Figure 97, clean the sensor with nylon brush or cleaning cloth. (ST)

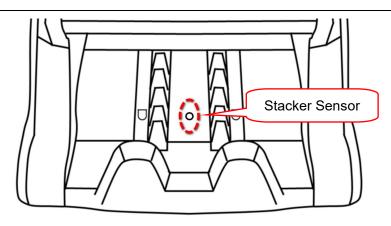


Figure 97

3.2.4 Clean the channel internal sensors

1) Pull the back cover in the direction shown in the Figure to open the back cover.

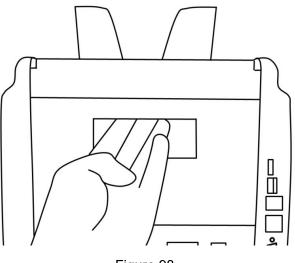


Figure 98

2) Wipe the upper CIS of mark 1 in one direction with a dust-free cloth, and then clean the infrared emitting lamp cap of mark 2 with a nylon brush.

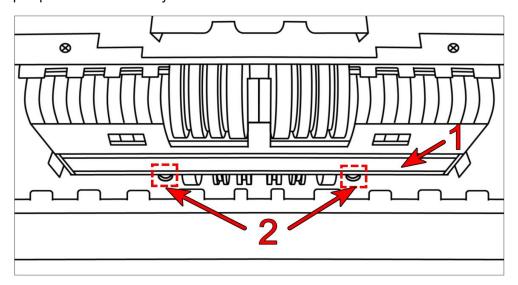


Figure 99

3) Clean the lower UV sensor and lower CIS with nylon brush as shown in the following Figure 100. Wipe the lower CIS of mark 1 in one direction with a dust-free cloth, and then clean the infrared receiving lamp of mark 2 and the lower UV lamp of mark 3 with a nylon brush.

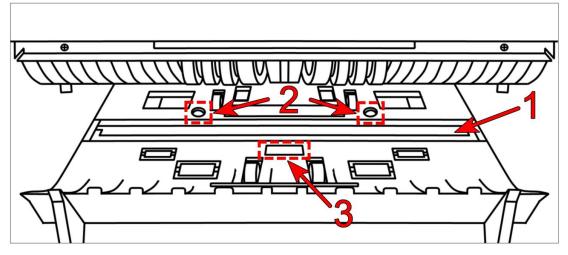


Figure 100

3.3 Common Faults and Corresponding Descriptions

In the process of using the machine, the machine may show abnormal state, resulting in abnormal operation, and the machine will display corresponding fault information. The following provides the phenomenon when the machine malfunctions. Please refer to the maintenance manual for specific handling methods. If the user still cannot solve the problem according to the maintenance manual, please contact the local agent.

Fault description of boot self-check:

Code	Code meaning
3001	Virtual device open
3002	Virtual device error
3004	Network error
3008	Display error
3009	RTC ERROR
3101	MOTOR ERROR
3102	INCODE ERROR
3310	PS2 ERROR
3401	LOWER CIS ERROR
3402	UPPER CIS ERROR
3501	HOPPER SENSOR ERROR
3502	STACKER SENSOR ERROR
3901	PASSAGE OPEN

Our company reserves the right to change the Manual in order to continuously improve our products.