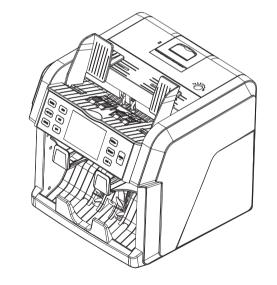


Multi-Currency Discriminator
Operation Manual
AS280 B

# Multi-Currency Discriminator Operation Manual **AS280 B**





## Preface

Thank you for choosing our products! It is an accurate, reliable multi-currency banknote value counter, the structure design and performance are more scientific and the operation is extremely smooth and vibration free. It defines a new standard of banknote counting machines with sorting functions.

In order to make the best use of the accurate banknote counting/sorting capability of the unit, please read this manual carefully before using and operate as per the procedures stipulated in the manual.

## **Safety Instruction**

To avoid damage to the machine and personal injury, please read all warnings and cautions carefully before first use.

## The marks and the introduction of the warning

This is a warning that if you ignore this warning, it will result in personal injury.

This symbol indicates what should be noticed when operate the machine. Please read the instructions carefully and use this product safely. The symbols are

This symbol indicates prohibited items. Please read the instruction carefully and never operate the items which are prohibited. The symbol is

This symbol indicates the items which should be operated. Please read the instructions carefully and do as required. The symbols are

# Safety attentions: should be observed before operation

Warning: about installation

When installing and moving this machine, please put it in a flat table with enough space; otherwise the unit will





overturn and lead to some danger.

On not put the machine in the place where is closed to water, in case some water will into the unit and lead to some danger, for example: the unit cannot work normally, and will lead to the fire disaster or electric shock.

# 

When using this machine, please use the specified power cable. If not, it will lead to some damage to the machine, fire disaster or electric shock.

A Please do not do some change on the power cable by yourself, in case it will be improper grounding and lead to some damage and electric shock.

Please use the qualified socket; otherwise the power cable will be overheat and lead to burn out or fire disaster.

# Marning: about usage

When the machine is working, do not cut off the electricity, do not pull out the power cable or open the back drawer, in case some danger happened.

When do some cleaning or replace some parts, please cut off the power before operation, in case some danger happened.

When the machine is working, do not put hands or let the cloths close to any running wheel, in case the fingers or cloths being nipped in the machine.

For the sake of safety, if there is a long time not using this machine, please remove the power cable from the power socket.

If the machine is smoking, giving off some peculiar smell or have some strange noise, please stop using this machine and remove the power cable, then contact with the maintenance center.

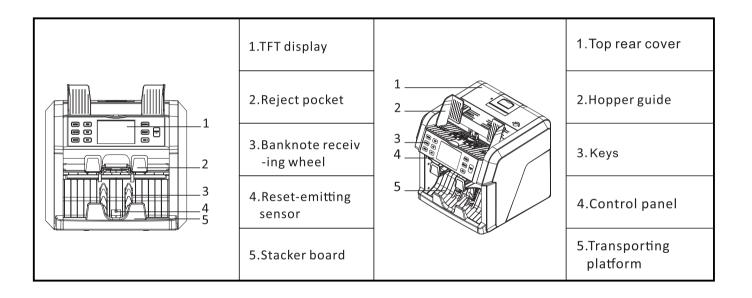
# Content

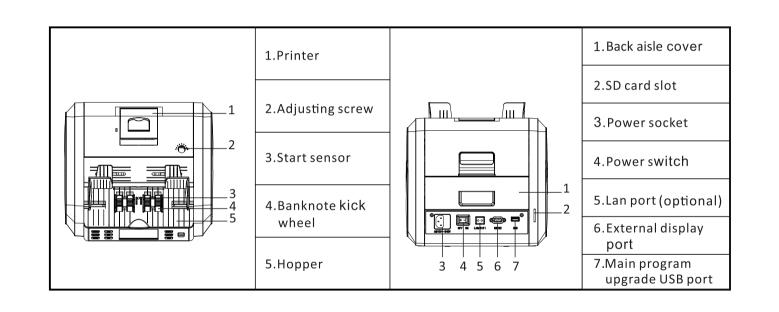
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# 1. The introduction of the main parts









# 2. Features

- 2.1 With IR, UV, MG, CIS (Image) detection, etc.
- 2.2 Accurate serial number recognition, storage and management.
- 2.3 Multi-currency mixed counting. Banknotes can be processed in all four orientations.
- 2.4 With built-in printer: can print out the serial number and the counting report
- 2.5 High-capacity hopper, stacker and reject pocket, count and sort without stop.
- 2.6 ADD function, batch function, reporting and printing function are available.
- 2.7 With 5 kinds of counting modes: MIX, SINGLE, FACE, ORIENT, COUNT modes.
- 2.8 Easy software upgrade via U drive or SD card

# 3. Specifications

Voltage/Frequency/Current	100~240V AC、50/60Hz 、500mA
voltage/11equelley/eartent	100 2407/101 00/00/12 1 000////
Currency	Standard: USD, EUR, GBP, + (other local currency)
Power Consumption ≤80W	
Counting Speed	800, 1000, 1200pcs/min (MIX mode≦1000 pcs/min)
Hopper Capacity	500pcs
Stacker Capacity	200pcs
Reject Pocket Capacity 50pcs	
Batching range	1-200PCS
Net Weight	10kg
Dimension	280mm×280mm×296mm
Package Size 390mm×325mm×400mm	





# 4. The introduction of the main display and keys

# 4.1The introduction of the main display

NO.	Introduction				
1	Currency and national Flag		;	5	6
2	Counting modes: COUNT, FACE, ORIENT, SINGLE, MIX	1	2	3	4
3	ADD: Accumulation function	USD	MÏX	ADD	B:
4	Batching number	PIECE	'C'	l .	0
5	Counting number	LIECE	10		
6	Total value	VALUE			
7	Suspicious note number	VALUE			U
8	Serial Number (the unit should with dual CIS to have this function)	LUTO A	SN: Z75773160M		17:08:00 2020-05-28
9	Automatic/Manual counting	1010	'SP1		
10	Speed showing	7	8		10
11	Sound showing	9	10 11		12
12	Time & Date				

# 4.2 The introduction of the keys

		ERROR	ADD	MENU •	
		+1/+10	PRT	MODE†	RESET
		BATCH	RPT	CUR ↓	
NO.	Key	Function			
		1. Press this	key to selec	t different curre	ncy.
1	CUR ↓	2. In the Mer	nu Interface,	press this key to	o select the next choice.
'	COK V	3. When do s	some setting	, press this key	to decrease "1". If long
		press this ke	y,the sensiti	vity level can be	e decreased continuously.
		1. Five count	ting modes:N	ЛІХ, SINGLE, F	ACE, ORIENT, COUNT
2	MODE†	2. In the Men	u Interface,	press this key to	o select the front choice.
	WIODET	3. When do some setting, press this key to increase "1". If long press			
this key, the sensitivity level can be increased continuou				ased continuously.	
3	ADD	Press this key to turn on/off the accumulation function.			





4	+1/+10	In the batching mode, short press this key is to increase "1"; if long press this key is to increase "10".
		· · · · · · · · · · · · · · · · · · ·
		1. Press this key can turn on/off the batch function, and if press again,
5	BATCH	the user can select the batching number among "100, 50, 20, 10, off".
	BATTELL	2. If the batching number shows"", which means the batch
		function is "off".
	MENU <b>◆</b>	1. Press this key to enter into the menu Interface.
6	MENUS	2. Press this key to return to the previous interface.
		Press this key to enter into the report interface. (the first press is to
_	DDT	check the total report, press again is to check the serial number,
7	RPT	and if you want to go to the next page of the detailed report, you can
		also press this key)
	PRT	
8		When in report interface, press this key to print out the current report.
		Toport.
9	ERROR	Press this key to check the error message of the suspicious notes.
		·
	RESET	1. Press this key to save and exit the setting.
10		2. In the menu interface, press this key to confirm.
		O December 1 to 1 t
		3. Press this key to move to the next selection.

## 5. The introduction of the MENU

Press MENU<sup>5</sup> to enter into the menu interface, which including 8 choices(Pic 5-1-1/Pi c 5-1-2).

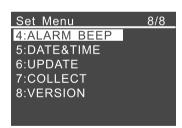
The user can press MODET or CUR 1 to make the selection, then press RESET to confirm.

- ①SPEED: counting speed setting
- ②SERI NO: serial number setting and checking
- ③LIMIT/SET: sensitivity level setting
- **4**ALARM BEEP: alarm beep setting

Set Menu	1/8
1:SPEED	
2:SERI NO	
3:LIMIT/SET	
4:ALARM BEEP	
5:DATE&TIME	
6:UPDATE	

Pic 5-1-1

- ⑤DATE&TIME:date format & time setting
- **©UPDATE:** software upgrade setting
- **⑦COLLECT**: data collection
- **®VERSION:** version checking



Pic 5-1-2





# 5.1 SPEED

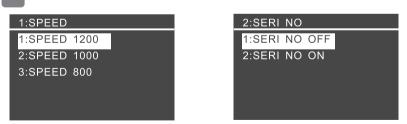
Press RESET to enter into the counting speed setting (Pic 5-2).

Press CUR + to select a counting speed, then press to confirm; at last, press MENU® to back to the previous interface.

#### 5.2 SERI NO

Serial number looking up setting:

Press RESET to enter into the serial number checking interface (Pic 5-3). And the user can press CUR + to make a selection, and press COR + confirm. After done, press MENU+ to back to the previous interface.



Pic 5-2 Pic 5-3

5.2.1: SERI NO OFF: choose this selection is to turn off the serial number recognition, press to save, then press to back to the previous interface.
5.2.2: SERI NO ON: choose this selection is to turn on the serial number recognition, press to save, then press to back to the previous interface.

## 5.3 LIMIT/SET

Press RESET to enter into the limit setting(Pic 5-4), and press to make a selection, then press CUR + or

MODET to "+1" or "-1". After setting, press RESET to save and it will move to the next sensitivity level setting.

If the user do not want to do other setting, please press MENU® to back to the previous interface.



Pic 5-4





- **5.3.1 MG**: MG sensitivity level setting, "MG--0" is off, "MG—19" is the highest. The default is "MG—5".
- **5.3.2 DD**: DD(size) sensitivity level setting, "DD--0" is off, "DD—9" is the highest. The default is "DD—5".
- **5.3.3 DB**: double note sensitivity setting, "DB--0" is off, "DB—9" is the highest. The default is "DB—5".
- 5.3.4 UV :UV sensitivity level setting, "UV--0" is off, "UV-9" is the highest. The default is "UV-5".
- 5.3.5 UVwid: UV intensity sensitivity level setting, "UN--0" is off, "UN-9" is the highest. The default is "UN-5".
- **5.3.6 Slope**: Slop sensitivity level setting, "Slope--0" is off, "Slope—16" is the highest. The default is "Slope--10".
- **5.3.7 IR**: IR sensitivity level setting, "IR--0" is off, "IR—9" is the highest. The default is "IR—9".
- **5.3.8 AUTO:** AUTO/MUNL counting setting. "0" is the manual counting, "1" is the automatic counting, "2" is also the automatic counting, but the display will not show "A".

## **5.4 ALARM BEEP**

Press reset to enter into the alarm beep setting (Pic 5-5). Press or Model to choose, then press to save and

press MENU® to back to the previous interface.

- **1.BEEP ON:** turn on the alarm beep and key click sound.
- 2.BEEP OFF: turn off the alarm beep and key click sound.



Pic 5-5





## 5.5 DATE & TIME

Press reset to enter into DATE&TIME setting (Pic 5-6-1), and press model or cur to choose, then press confirm.

After setting done, press MENU® to back to the previous interface.

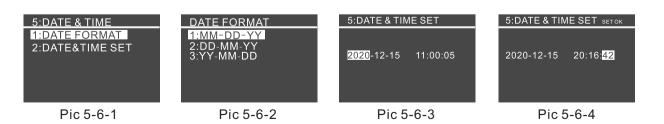
#### 5.5.1 DATE FORMAT

Press RESET to into DATE FORMAT(Pic 5-6-2), and press MODET or CUR + choose the date format you need, then press

confirm. After setting done, press MENU® to back to the previous interface.

#### 5.5.2 DATE & TIME SET

Press RESET to into DATE&TIME SET(Pic 5-6-3), and press to move to the next setting till the display shows "set ok" after setting(Pic5-6-4), then press MENU® to back to the previous interface.



#### 5.6 UPDATE

Press to enter into the update interface(Pic 5-8-1). Press MODET or CUR to make a selection, then press to confirm. After done, press MENU® to back to the previous interface.

Note: before update, please insert the SD card(with new software) into the SD card slot, and also should make sure that it shows "SD OK" on the top left.





Pic 5-8-1 Pic 5-8-2

## 5.6.1 MB Update (main board update)

Please copy the update software (APPU file) in the SD card, then insert the SD card into the SD port (back side of the machine). Choose "MB Update" press to enter into the software upgrade interface, the machine will update the software automatically, wait for the updating till the display will show "Reboot", which means the upgrade is finished, refer to Pic 5-8-2. At last, restart the machine.





Or you can copy the update software (APPU file) into USB, and insert the USB into the USB port (back side on the machine), then turn on the machine, the machine will show on interface (5-8-3), after done, please restart the machine.

## 5.6.2 DB Update (display software update)

Please copy the update software in the SD card, then insert the SD card into the SD port(back side of the machine).

Choose "DB Update" press RESET to enter into the software upgrade interface (5-8-4, 5-8-5), the machine will update

the software automatically, till the display will show "receive OK!!", which means the upgrade is finished. At last, restart the machine.







Pic 5-8-3

Pic 5-8-4

Pic 5-8-5

## 5.6.3 PIC LOGO (picture/logo update)

Please copy the update software in the SD card, then insert the SD card into the SD port(back side of the machine).

Choose "PIC Logo" press to enter into the software upgrade interface (5-8-6, 5-8-7), the machine will update the software automatically, till the display will show "receive OK!!" (5-8-8), which means the upgrade is finished. At last, restart the machine.







Pic 5-8-6

Pic 5-8-7

Pic 5-8-8





## 5.6.4 PIC ERR (the picture of error notice update)

Please copy the update software in the SD card, then insert the SD card into the SD port(back side of the machine).

Choose "PIC Err" press reserve to enter into the software upgrade interface (5-8-9, 5-8-10), the machine will update the software automatically, till the displaywill show "receive OK!!" (5-8-11), which means the upgrade is finished. At last, restart the machine.







Pic 5-8-9

Pic 5-8-10

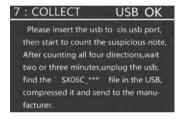
Pic 5-8-11

## 5.7 COLLECT (banknote data collection)

Notes: before collect the data, please insert the U drive into the USB port (in the backside of the machine).

Press MENU® to enter into the menu(Pic 5-10), then press MODET and CUR® to select "7: COLLECT", then press to enter into the collection interface(Pic 5-11). Then the user can count a bundle of notes, after 2-3 mins, the data will be saved in the U drive automatically. (this 2mins is the collection time for 100pcs of notes counted for A, B, C, D directions. The more notes, the more time should be took).





Pic 5-10 Pic 5-11

#### 5.7.1 Data collection for the note with error notice

The above operation (point of 5.7) is for the data collection of all kinds of notes. But if the user only want the datas for the original note which will give error notice, the operation is showed as below:

Insert the U drive into the USB port, and count the notes with four directions, then the machine will save the data of the note which has the error notice within 2mins automatically(this 2mins is the standard collection time for 100pcs of notes counted with A, B, C, D directions. The more notes, the more time should be took). And it only save the data of the notes (in reject pocket) with error notice, and will not save the data of the notes which stay in the stacker after counting.





# 5.8 VERSION

Press reserved to enter into the version information checking interface(Pic 5-12).

8 : VERSION
Model : Mainver : V4.0 Csver : 3.0 Cis ID : 8A542A782997 P-CODE : FA0C000200523095603C01220
Version : May 23 2020 09 : 56 : 20



lo,	Value	serial 01/06	
1	100	HF53426197D	
	10	JR9072428DA	
3 4		FL47531162B	
4		FL95617343A	
5	5	MF83973360Y	
6	50	WB133995528	
		MB248823638	
8	100	LH84437855C	
9	5	IF44166717D	
B	-	E412880556	

Pic 5-12

Pic 6-1

Pic 6-2

## 6. The introduction of the operation

The user can select the counting function according to the different requirement. This machine is equipped with the memory function. When turn on the machine, it will save the previous setting (except the ADD function).

#### 6.1 Turn on/off

The user can press the power switch to turn on/off the machine.

Note: the machine will start self-check after turning on. During the self-check, if there is some problem with the sensor, then it will show the error code in the display(the details please refer to 9. Error message display/10. Fault code and resolutions).

#### 6.2 Automatic/Manual counting

Press MENU®, then to choose "LIMIT/SET" (see Pic 5-4), then press to go to the 8th selection "AUTO".

Press MODE1 and CUR + to "+1" or "-1": "0" is the manual counting, "1" is the automatic counting, "2" is also the automatic

counting, but the display will not show "A". Then press to confirm and press MODET to back to the previous interface.

Notes: in the "AUTO" counting, if the notes are very old or dirty, then it will lead to the start sensor not work.





#### 6.3 ADD function

Press ADD to turn on/off the ADD function. When the display show "ADD", it means the ADD function is on; otherwise, the ADD function is off. The ADD function can work with Batch function.

#### 6.4 Batch function

Press (BATCH) to turn on the batch function, if the user press this key again, then the user can choose the batch number among "100" "50" "20" "10", or the user can press +1/+10 to set a batch number.

Notes: the machine finishes counting in the current counting mode, on the condition that there is no banknote on the hopper and there are some banknote at the stacker, if the user count some notes, then the counting number will be reset and start accumulate again.

#### 6.5 Calibration

The machine must do the calibration after Main program upgrade. The operation steps are showed as below. CIS Calibration:

- 1. After upgrade the Main program, please restart the machine and wait for the main interface.
- 2.Press ADD and PRT at the same time will show the below interface (Pic 5-9-1).

- 3. Then press BATCH RPT BATCH in turn (Pic 5-9-2).
- 4. Open the back rear cover, put the calibration paper on the position of CIS, then close the back cover.
- 5.press continuously at least 7 times until the display shows "CIS check wait" (Pic 5-9-3), then wait for a few seconds. When the display shows "CIS check OK", then the calibration is successful (Pic 5-9-4). Otherwise will show "CIS check FAIL" (Pic 5-9-5), need recalibration.
- 6.press MENUS to save and exit the setting. Remove the calibration paper and restart the machine.





pen the coverand put in the calibration



Pic 5-9-1

Pic 5-9-2

Pic 5-9-3





Pic 5-9-4

Pic 5-9-5





#### UV/IR Calibration:

The machine must do the UV/IR calibration when counting show "IR error" "UV error" "DB error" frequently. or "test 4 error" (machine self-testing)

- 1.Press ADD and PRT at the same time will show the below interface (Pic 5-9-1).
- 2. Then press BATCH RPT BATCH in turn (Pic 5-9-2).
- 3. Open the back cover, put the calibration paper on the position of CIS, then close the back cover.
- 4.Press ADD button then the display shows "IR UV check wait" (Pic 5-9-6), wait for a few seconds. When the display shows "IR UV check OK" (Pic 5-9-7), that means calibration successful (Pic 5-9-8). Otherwise will show "IR UV check FAIL", then need recalibration.
- 5.press MENUS to save and exit the setting. Remove the calibration paper and restart the machine.







Pic 5-9-1

Pic 5-9-2

Pic 5-9-6





Pic 5-9-8

## 6.6 Report checking and printing

- 1) After counting a bundle of notes, press (RPT) to check the report(Pic 6-1).
- 2) Press RPT again to check the serial number (Pic 6-2), and press CUR 1 to check the next page, then press MENU® to back to the previous interface.
- ESET to print the current report.

#### 6.7 Banknote feeding clearance adjustment

When the banknote feeding clearance is too loose, then the machine will come up with the problem of "double note" (error code: DB), "size different" (error code: DD) and inaccurate counting number, etc. Then the user can rotate the adjusting screw to the anti-clockwise direction little by little until the counting is smooth. Please noted that do not rotate it too much in case it will break the notes.

When the banknote feeding clearance is too tight, then the machine will have unsmooth counting, and the notes will be deformed and broken. The user should rotate the adjusting screw to the clockwise direction until the problem solved.

**Notes:** the adjusting screw has been set to a good position before shipping from the factory, so the user is no need to do the adjustment when they receive the machine. Only when after a long time usage, it may need to do some adjustment.

### 6.8 Restore to the factory setting

Hold press "ERROR" key and turn on the machine, after finish machine self-test, the display will show "Flash Disk Formatting...", after several seconds, it will show "Flash Disk Format Finish" and then move to the main screen, it means the unit restored to the factory setting succeed.

Pic 5-9-7 24





# 7. Counting mode

The user can select one counting mode according to the currency and the requirement.

The user can press Moder to choose, and there are five counting modes: COUNT, FACE, ORIENT, SINGLE, MIX.

During the counting, if there is more than 50pcs of notes in the reject pocket or there is more than 220pcs of notes at the stacker, the machine will notice the user to remove the notes. when the user remove the notes from the reject pocket, the details of the suspicious notes will be clear automatically (suggestion: before removing the suspicious notes from the reject pocket, please press MENU® to back to the previous interface, and check the error message of the suspicious notes).

#### 7.1 COUNT mode

- ——Counting the quantity only.
- ——Only show the quantity(note value) in the main screen. There is no counterfeit detection active under this mode
- ——This mode can be used to count non-cash items, also can count other currencies which didn't installed.

#### 7.2 FACE mode

- ——Sorting the notes base on their face (face up or face down).
- ——Only show the total number and total value of the notes in the stacker, reject notes will not included in the result.
- ——The first note in the stacker decide the sorting, opposite with the first note face will into reject pocket.

#### 7.3 ORIENT mode

- ——Sorting the notes base on their direction (one note have 4 direction).
- ——Only show the total number and total value of the notes in the stacker, reject notes will not included in the result.
- The first note in the stacker decide the sorting, other directions which not watch the first one will into reject pocket.

#### 7.4 SINGLE mode

- ——Sorting the notes base on their denomination
- —Only show the total number and total value of the notes in the stacker, reject notes will not included in the result.
- ——The first note in the stacker decide the sorting, other denomination which not watch the first one will into reject pocket.

#### 7.5 MIX mode

- Counting mix denomination notes at the same time.
- —— Will show the total value and quantity of mixed denomination notes in the main screen.

  Suspect notes will not be included in the counting result.





# 8. Detection error message and solution

When there is some suspicious notes during the counting, the suspicious notes will be in the reject pocket.

The user should press refer to the following diagram. It is recommended to recount the note if any of the below error ouccured.

Error code	Reason	Solution	
UV	Suspicious notes detected by UV	Check /remove the suspicions note from the stacker, then press the "RESET" key to continue counting. If the error keep on, the note is genuine and in good condition, consider lower the UV limit level.	
MG	Suspicious notes detected by MG	Check /remove the suspicions note from the stacker, then press the "RESET" key to continue counting. If the error keep on, the note is genuine and in good condition, consider lower the MG limit level.	
IR	Suspicious notes detected by IR	Check /remove the suspicions note from the stacker, then press the "RESET" key to continue counting. If the error keep on, the note is genuine and in good condition, consider lower the IR limit level.	
Double	Two or more bill passed as one	Check /remove the note from the stacker, then press the "RESET" key to continue counting. If the error appear frequently, please consider adjusting the feeding clearance adjustment (refer 6.7) or lower the DB limit level	

Error code	Reason	Solution
Size Size different		Check /remove the suspicions note from the stacker, then press the "RESET" key to continue counting. If this error appear frequently, please lower the DD limit level.
Image	Didn't recognize the note	Check /remove the note from the stacker, then press the "RESET" key to continue counting. If the error keep on, the note is genuine and in good condition, please clean the CIS sensor or calibration the CIS sensor(refer6.5).
Slant	Note slope in the aisle of the machine	Check /remove the note from the stacker, then press the "RESET" key to continue counting. If you put the notes correctly in the hopper and this error keep on, , consider lower the SLOPE limit level or consider adjusting the feeding clearance adjustment (refer 6.7).
Different In the SINGLE mode any different denomination note with the first counted note		Check /remove the note from the stacker, then press the "RESET" key to continue counting.
FACE In the FACE or ORIENT mode, any different face or direction note with the first counted note		Check /remove the note from the stacker, then press the "RESET" key to continue counting.





# 9. Machine self-check fault code and solution

Fault code	Reason	Solution
TEST-1 Reject Pocket ERR	Problem with reject pocket sensor	Clean or replace the sensor
TEST-2 L_D_IR ERR	Problem with the lower left counting sensor	Clean or replace the sensor
TEST-2 R_D_IR ERR	Problem with the lower left counting sensor	Clean or replace the sensor
TEST-2 Kout_IR ERR	Problem with the top upper counting sensor	Clean or replace the sensor
TEST-3 UV ERR	Problem with the lower right counting sensor	Clean or replace the sensor
TEST-4 L_U_IR ERR	Problem with the upper left counting sensor	Clean or replace the sensor
TEST-4 R_U_IR ERR	Problem with the upper right counting sensor	Clean or replace the sensor
TEST-4 L_M_IR ERR	Problem with the middle left counting sensor	Clean or replace the sensor
TEST-4 R_M_IR ERR	Problem with the middle right counting sensor	Clean or replace the sensor
TEST-4 BIR ERR	Problem with the middle back counting sensor	Clean or replace the sensor

Fault code	Reason	Solution
TEST-5 Stacker Sensor ERR	Problem with the reset sensor or problem with the relative control circuit; if there is something covering the reset sensor, it will also have this fault code.	When remove the things from the hopper, if it still have this fault code, please replace the reset sensor or replace the main board
TEST-5 Rejection Sensor ERR	Problem with the rejection sensor or problem with the relative control circuit; if there is something covering the rejection sensor, it will also have this fault code.	When remove the things from the stacker, if it still have this fault code, please replace the rejection sensor or replace the main board.
TEST-5 Feeding Sensor ERR	The judgment on the working condition of the start sensor: cover the start sensor; meanwhile, turn on the machine, if the display shows ERR, it means the start sensor is not workingwell.	Clean the start sensor or replace the start sensor.
TEST-6 True and False ERR	Problem with the Electromagnet	Check the relative circuit, confirm connect well.





Fault code	Reason	Solution	
TEST-7 DOWN_MOTOR	Problem with the main motor or problem with the relative control circuit.	Replace the main motor or replace the main board.	
TEST-7 UP_MOTOR	Driving belt is damaged.	Replace the driving belt.	
TEST-7 MP_MOTOR ERR	Problem with the speed sensor or problem with the relative control circuit	Replace the speed sensor or replace the main board.	
MG ERR	Problem with MG sensor	Clean or replace the sensor	
Stuck notes ERR	The note jammed in the aisle of the whit	Please take outthe back aisle, and remove the note, after done press "RESET" key to continue counting.	
Reject pocket ERR	Reject pocket missing	Check or restal the reject pocket.	
Down IR ERR	Back aisle cover open	Check the back aisle cover close well.	
Up IR ERR	Top rear cover open	Check the top rear cover close well.	

# 10.Precaution for handling the machine

The user should pay attention to the following items when using this product:				
Damp and/or badly stained notes should be avoided; Check no other things(paper clip, rubber band, pieces of paper etc.) mixed in the notes;	Damp and/or badly stained note	Piece of paper Clip Rubber hand Stack of notes mixed other things		
Folded or curled notes should be straightened before counting; As for the bundle of new notes, should bend and flex before counting;	Curled note	Folded note		
The notes should be tidied up before counting, or it will lead to the some problem when the machine work;				





## 11.Maintenance

If there is some dust or dirty things covering the sensors, it may have an influence on the working performance, so please do the cleaning after the usage, for example after counting for around 30,000pcs to 50,000pcs of notes, or 1 to 2 months later if the user do not use the machine very frequently.

Warning:

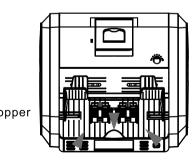
- 11.1 when do the inside cleaning, please cut off the power. In case of some damage, electric shock or injury happened.
- 11.2 when do the cleaning, please do not use the inflammable spray, because of the electronic component will be affected or damaged by the spray.
- 11.3 when do the cleaning, please do not use the neutral detergent, petrol, dilution water etc., because of these will lead to product color change, damaged and abnormal working performance.

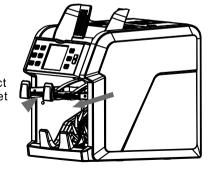
# The cleaning of each part of the machine

(Hopper, reject pocket, stacker, back drawer, top cover and CIS)

Please refer to the notice to clean the machine as follows:

- 1. Please clean the start sensor and the hopper with the brush and the cotton swab(Pic 12-1).
- 2. Please clean the sensor and the reject pocket with the brush and the cotton swab, and the reject pocket can be took out for the cleaning(Pic 12-2).
- 3. Please clean the reset sensor and the stacker with the brush and the cotton swab (Pic 12-3).
- 4. Please clean the back drawer with the brush and the cotton swab, and the back drawer can be took out for the cleaning (Pic12-4).
- 5. Please clean the top cover and CIS with the brush and the cotton swab, and the top cover can be opened for the cleaning (Pic 12-5).



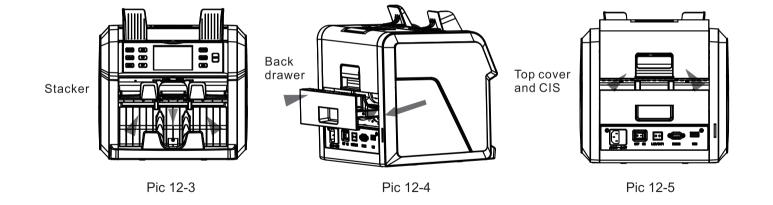


Pic 12-1

Pic 12-2



Note: please do not expose the machine to the strong light, and do not keep the machine in the environment of high temperature and humidity, because of this device has many optical sensors.



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