

MAGER152

Banknote Sorter



User Manual

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1. Introduction

1.1 Preface

Thanks for buying our product. The user manual includes the operation steps and matters need attention.

In order to use the machine correctly, please read this manual carefully. If you meet any difficulty please contact your local distributor immediately.

We keep the right to modify the content of the manual without notice.

1.2 Notice

This product is used to sort and count banknotes ,If any loss caused due to incorrect use, or any modification to the machine not done by our company or our distributor, our company will not be responsible for it. Please contact your distributor if you want to install or transport this machine to avoid the wrong installation or damage during the transportation.

- This product is used for counting and sorting the mentioned banknotes in user manual. Please don't use this machine for other purpose.

- Due to different power supply standard and safety standard, please do not use this machine in countries with disaccorded power supply.

- Some content may be modified without notification, please kindly understand.

- We are working continuously for improving the quality of products, so the actual machine may be a little different with the manual.

- If the machine is changed or modified by user without our notice, our company will not be responsible for it.

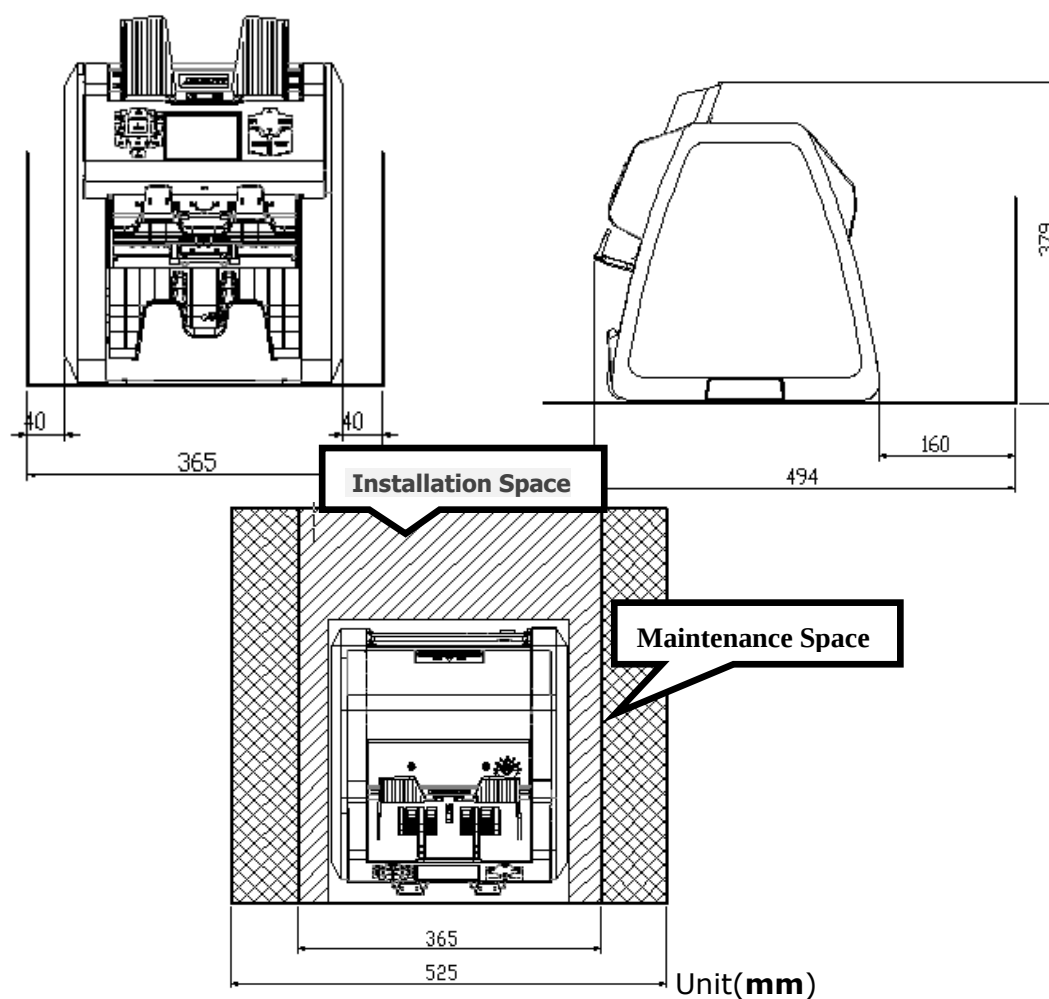
2. Installation Notice

2.1. Installation Notice

- 1) If you need to install this product, please contact the nearest distributor or our authorized distributor.
- 2) The machine is only suitable for indoor use, please do not install it and use it outdoor.
- 3) Please install the machine in an even place which can hold the weight of this machine.
- 4) Please do not use or put flammable or volatile items around the machine, such as diluents.

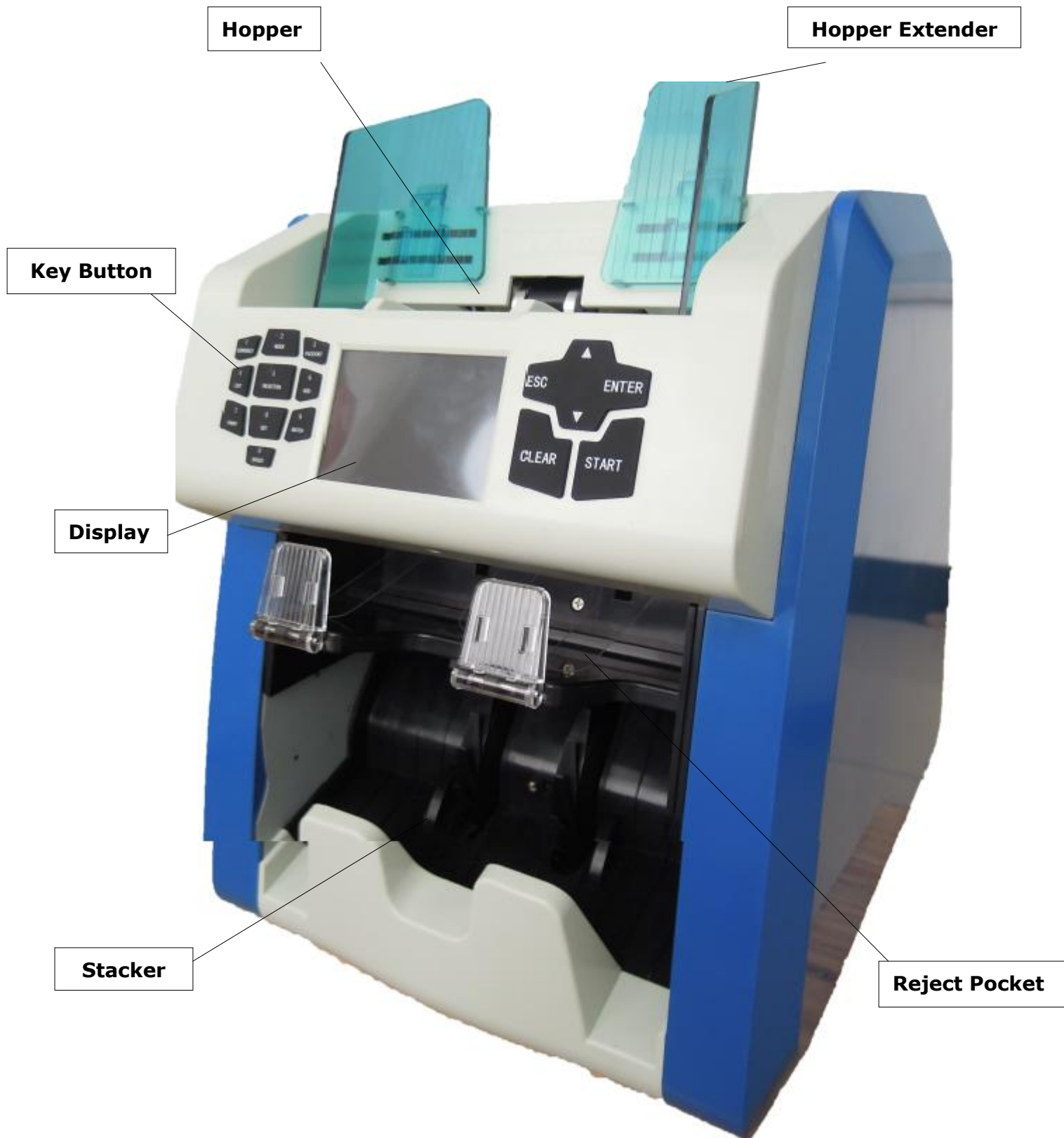
2.2. Installation place notice

Install the machine as below, there should be enough space for your operation, such as putting the notes, opening and closing the cover and doing maintenance.



3. Diagram

3.1 Front Diagram



3.2 Back Appearance



1. External printer
2. Terminal interface

LAN Port
(Option)

Power Switch

FUSE Socket

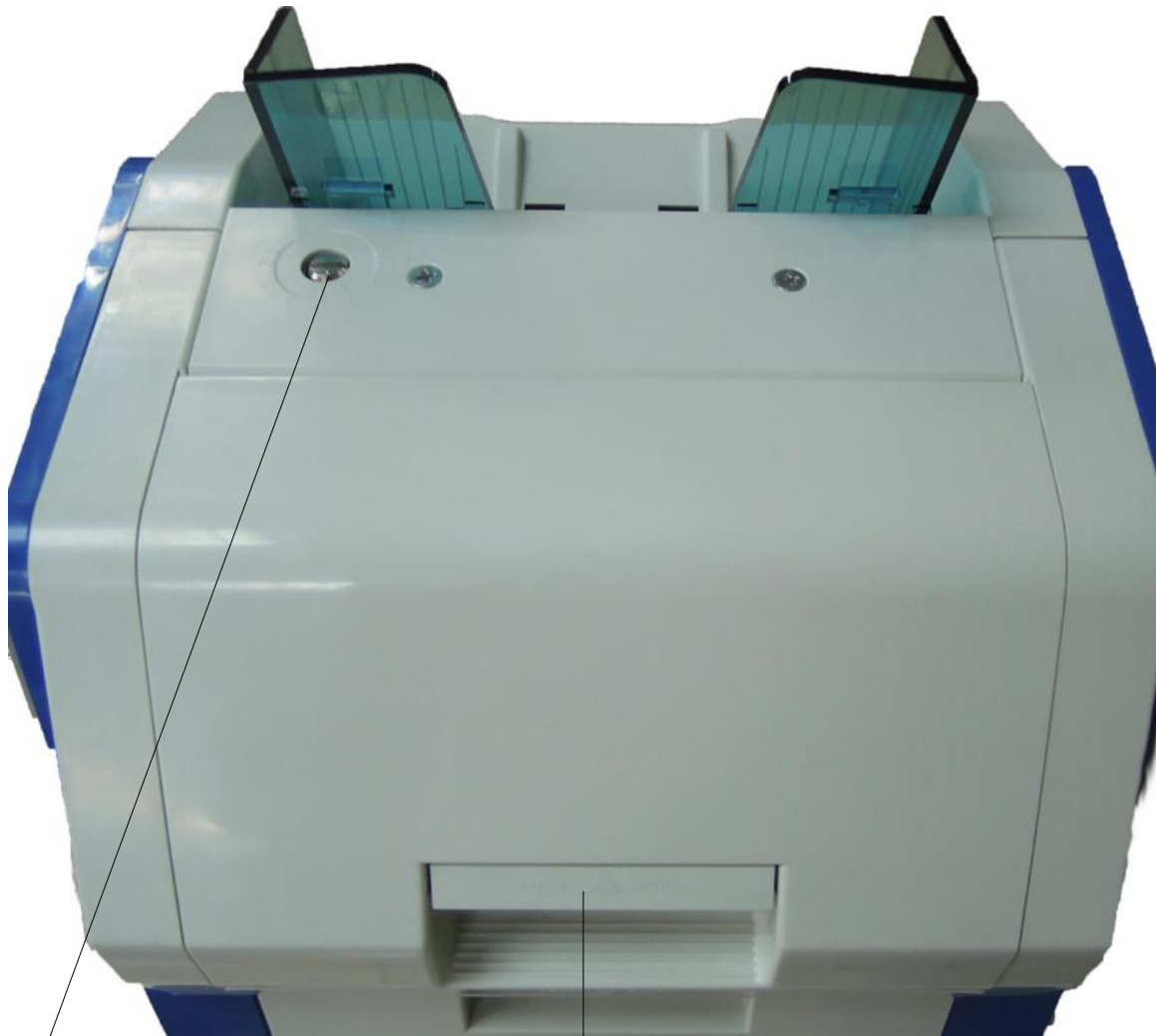
Power Socket

RJ12

SD card

USB
interface

3.3 Top Appearance



Feed Gap Adjusting Screw

Back Cover Open button

4. Specification

Dimension(W×L×H)	340mm×340mm×380mm
Weight	13KG
Hopper Capacity	600pcs
Stacker	200pcs
Reject Pocket Capacity	100pcs(brand new)
Display	3.5 inch TFT Screen
Interface	RS-232/LAN/RJ12/SD/USB
Currency Support	Maximum 20 currencies
Sortable Notes Size	Width: 100mm~180mm Length: 50mm ~90mm
Sortable Notes Thickness	0.05mm~0.12mm
Counting Speed	800/1000pcs/min (MIX/SDC mode) 800/1000/1200pcs/min (CNT modes)
Sorting Modes	MIX Counting Mode, FACE Sorting Mode, Denomination Sorting Mode, Orientation Sorting Mode, Pieces Counting Mode
Batch No.	0~200
Counterfeit Detection	UV/MG/MT/IR
Power Supply	AC 220V 50Hz ±10% AC 110V 60Hz ±10%
Power Consumption	Sleeping Mode ≤15W During Operation ≤70W
Working Condition	Temperature(0~40°C)/Humidity(40~90%) Air Pressure(70-106kpa)
Storing Condition	Temperature(-40~55°C)/Humidity(10~95%) Air Pressure(70-106kpa)

5. Display and Operation interface

5.1 Display Interface

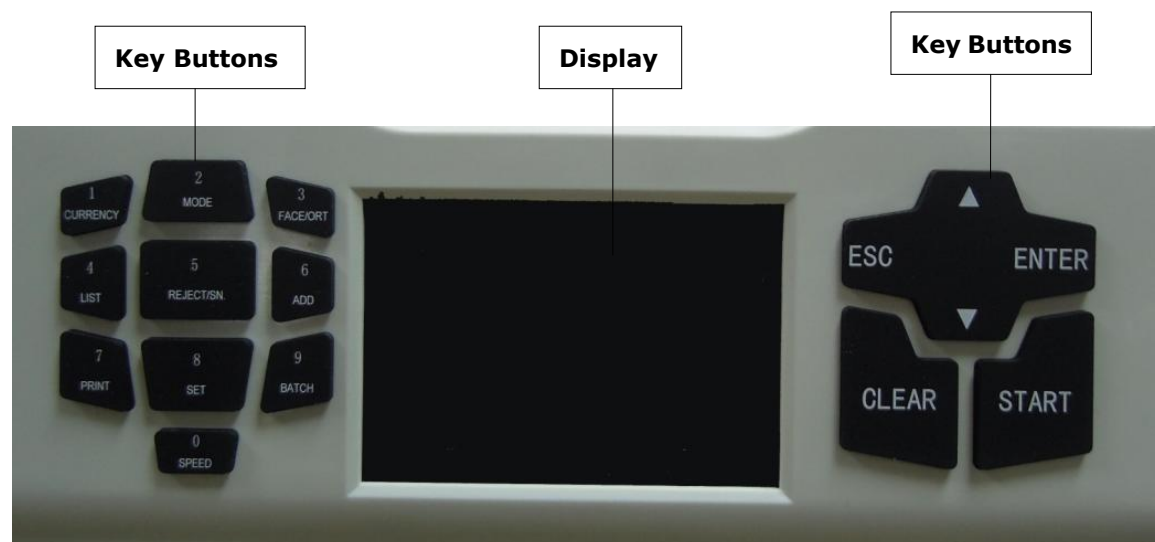
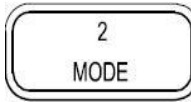
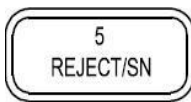
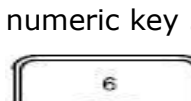
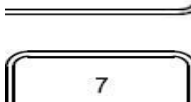
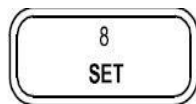


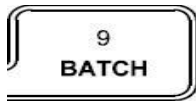
Fig.1

5.2 Key Function Explanation

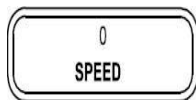
- | | |
|---|--|
|  | Currency selection and numeric key 1 |
|  | Counting modes selection or numeric key 2 |
|  | Face/Orientation selection or numeric key 3 |
|  | Check counting details or numeric key 4 |
|  | Suspected notes checking and serial number checking or numeric key 5 |
|  | Accumulation function switch or numeric key 6 |
|  | Printing or numeric key 7 |



User setting or numeric key 8



Quantity/Amount batch or numeric key 9



Speed selection or numeric key 0



Move the cursor up



Move the cursor down



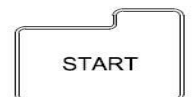
Exit or Cancel or Return



Function enter or confirmation or Save

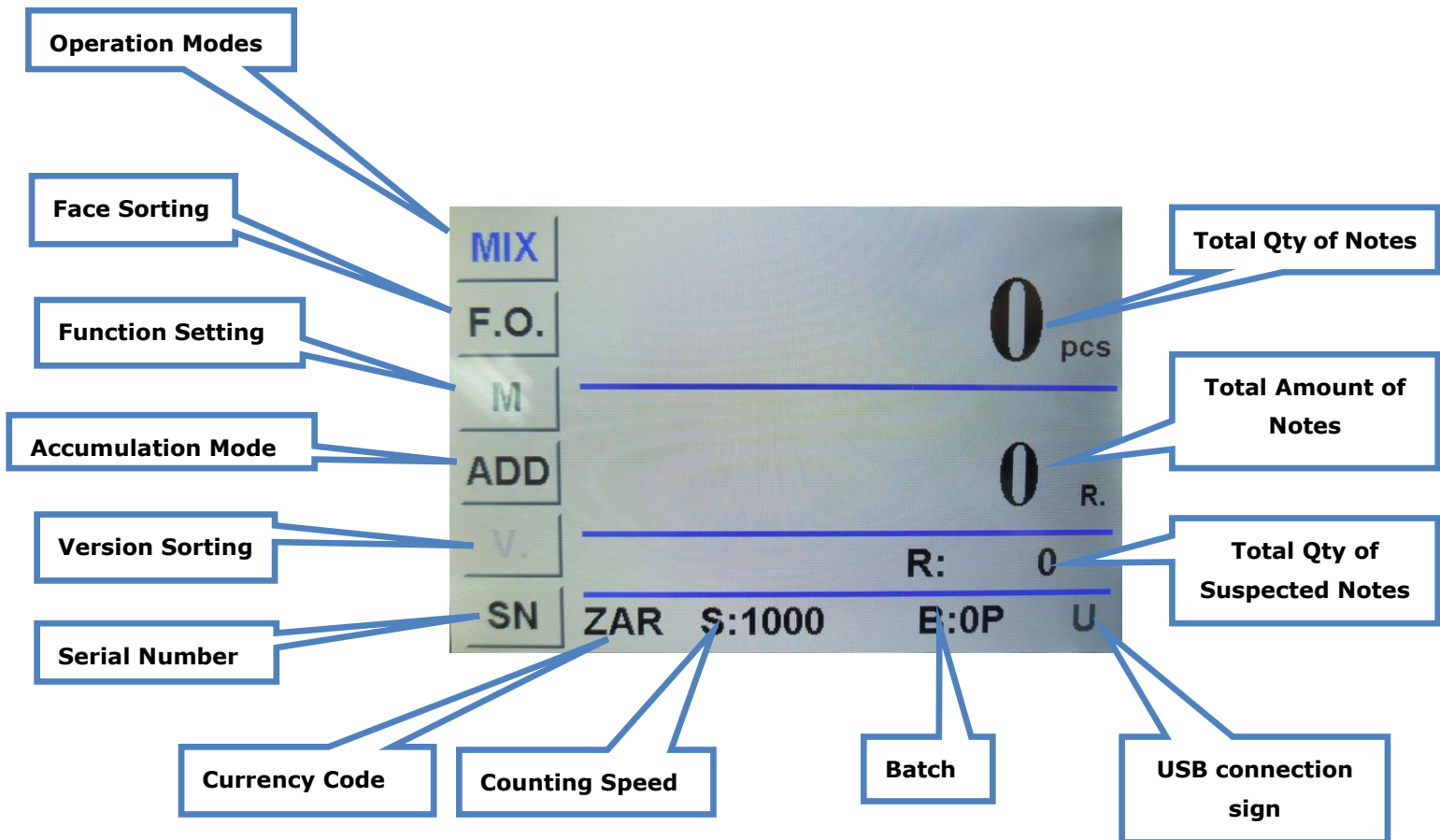


Clear function or error code



Start the machine manually

5.3 Software Interface Explanation



6. Operation Instruction

6.1 Operation

6.1.1 Turn on the machine

Connect the machine with power supply and then turn on the machine, it will enter into loading interface and self-testing interface, shown as Fig.1:

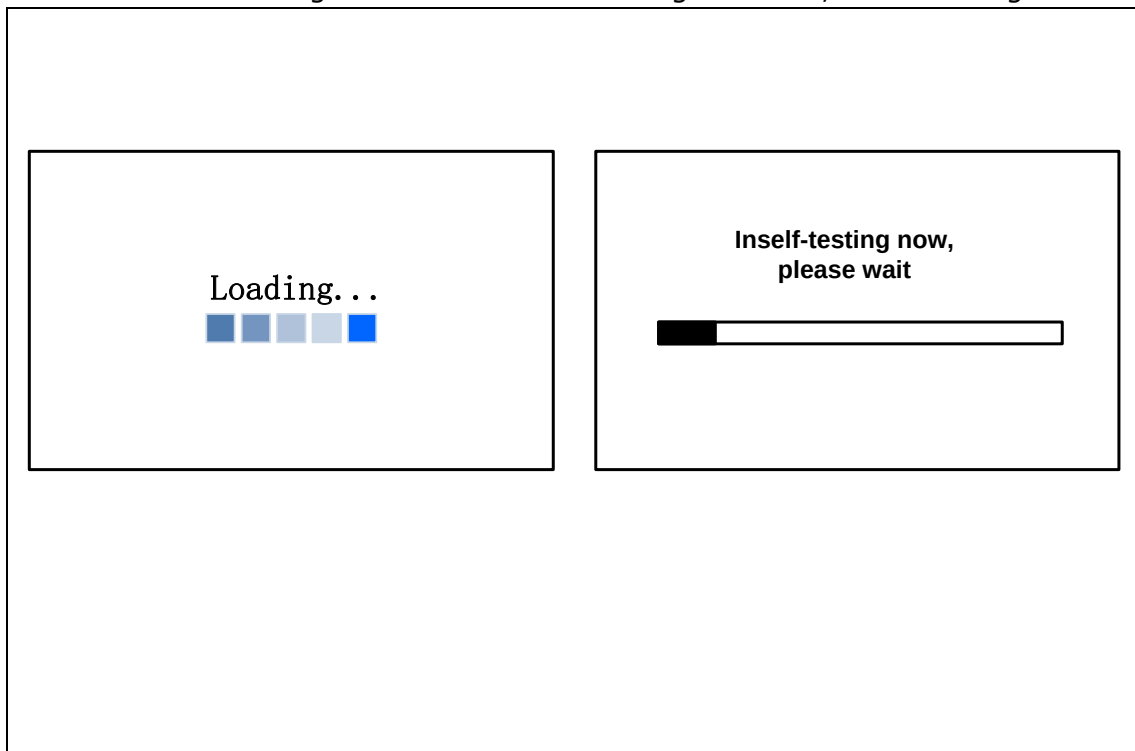


Fig.1

Please wait for about 1min and the machine will initialize successfully and enter into main interface as Fig.2

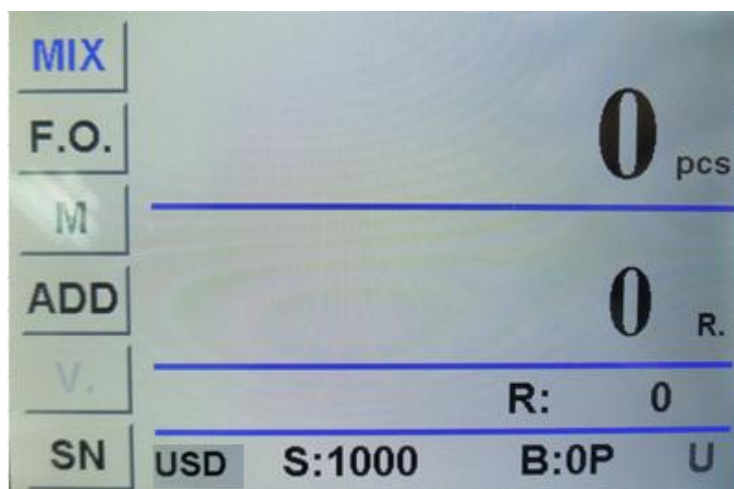


Fig.2

6.2 Currency Setting

***Note: Before counting, please check the currency code area and confirm if the currency is correct. If not, please adjust the currency according to the below instructions(take USD for example).**

Press  key to enter into currency selection mode, shown as Fig.3:



Fig.3

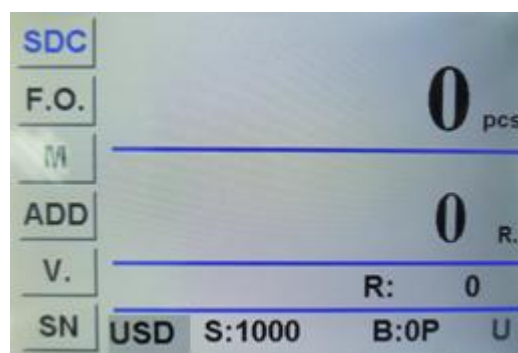
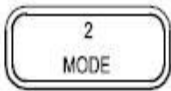


Fig.4

Under currency selection interface, touch the screen to select the currency, press SAVE key to save the setting and return to main interface; if press ESC key, then it will not save the setting and return to main interface.(Fig.4 is to select the currency to be USD)

If the machine you ordered is only programmed single currency, then it will be not able to select currency.

6.3 Counting Modes Selection

Press  key to switch three counting modes from MIX->SD->CNT in circle, shown as Fig.5. Every time after you set the operation mode, the machine will memorize it until you adjust the default setting for operation mode by referring to User Setting.

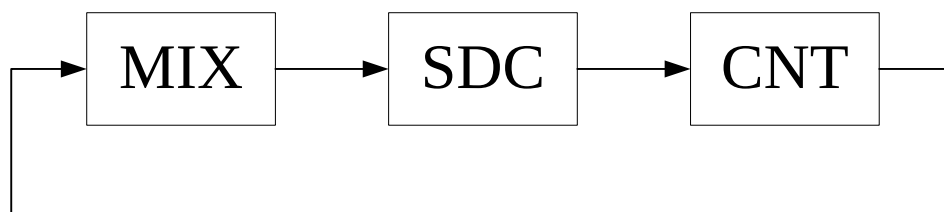


Fig.5

6.3.1 <MIX> MIX COUNTING MODE

The Fig.6 shows the Mix counting mode under automatic counting status. Under this mode, the machine will keep the detailed information of notes in stacker including total quantity and total amount and detailed information for notes in reject pocket. Under this mode, the machine will count notes under a default speed at 1000pcs/min and detect the notes in a strict way.

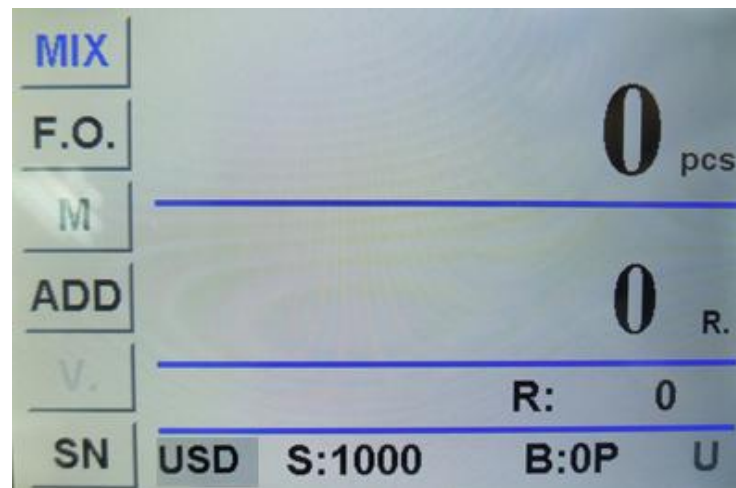


Fig.6

6.3.2 <SDC> Single Denomination Counting Mode

The Fig.7 shows the machine in SDC mode under auto state. Under this mode, the machine will sort the notes according to the first note it counts, in the meantime, it will calculate and save the total amount, total quantity in stacker and quantity in reject pocket.

Note: the notes rejected under this mode will give a size error code reminding. The default speed under this mode is 1000pcs/min and the counterfeit detection level is same as MIX mode.

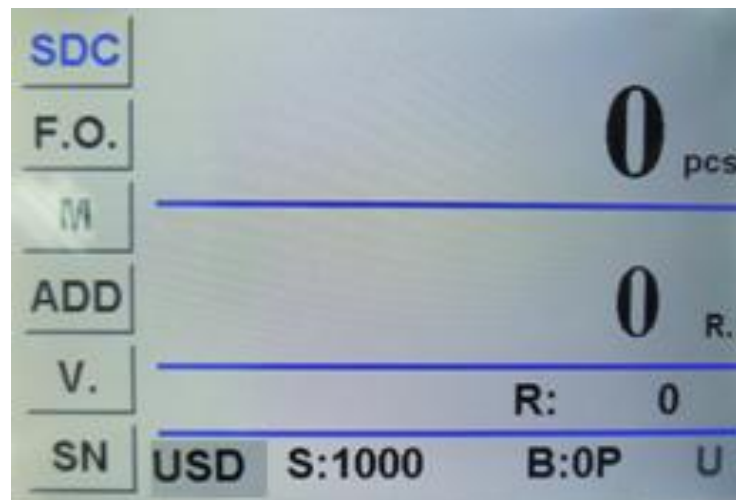


Fig.7

6.3.3 <CNT > Pieces Counting Mode

The Fig.8 shows the CNT mode under auto state, the machine only calculate the quantity of notes regardless currencies. Under this mode, the machine will count the notes in a default speed at 1000pcs/min without counterfeit detection, but the machine has DB detection, based on the thickness of first note, the machine possibly reject some notes due to different thickness. So under CNT mode with DB function ON, the machine is more suitable for counting the same denomination of same currency. In order to ensure the smooth counting, we suggest turn off the DB function. For more detailed information please refer to User Setting.

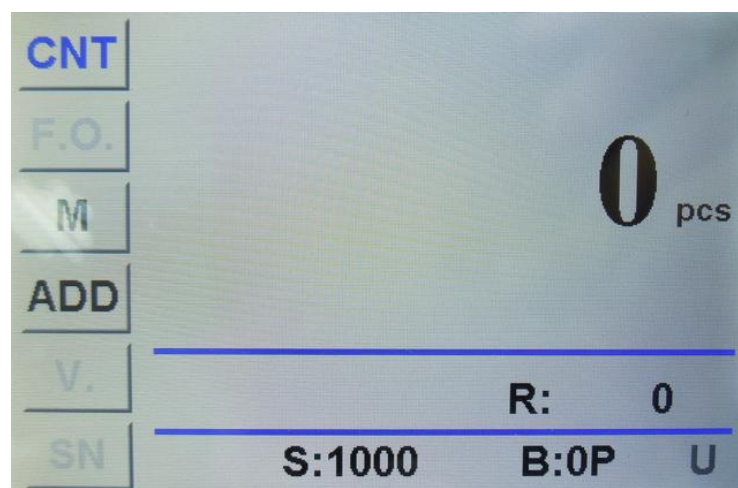


Fig.8

6.4 Quantity Batch and Amount Batch Setting

6.4.1 Quantity Batch (suitable for MIX/SDC/CNT mode)

Under counting interface press  key or click "B: OP" on the touch screen to enter into Quantity Batch setting interface as Fig.9; Click numeric key to enter Quantity setting interface, users can select batch qty from 0 to 200pcs, press OK key to save the setting. The machine will stop automatically when the quantity reaches batch quantity.

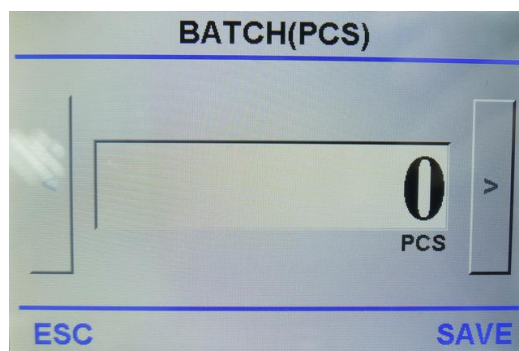


Fig.9

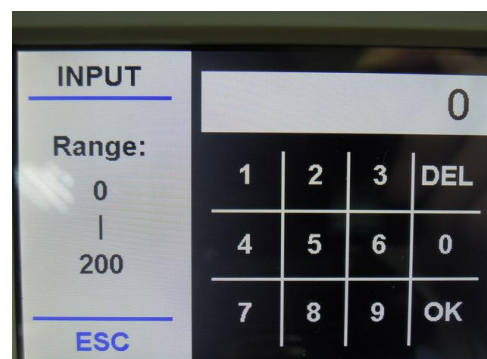


Fig.10

6.4.2 Amount Batch(only available for MIX mode)

Under SDC and CNT mode, the Fig 4 interface will not show the B: setting OP, and can not switch batch mode by press arrow key).

Under Quantity Batch mode press  key on touch screen to enter into Amount Batch setting interface Fig.11, Fig.12:

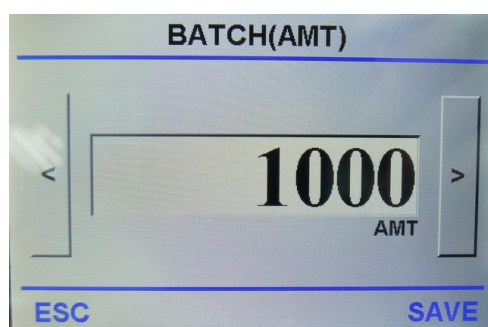


Fig.11

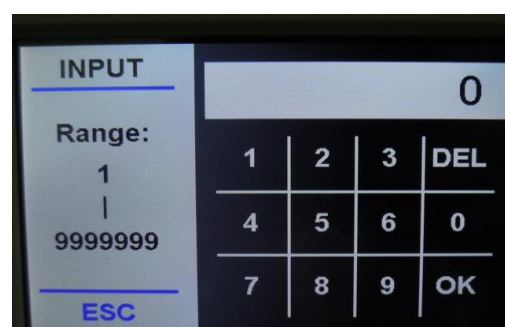


Fig.12

According to the interface prompt please press numeric key to batch amount (1-9999999). After setting press ENTER key to save and exit, the main interface will show B:1500A(it means the amount batch is set at 1500); After setting if press ESC key, the setting is invalid and will not be saved.

6.5 Face/Orientation Sorting Setting

This function is only valid for MIX/SDC mode, the user can settle the face/orientation by pressing  key. Press one time, the main interface will show F., press two times it will show O., press three times it will show F.O., press again to turn off this function. When F. Is turned on, the banknotes with the same face will go to stacker; When O. Is turned on, the same orientation banknotes will go to stacker; When F.O. Is turned on at the same time, the banknotes with same face and same orientation will go to stacker. The F. O. will highlight on the interface, the Fig. 13 shows the machine is under MIX counting mode with face and orientation sorting function turned on.

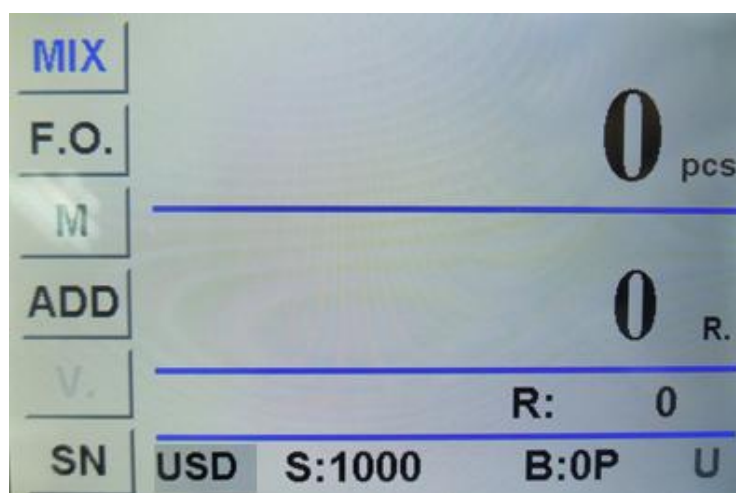
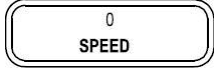


Fig.13

6.6 Counting Speed Setting

The counting speeds has 3 levels to select 1200, 1000 and 800(note: 1200 is only available for CNT mode), the default setting under 3 modes is

1000pcs/min. If you want set the speed, please press  key to switch different speeds under any kind of counting mode. The Fig. 14 shows the speed is 800 under MIX counting mode.

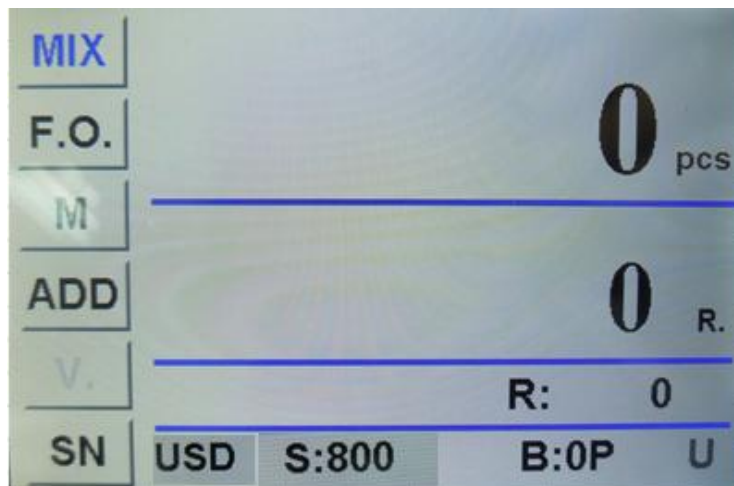
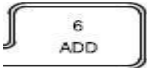


Fig.14

6.7 Accumulation Function

Press  key under any kind of counting mode to turn on accumulation function. The Fig.15 shows the Accumulation function is turned on.

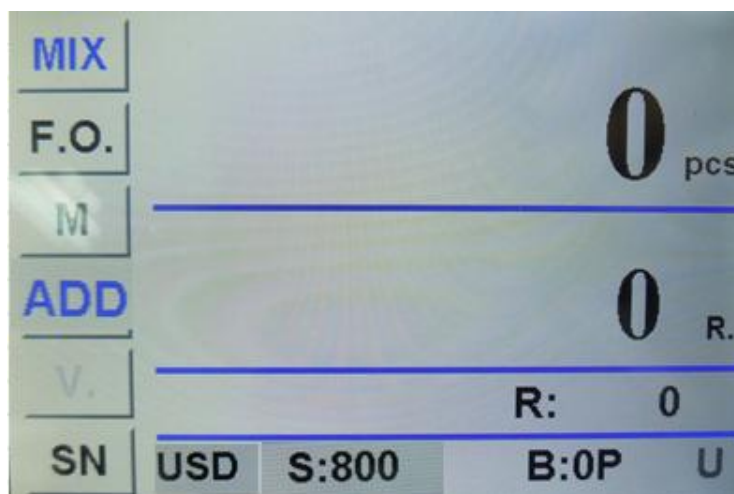


Fig.15

7. Check counting result and printing information

7.1 Check counting result

Under MIX mode or SDC mode, after counting, press  key to check the counting details as shown by Fig.16 :

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

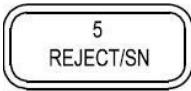
Fig.16

This interface is for checking the quantity and amount for each denomination you counted, as well as the total amount.

7.2 Check Suspected Notes Details and Serial Number

7.2.1 Check Suspected Notes Details

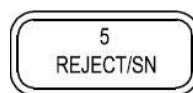
After finish counting, if there are suspected notes in reject pocket and want

to check reject reason, please press  key to enter into following interface(Fig.17) to check detailed information. To exit from current interface you can press ESC key or put notes on hopper to count directly.

REJECT INFORMATION		
Code	Reason	Count
ESC		Total: 0

Fig.17

7.2.2 Check Serial Number



Under the interface of Fig.17 press key to enter into following interface as shown by Fig.18 to check serial number:

SERIAL NUMBER		
No.	Denom.	Serial Number
1	\$50	JC09330601A
ESC		

Fig.18

Under this interface you can read and check the serial number of accepted notes, press arrow key to turn pages. To exit the interface please press ESC key or put the notes to count directly.

Notes: this interface can only show when serial number reading function is turned on(SP:800)

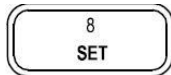
7.3 Printing Information

When external printer is connected and is ready for printing, after counting,



press LIST key to enter into list checking interface, then press key the printer will print the counting list and total amount automatically. Under the interface of serial number reading, press PRINT key to print the serial number.

8. User Setting



Press key to enter into User Setting interface as Fig.19 shows

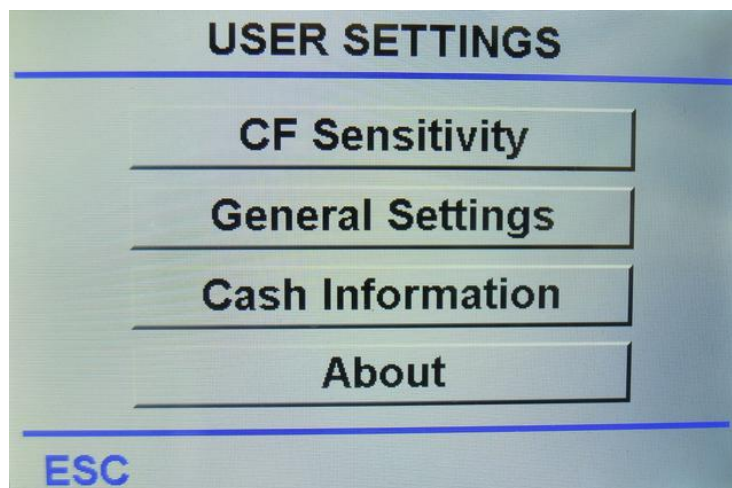


Fig.19

Click the screen to enter into next menu, and press ESC key to return to last menu.

8.1 Counterfeit Detection Setting

Click the touch screen shown as Fig.19 to choose "CF Sensitivity" key to enter



into counterfeit detection setting. Press key in Fig.20 to enter into interface as Fi21.

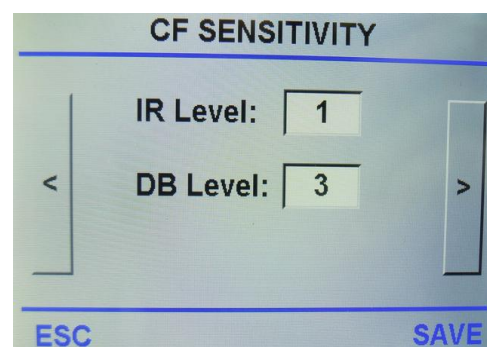
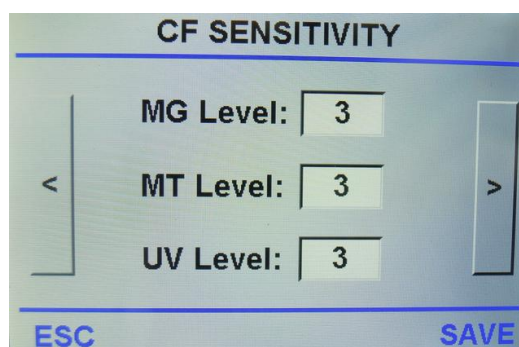


Fig.20

Fig.21

The detailed explanation for each function for Fig.20 and Fig.21 is as below:

No.	Function	Explanation
1	MG	Set the side MG detection level
2	MT	Set the metal thread detection level
3	UV	Set the UV detection level
4	IR	Set the infrared detection level
5	DB	DB level setting

Choose numeric key on the touch screen, and press SAVE key to save the setting, press ESC key to return to last menu. Previous data will not be altered until user press SAVE key.

8.1.1 MG Counterfeit Detection Setting

Under Fig.20 interface, choose right numeric key on the touch screen to enter into MG setting interface as Fig.22 shows:

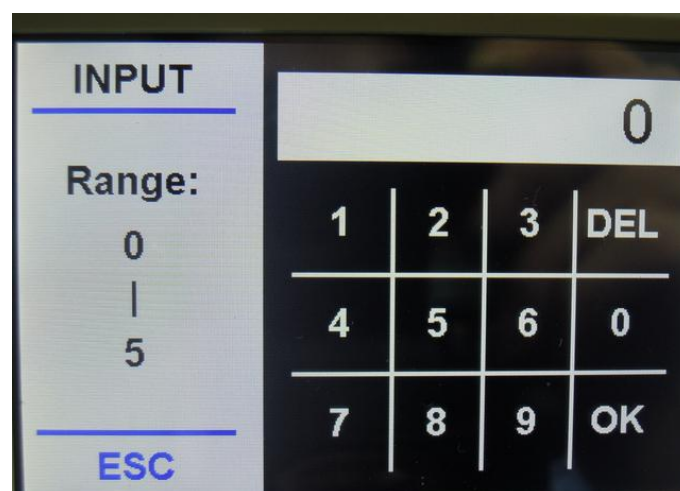


Fig.22

Under this interface there are five different levels for selection and 1 option to disable the detection. The higher the level the more sensitive it is. After choose the proper level press OK key to save setting, the default setting is Level 3.

8.1.2 MT Counterfeit Detection Setting

Under Fig.20 interface, choose right numeric key on the touch screen to

enter MT setting interface as Fig.23 shows

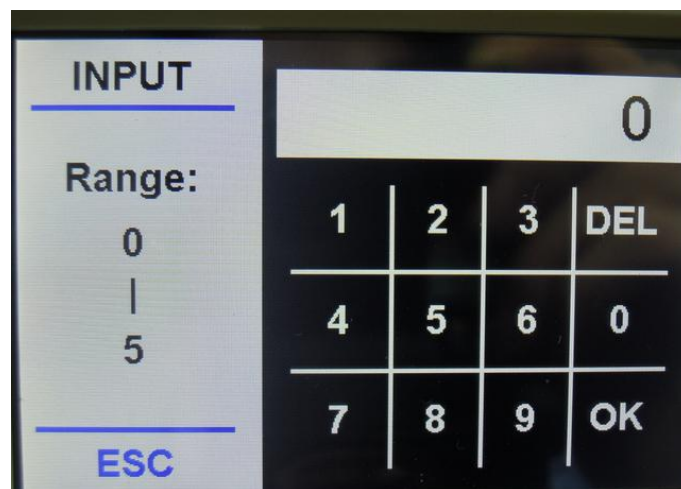


Fig.23

Under this interface there are 5 different levels for selection and 1 option to disable the detection. The higher the level the more sensitive it is. After choose the proper level press OK key to save setting, the default setting is Level 3.

8. 1. 3 UV Counterfeit Detection Setting

Under Fig.20 interface, choose right numeric key on the touch screen to enter UV setting interface as Fig.24 shows

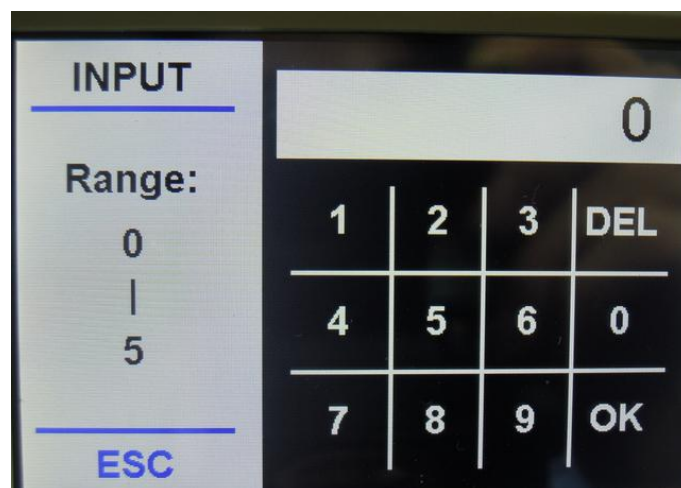


Fig.24

Under this interface there are 5 different levels for selection and 1 option to disable the detection. The higher the level the more sensitive it is. After choose the proper level press OK key to save setting, the default setting is Level 3.

8.1.4 IR Counterfeit Detection Setting

Under Fig.20 interface, choose right numeric key on the touch screen to enter IR counterfeit detection setting interface as Fig.25 shows

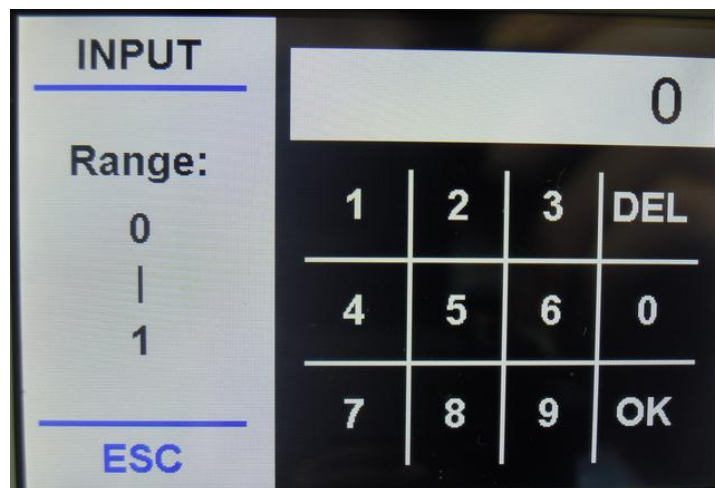


Fig.25

Under this interface there are only two operations: Disable and Enable. After selection press OK key to save setting. The default setting is Enable state.

8.1.5 Double banknotes detection setting

Under Fig.20 interface, choose right numeric key on the touch screen to enter double banknotes detection setting interface as Fig.26 shows

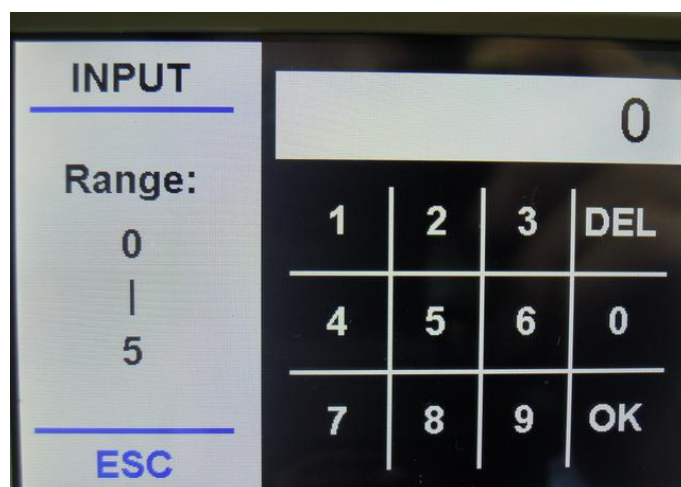


Fig.26

Under this interface there are 5 different levels for selection and 1 option to

disable the detection. The higher the level the more sensitive it is. After choose the proper level press OK key to save setting, the default setting is Level 3.

8.2 Basic setting

Under Fig.19 interface, choose "General Settings" key on the touch screen to enter general function setting as Fig.27 shows

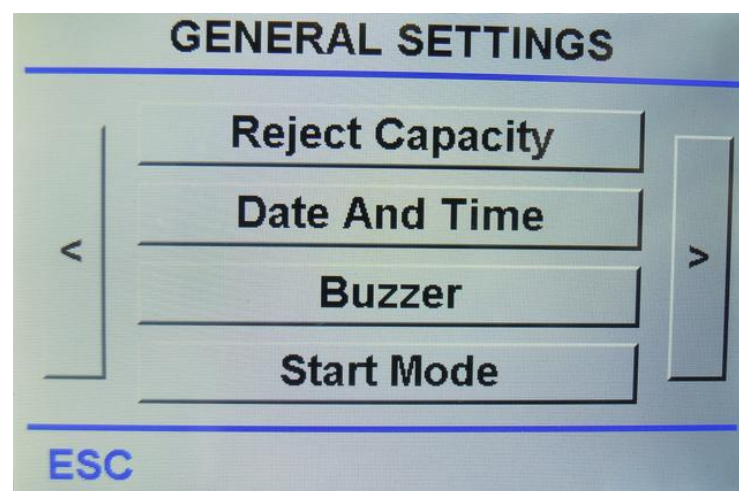


Fig.27

8.2.1 Reject pocket capacity setting

Under Fig.27 interface, choose "Reject Capacity" key on the touch screen to enter reject pocket capacity setting as Fig.27 shows

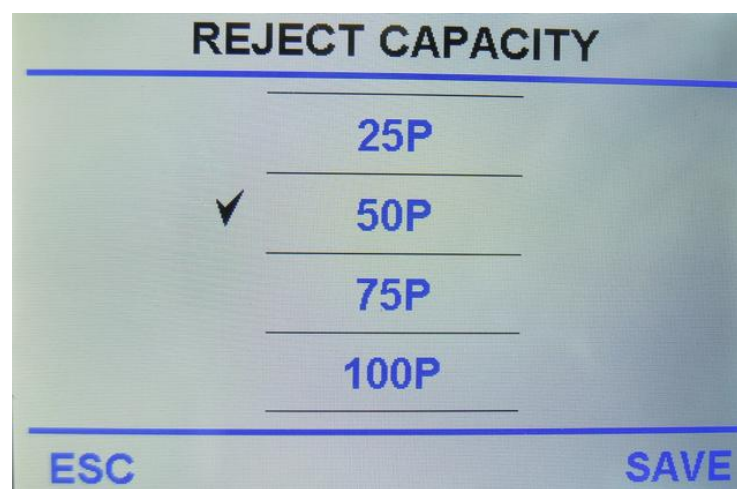


Fig.28

8.2.2 Date & time setting

Under Fig.27 interface, choose "Date And Time" key on the touch screen to enter date & time setting as Fig.29 shows. For example, click numeric key "2016" and press OK key to save the data, then screen will display year 2016 as Fig.30 shows.

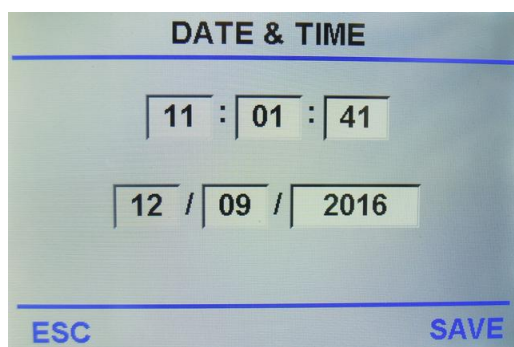


Fig.29

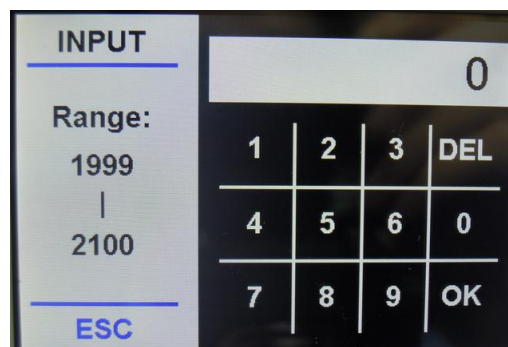


Fig.30

8.2.3 Buzzer setting

Under Fig.27 interface, choose "Buzzer" key on the touch screen to enter buzzer setting as Fig.31 shows

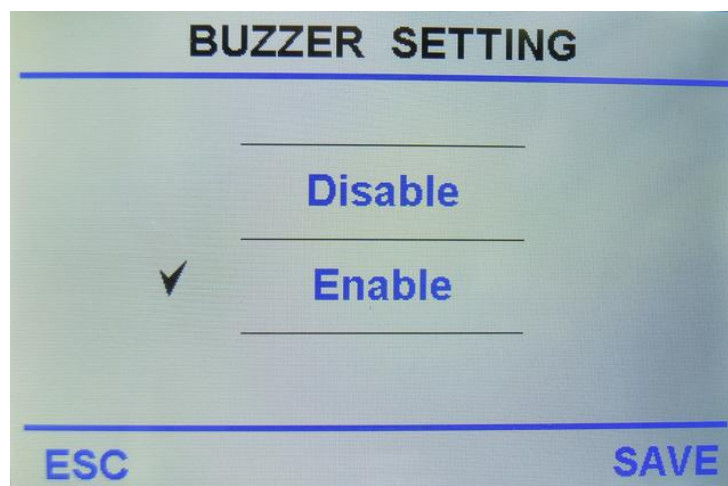


Fig.31

Click the touch screen to enable or disable the interface to set, press SAVE key to save data and return to last menu, press ESC key to exit directly without data-saving.

Default setting is MG counterfeit detection start.

8.2.4 Start mode setting

Under Fig.27 interface, choose "Start Mode" key on the touch screen to enter start mode setting as Fig.27 shows

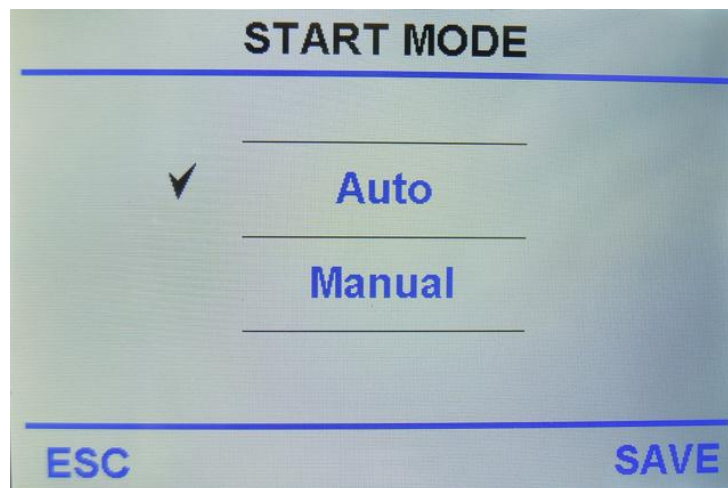
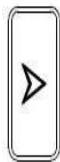


Fig.32

Click Auto or Manual key on the touch screen to choose automatic machine start or manual machine start. After setting, press SAVE key to save. Press ESC will quit from the interface.

The default setting is auto start.

8.2.5 Default setting



Under Fig.27 interface, choose key on the touch screen to enter interface as Fig.27 shows

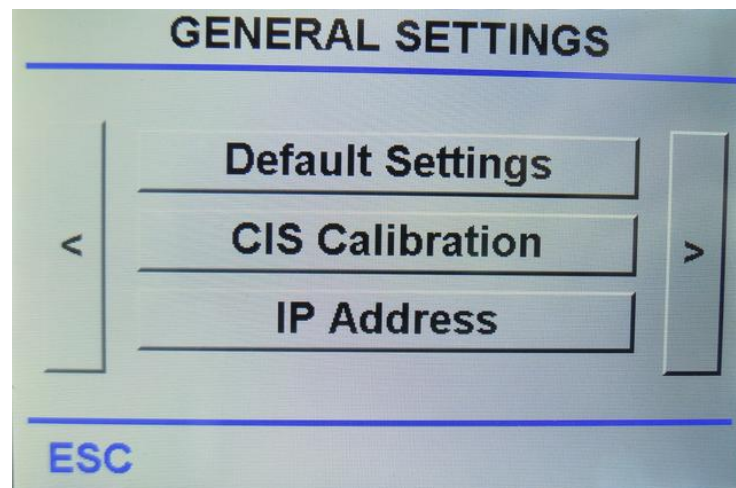


Fig.33

Under Fig.34 interface to click Default setting on the touch screen and press ENTER key to confirm. After inputting the passwords 1234, it will come into the following interface, shown as Fig.35. By choosing HERE key, the machine will enter into default setting state. After restoring successfully, it will display the messages "Default setting is OK!"

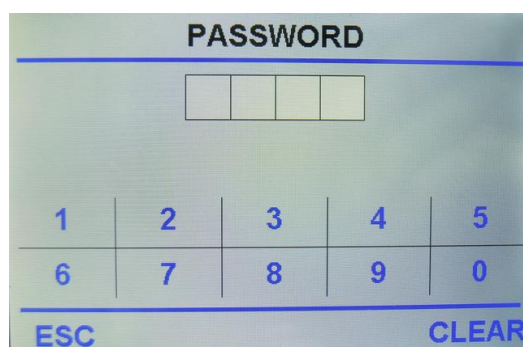


Fig.34

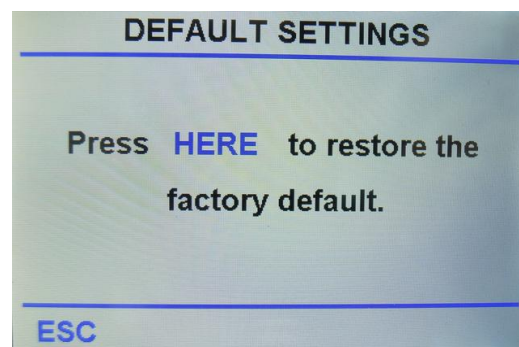


Fig.35

Press ESC key under Fig.35 interface shows to quit data and return to the previous menu.

8.2.6 CIS calibration

Under Fig.34 interface to choose "CIS calibration" on the touch screen. After inputting the passwords 0508, it will come into the following interface, shown as Fig.37:



Fig.36

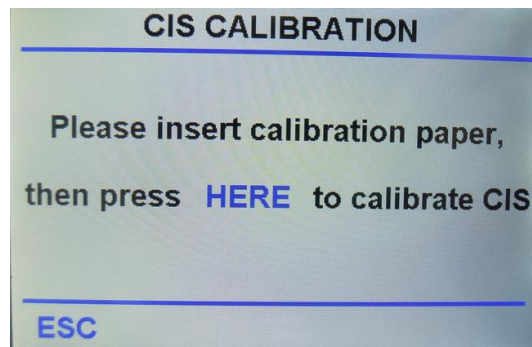


Fig.37

Before you begin the CIS calibration, please make sure you have inserted the calibration paper correctly, otherwise it will cause problem. The calibration paper must cover the whole CIS sensor.

8.2.7 IP address setting

Under Fig.34 interface to choose "IP Address" on the touch screen, shown as Fig.38:

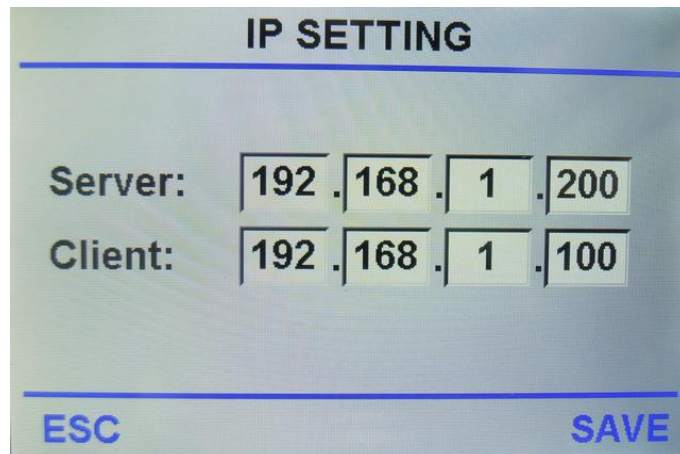


Fig.38

Under Fig.38 interface, click numeric key on the touch screen to set IP address (shown as Fig.39) by referring to following interface, then press SAVE key to save the setting data.



Fig.39

8.3 Image information collection

Under Fig.19 interface to choose "Cash information" setting on the touch screen, shown as Fig.40:

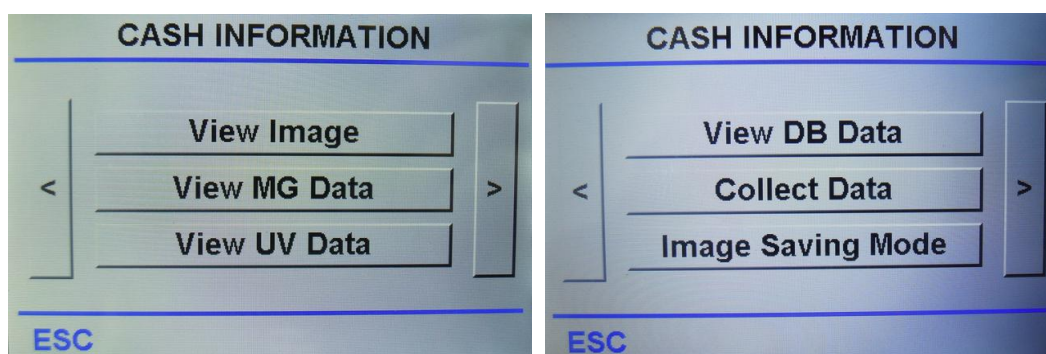


Fig.40

Click the touch screen to view cash information, press ESC key to return to last menu.

8.3.1 Image information collection

Click the touch screen to enter into "View Image" under Fig.40 interface, then screen will display as Fig.41. Put one banknote to count, the display will show its image on the screen, shown as Fig.42.

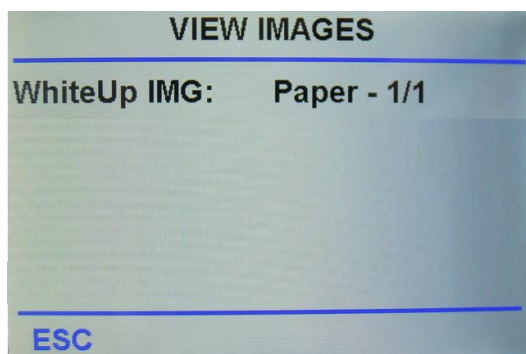


Fig.41

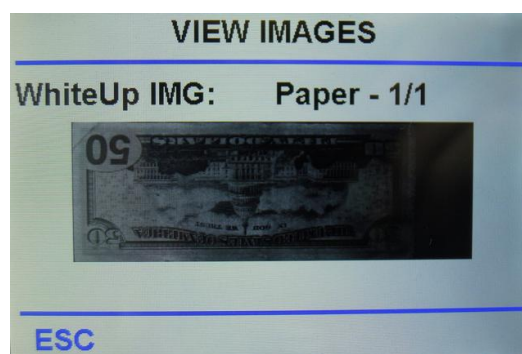


Fig.42

By pressing  or  key to turn on the pages under Fig.42 interface, you will get total five different images.

This image collection function is only valid under MIX and SDC modes.

8.3.2 UV/MG/DB information collection

Under Fig.40 interface to choose “View MG Data、View UV Data、View DB Data” one by one, you could collect the banknote’s UV/MG/DB information, shown as Fig.30, of which method are similar to image information collection.

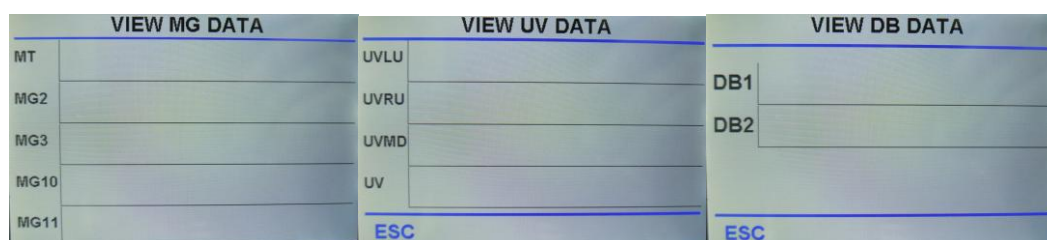


Fig.43

8.3.3 Image saving setting

Under Fig.40 interface to choose “Collect Data” setting on the touch screen, shown as Fig.44:

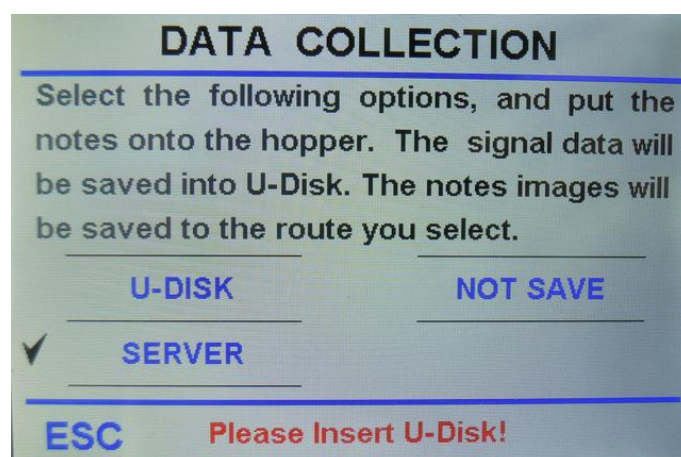


Fig.44

Put banknote to count under interface Fig.44 after choosing saving method (Notes: please make sure the USB flash drive is well inserted). If quantity is over than 10pcs, then machine will count 10pcs automatically, and stop working after counting quantity reaches. At the same time, UV/MG/DB information of all banknotes will be saved automatically, shown as Fig.44. When all image information is collected, the machine will continue to count next batch and repeat collection process. After image saving, it will create automatically files named CASHINFO under root directory of USB, all images will be saved to the file according to date.

***Notes: As image saving process for such a large file will take a long time, please wait patiently.**

8.3.4 Image saving setting

***Notes: Before you collect the images, please make sure the USB flash drive is well inserted. There will be a sign of "U" on the bottom right screen corner if the drive is successfully connected, shown as Fig.45.**

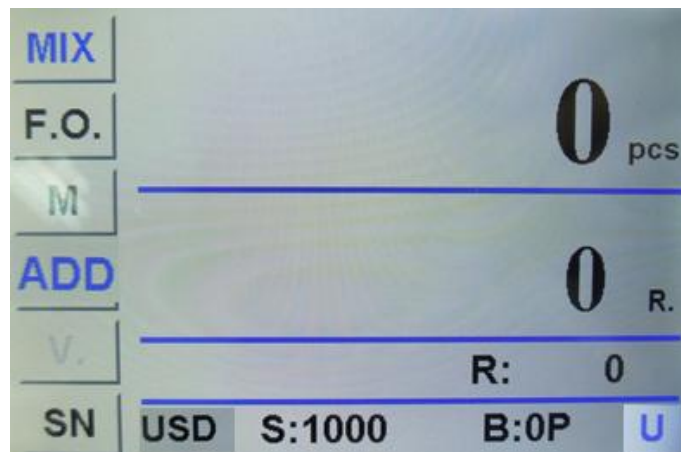


Fig.45

Under Fig.40 interface to choose "Image Saving Mode" setting on the touch screen, shown as Fig.46:

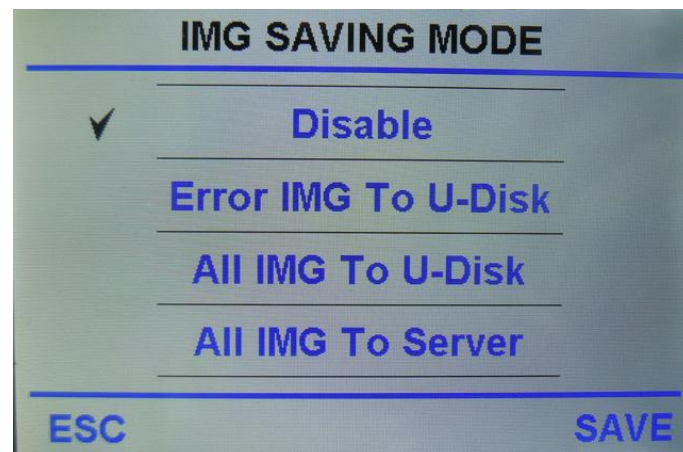


Fig.46

The default setting is saving disable. Item 2 is only to save error images for those rejected banknotes from the reject pocket to USB flash drive. Item 3 is to save all images for all counted banknotes from both reject pocket and stacker to USB flash drive. After image saving, it will create automatically files named IMGERR(for error images only) and IMGALL(for all images), all images will be saved to the file according to date.

After image collection is finished, the screen will display main menu automatically. But please note that the whole process will take a long time, so please wait patiently.

8.3.5 Software version review

Under Fig.19 interface to choose "About" setting on the touch screen, shown as Fig.47 to view the software version.

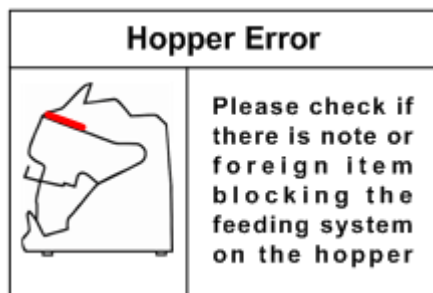


Fig.47

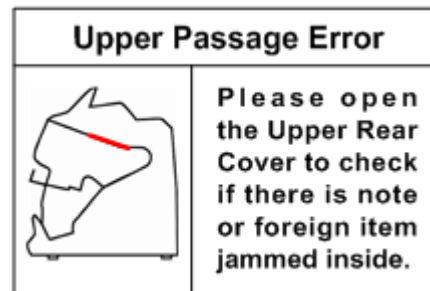
9. Troubleshooting

9.1. Common errors

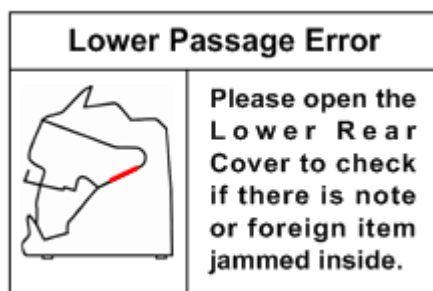
During use of machine, sometimes you may meet some abnormal situation and the machine cannot work normally, and the machine will display error messages. The following sheet shows the error message, possible reason and detailed solution. Please do trouble shooting according to the following solution. If you can not solve the problem with the provided solution, please contact your local distributor.



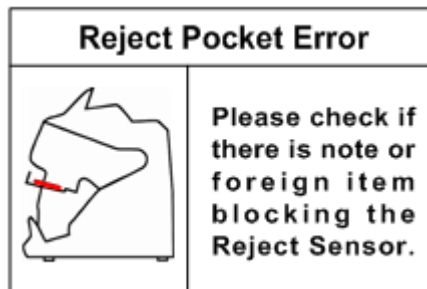
QT Sensor Error



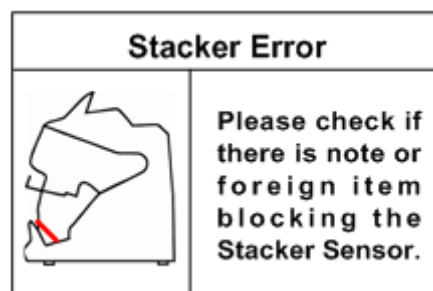
PS1 Sensor Error



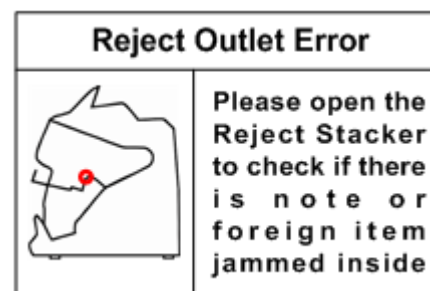
CNT Sensor Error



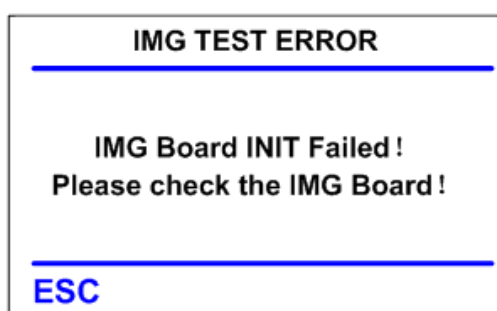
Reject Sensor Error



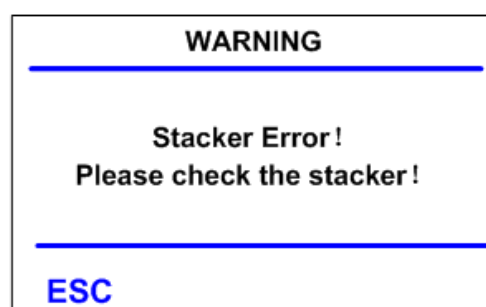
FL1 Sensor Error



CNT Sensor Error



IMG Board connect unsuccessfully



Banknote exist in stacker hopper

Fig48

9. 2 Banknote jamming and solution

If the notes get jammed during counting progress, there will be warning messages displayed on the screen. You need to take out the jammed notes firstly and then press START key to check if there is still hidden jammed notes. Last, press CLEAR key to clear warning message. If the machine still displays "JAM", you will need to open the machine and take out the notes from interior passage.

Once jamming happens, please recount the notes to avoid counting mistake.

*After clean the sensor and passage well, please press " " key to clear the error interface and enter into main interface to go on counting.

*If after checking, there is no foreign items blocking the sensor, and after press " " key there is still error interface, please refer to service manual to do trouble shooting.

Error code list:

Error code	Explanation
Stacker Full	The stacker is full
MG Quantity	Side MG quantity is not correct
MG Position	Side MG position is not correct
MT Quantity	Middle MG quantity is not correct
MT Code	Middle MG code is not correct
UV	UV mark is abnormal
Double	Double note is detected
Half	Half note is detected
Long	Banknote image is too long
Short	Banknote image is too short

Gap	Chain notes are detected
IMG Timeout	Image processing is timed out
IMG Size Unknow	Image size is unknown
IMG ORT Unknow	Image orientation is unknown
IMG Version	Image version is not correct
IMG FACE	Face image is not correct
IMG ORT	Orientation image is not correct
IMG Angle	Image angle is not correct
IR OVD	OVD image is not correct
IR MT	IR metal thread is abnormal
IR Hole	Hole is detected
IR Dog-Ear	Dog-ear image is detected
IMGDIRT	Dirty image is detected
IRFeature1	IR feature 1 is detected
IRFeature2	IR feature 2 is detected
IRFeature3	IR feature 3 is detected
IRFeature4	IR feature 4 is detected
IRFeature5	IR feature 5 is detected
IRFeature6	IR feature 6 is detected
IRFeature7	IR feature 7 is detected
IRFeature8	IR feature 8 is detected
IMG FACE ORT	Image face and orientation is abnormal

OCR1	Serial No.is wrong 1
OCR2	Serial No.is wrong 1

10. Software Upgrade

This model adopts flash drive (USB) upgrading method for software upgrade. Please copy the upgrading file into the flash drive, and insert the flash drive into the USB port at the back of machine. Hold on pressing the START key, and then turn on the power switch, you will find the choosing interface as follows:

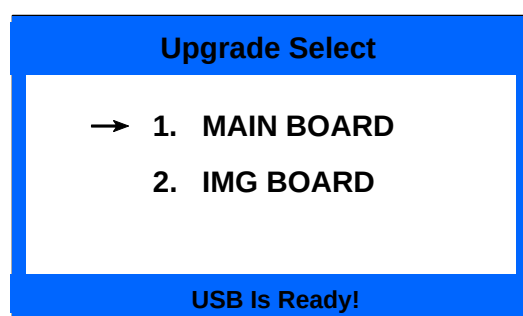


Fig.49

Select upgrade item

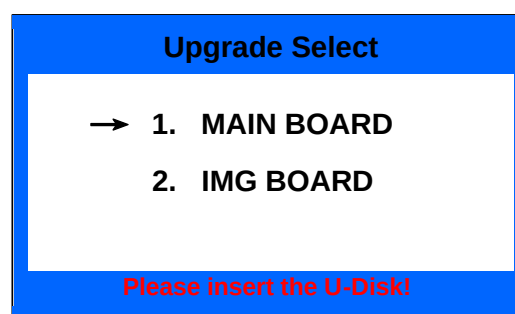


Fig.50

USB is not connected

***If the USB flash drive is inserted well, the display will show "USB is Ready!", otherwise it will show "Please insert the U-Disk!".**

For the upgrading file, it is not allowed to change its name and format, otherwise will cause upgrade failure.

10.1 MAINBOARD upgrading

Under interface Fig.38, press  or  key to choose "1.MAINBOARD", and then press ENTER key to start software upgrading, shown as Fig.51. If there is no software file or file name is not correct, it will display warning messages

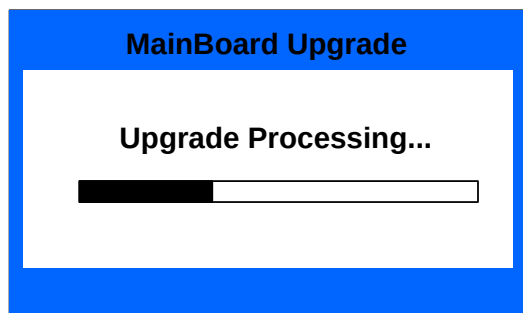


Fig.51

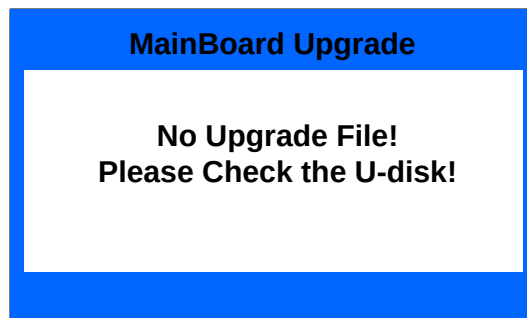


Fig.52-A

MainBoard-No upgrading software



Fig.52-B

ImageBoard-No upgrading software

After software upgrade, please restart the machine referring to the following message.



Fig.53

10.2 IMAGEBOARD upgrading

Under interface Fig.49, press  or  key to choose "1.MAINBOARD", and then press ENTER key to start software upgrading. If there is no software

file or file name is not correct, it will display warning messages shown as Fig.52-B.

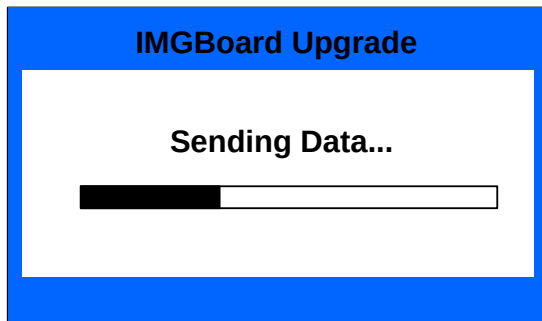


Fig.54

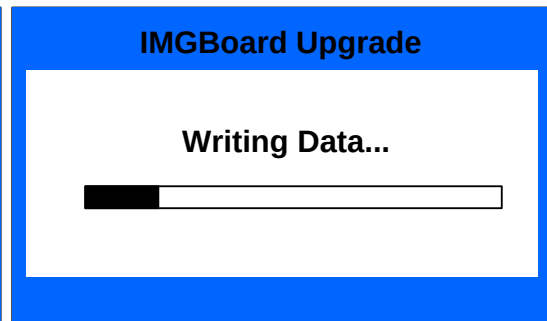


Fig.55

After software upgrade, please restart the machine referring to the following message.



Fig.56

11. Image Collection through PC

11.1 Operating Environment of PC Software

Please find file  and open it, run the program  , this software can only operate in windows XP or more higher system, and you need to also install .NET4.0 operation environment. Please check C:\WINDOWS\Microsoft.NET\Framework, if there is a file named v4.0, if not, please install the NET4.0 software included in the CD.

11.2 Configure the IP Address

11.2.1 Configure the IP address of PC

- a) Windows xp system: Please set the IP address as below picture and save it

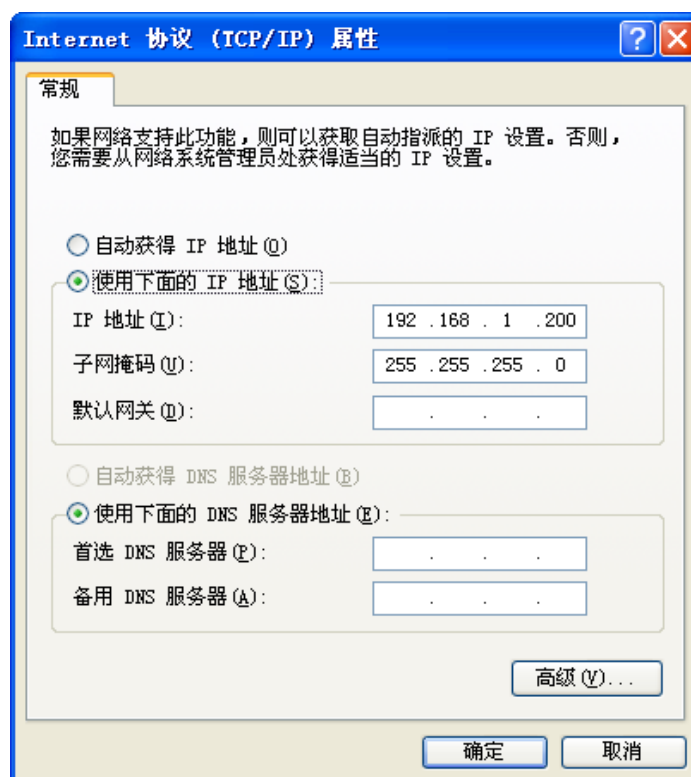


Fig.57

- b) Windows 7 system: Please set the IP address as below picture and save it

11.2.2 Machine setting and IP address setting

- a) Go to the user setting mode User Settings---Cash information --- Image Saving Mode and make the setting as Fig.58, choose ALL IMG To Server.



Fig.58

- b) Go to the user setting User Settings---General Settings---IP Address and set the IP address as Fig.59

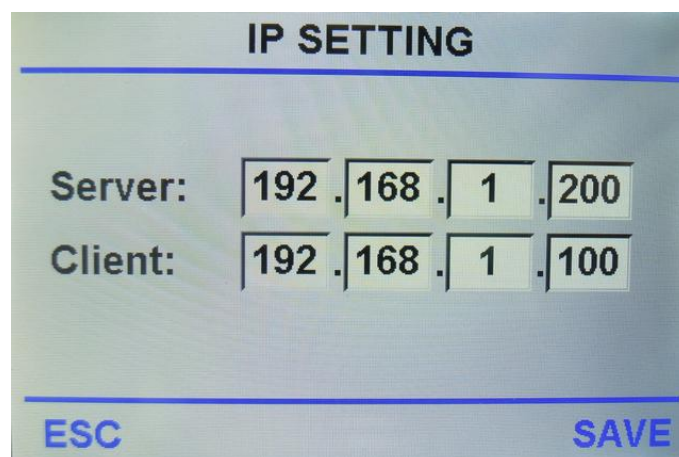


Fig.59

11.3 Banknotes image collection

After above setting, please use the network cable provided the machine to connect machine and PC, and collect the banknotes images information according to below steps:

Go to the user setting mode to set the data save method as Fig.60, under this interface put the notes into the hopper, the machine will collect images automatically and save into "Data" file.

Please collecting, please insert the U disk into machine, it can collect the MG, UV and DB data into the U disk.

Notice: you'd better count no more than 50pcs notes at one time

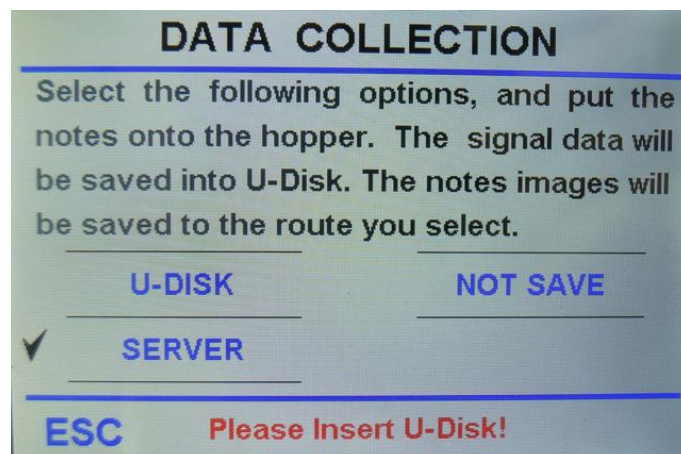


Fig.60

12. Daily Maintenance

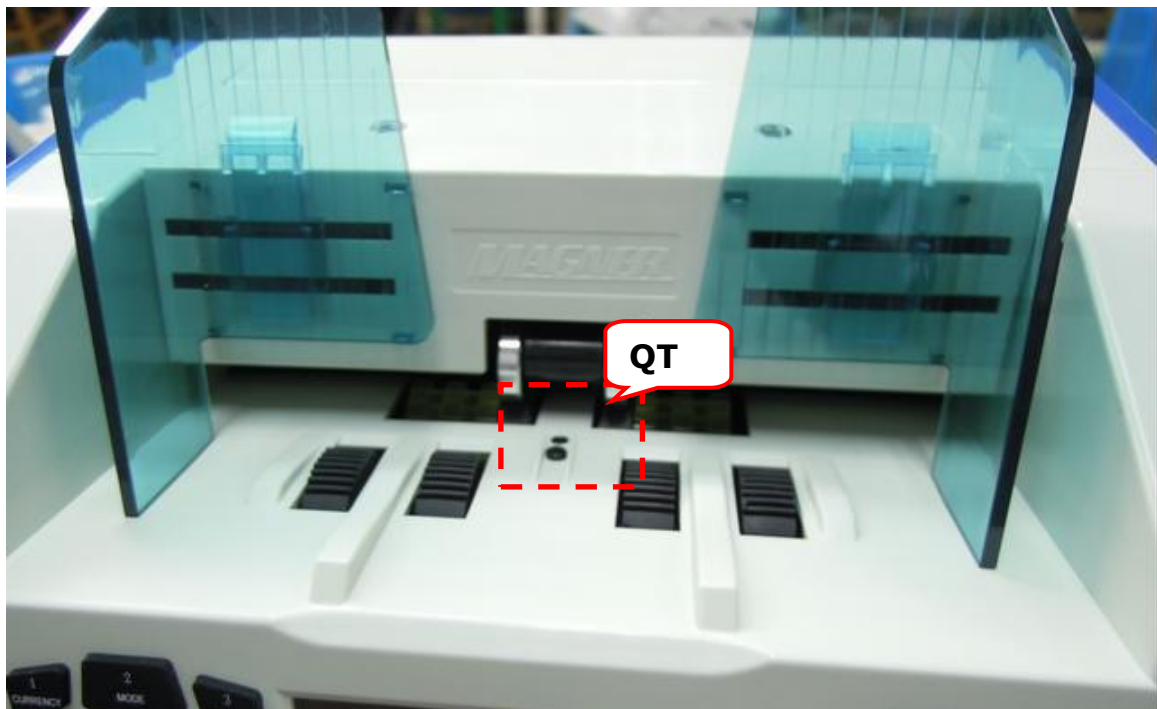
Any dust, dirty objects or other substances can stick to the sensors and disturb the normal work of the sensors and then cause inaccurate counting result, so please clean the sensors and rollers everyday with the provided cleaning kit.

Please turn off the power switch before starting the cleaning in order to avoid any risk of electric shock or other injury.

Please do not use any chemical agent or water such as benzene, thinner which may cause the color fading or crack of the machine.

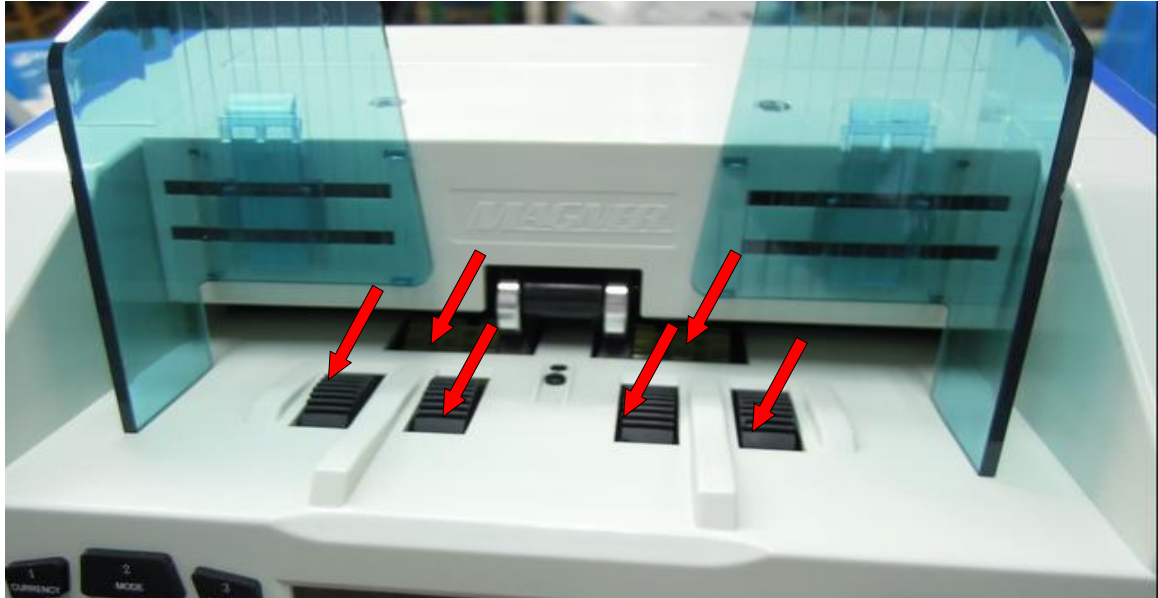
12.1. Clean the hopper sensor

Please use a brush or clean cloth to clean the hopper sensor(QT).



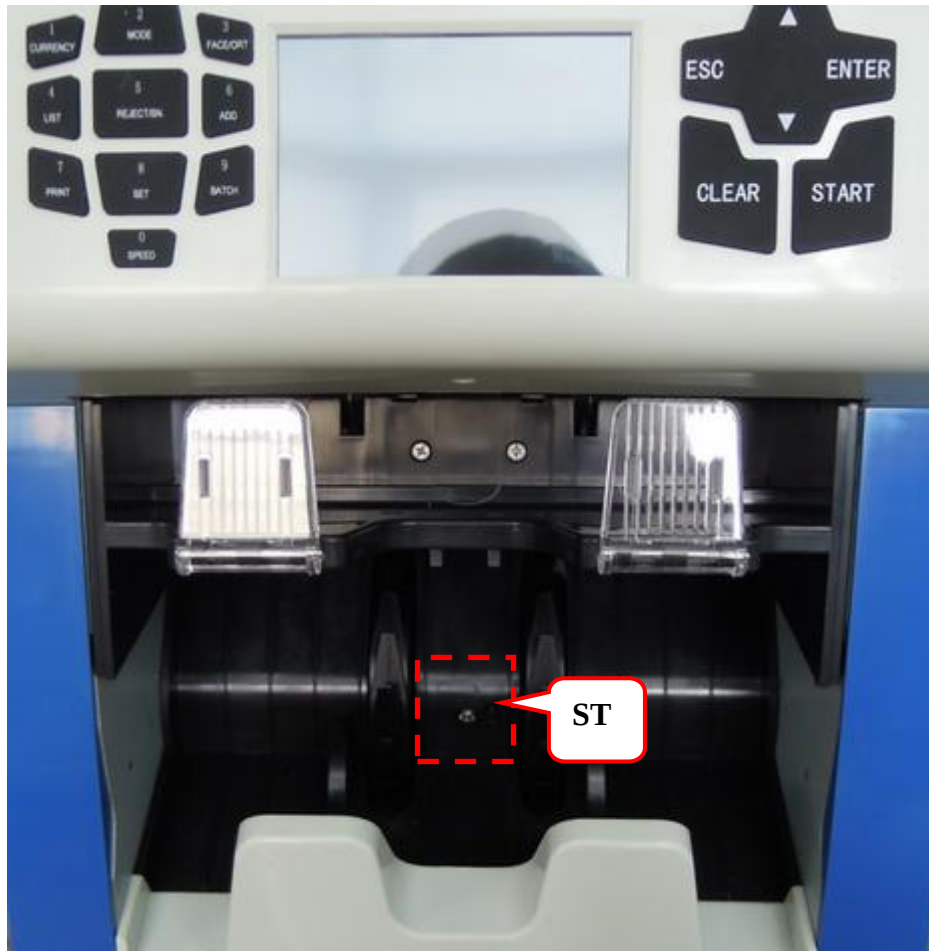
12.2. Clean the drum roller shaft and feed roller shaft

Please use a brush or clean cloth to clean the drum roller shaft and feed roller shaft



12.3. Clean the leak sensor

Please use a nylon brush or clean cloth to clean the leak sensor (ST), circled in below picture.

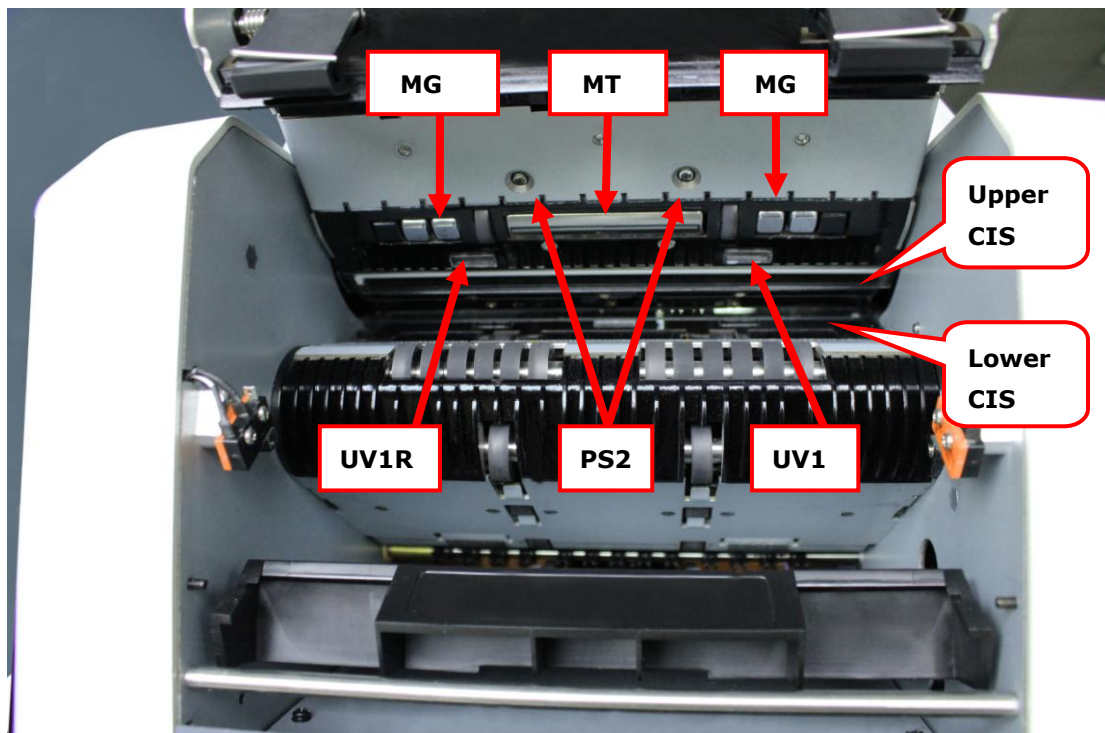


12.4 Clean the inside sensors

- 1) Pull the button to open the back cover.

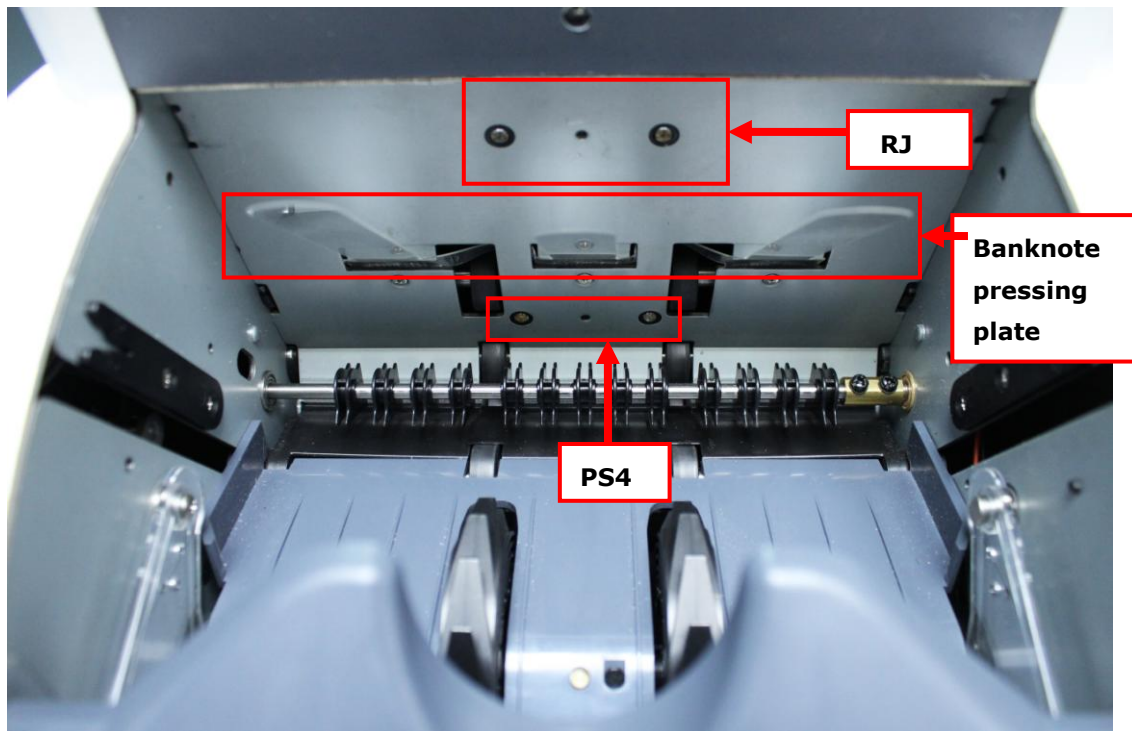


2) Clean the following sensors: PS2, MG, MT, CIS and UV1.



3) Clean the following sensors **PS1, UV2M, PS3 and brush shaft**.

4) Take out the reject pocket as following picture and then clean the sensors PS4 & RJ. When you install back the reject pocket, you must protect the banknotes pressing plate.



13. Accessories

1. Power Cord	1PCS
2. Nylon Brush	1PCS
3. Operation Manual	1PCS
4. Calibration paper	1PCS
5. External Display (Option)	1PCS
6. External Printer (Option)	1PCS

***** In the interests of our policy of continual product improvement, specifications are subject to change without notice *****