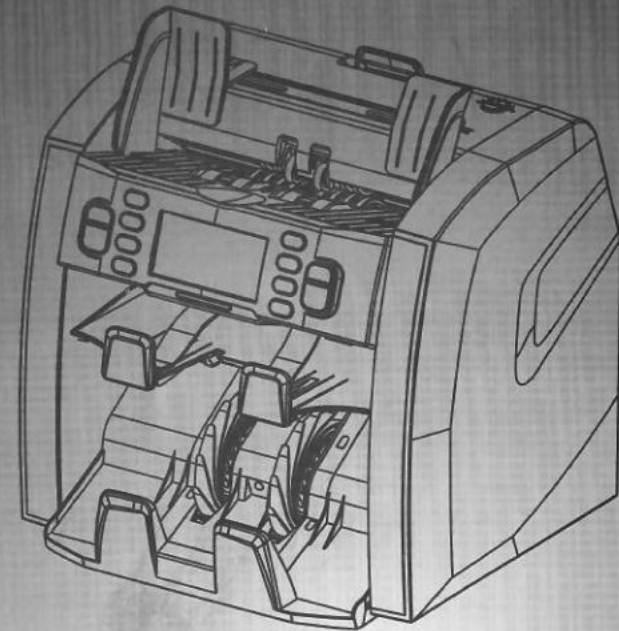




1+1 Pocket Multi-Currency Banknote Discriminator

User Manual

DP-8120 (VB)



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Preface

Thank you for choosing this currency discriminator! This machine represents the latest development in our technology.




In order to make the best use of this currency counter and its counting /sorting capabilities, please read the manual carefully before using, and familiarize yourself with the operating procedure.

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Safety Instruction

To avoid damage to the machine and/or personal injury, read the following carefully before first use!

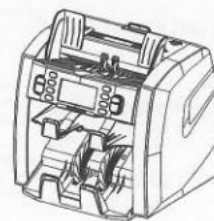
	<ul style="list-style-type: none">● Place the unit on a solid flat surface.● Before moving the unit, please disconnect the power cord, damage to power cord may result in fire and or electric shock. Don't place the unit on a shaky or vibrating surface.● Keep the unit away from volatile gases or flammable materials● Keep the unit away from heavy humidity and strong sunlight,● as it may cause machine's failure.
	<ul style="list-style-type: none">● In case of water spill, stop operating the unit immediately, switch it off, and disconnect the power cord, then contact the service center for help.● Plug the supplied power cord into a grounded outlet only.● If the unit is not in use for a long period of time, please keep it switched off and unplugged to avoid possible damage.
	<ul style="list-style-type: none">● Please be careful to avoid any foreign objects, such as coins or staples, falling into the unit, as it may cause damage to the machine.● It is strictly prohibited for anyone except authorized technician to open/service the machine. This will render remaining warranty void and may cause malfunction or injury.

Features

- ❖ Detects magnetic ink, infrared ink, UV, CIS image, length, thickness of banknotes.
- ❖ Compact size, user-friendly interface with large and clear LCD display.
- ❖ Up to 4 different currencies, banknotes can be processed in all four orientations.
- ❖ High-capacity hopper, stacker and reject pocket.
- ❖ ADD function, batch function, reporting and printing function are available.
- ❖ Intuitive user menu and maintenance menu interface for flexible operation.
- ❖ Auto-adjustable technology, easy software upgrades via SD card or USB port.
- ❖ Configurable USB interface, printer interface, external display interface.
- ❖ Full open channel design for better maintenance and jam removal.

Unpacking

Please check whether the appearance of the machine is in good condition and whether all of the accessories are available. Inside the package there shall be the following.



Banknote Discriminator



User manual



Power cable



Cleaning brush



Fuse



USB download cable
(Optional)



External LCD display
(Optional)



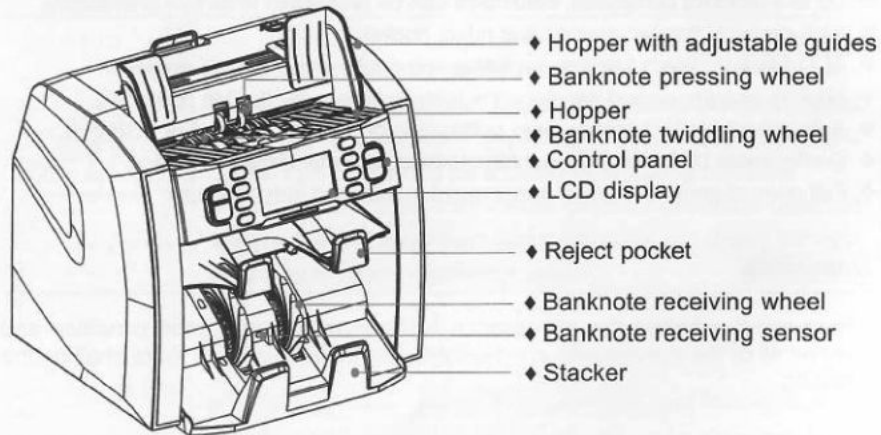
Printer cable
(Optional)



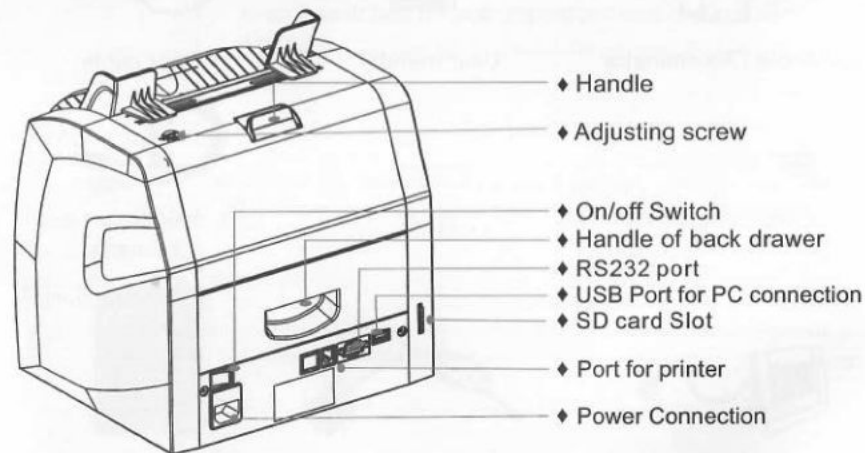
SD card
(Optional)

Exterior

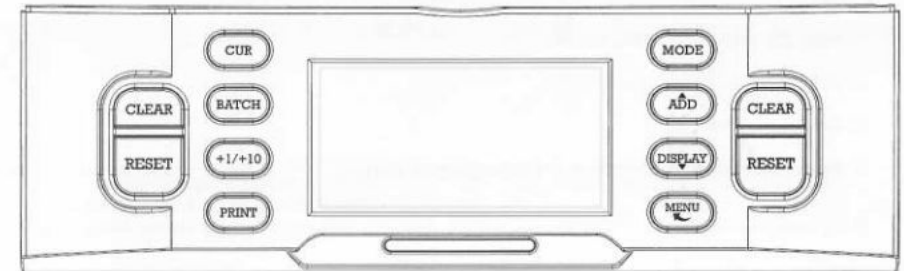
1. FrontView



2. Backview



3. Explanation about the user's panel



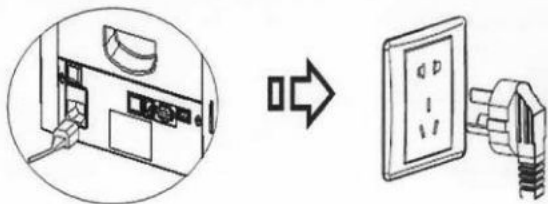
- 1] **CUR** : Currency selection.
- 2] **BATCH** : Batch function on/off and set batch number.
- 3] **+1/+10** : Increase the batch number by 1(short press) or 10(press and hold).
- 4] **PRINT** : Send count report to print.
- 5] **MODE** : Counting mode settings: MIX, SINGLE, FACE, ORIENT, COUNT.
- 6] **ADD** : Add function on/off. Also served as navigation key UP.
- 7] **DISPLAY** : View the counting result report. Also served as navigation key DOWN.
- 8] **MENU** : Enter/exit device menu and go back previous level(in MENU mode).
- 9] **CLEAR** : Clear the number of counted banknotes and turn the batch function off.
- 10] **RESET** : Start counting/ Confirm selection in menu mode.

Operation Instruction

In order to avoid counting/detecting errors, the following must be done before counting:

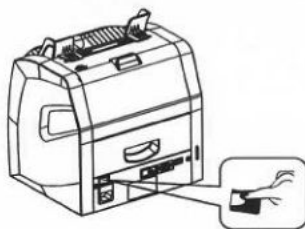
- ① Have the banknotes neatly stacked
- ② Straighten out folded notes/corners
- ③ Remove wrinkled notes
- ④ Remove any foreign object from the notes(staples, coins)

Place the machine on a solid flat surface. Plug in the cord, and turn the machine on. Make sure all connections are secure. If you have purchased an external display, connect it to the RS232 port on the back of the machine. Avoid strong electromagnetic field or direct sunlight.



⚠ Note: In order to ensure personal safety, only use grounded electric outlets.

Turn on the power switch, the machine will display the software version first, then perform a self-test.

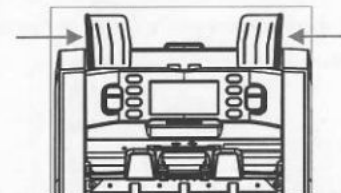


If the test is successful, the machine will enter ready state (See figure 1). If some error messages are displayed on the LCD, please refer to the Troubleshooting section of the manual.

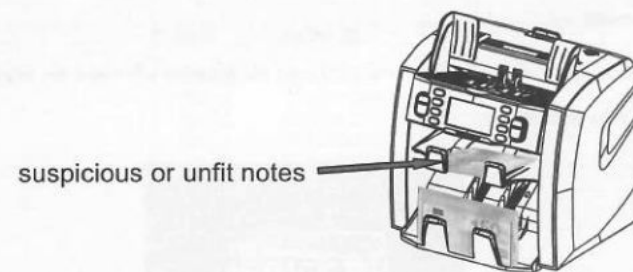
**** MIX	B:---
PCS	0
VAL	0
R:	
S:M	26-06-2015 08:33

Figure 1

Before counting, please adjust the left and right hopper guides to the sizes of the banknotes to ensure uninterrupted feeding.



Place the well-stacked banknotes on the hopper, and the machine will start counting. The suspicious or unfit banknotes will be moved to the reject pocket.



⚠ Note: When an error occurs, and causes the machine to stop automatically, please re-count the banknotes.



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Functions

1. Currency selection

When the machine is turned on, the currency code is displayed on the LCD. If you need to count/sort another currency, press "CUR" key to change the currency, the symbol of the installed currencies will be displayed in turn.

"EUR" means Euro

"USD" means US Dollar

"TRY" means Turkish Lira

"GBP" means Pound Sterling

...etc.

2. Counting/Sorting mode

Five counting/sorting modes are available- Mix mode, Single mode, Face mode, Orientation mode and Count Mode. User can press the "MODE" key on the control panel to switch the counting/sorting mode according to requirements.

A. Mix mode

In mix mode, "MIX" is displayed on the LCD, and the machine will count the mixed denomination banknotes of a given currency.



When the counting is completed, the total value and total number of banknotes are displayed on the LCD, and if "DISPLAY" button is pressed, the machine will provide a detailed report result of counting results.

e.g. Example:

Denomination #of notes Value

5	1	5
10	1	10
20	2	40
50	2	100
100	1	100
200	1	200
Total	9	955

If the machine is connected to the printer, you can print the report by pressing the "PRINT" button.

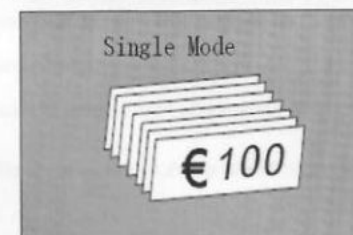
EUR 2016-07-04 14:56:07		
Deno	Pcs	Value
EUR 10	3	30
EUR 20	3	60
EUR 50	2	100
EUR 200	1	200
Total	9	390

Deno	Serial NO.
EUR 200	X05404701629
EUR 50	S72361862998
EUR 50	S72361862512
EUR 20	RB1664959982
EUR 20	RB1665015098
EUR 20	RB1664961647
EUR 10	EB4201196319
EUR 10	PA6424153676
EUR 10	PA6424153253

! Note: For serial number printout, please refer to section "2. Serial Number Recognition".

B. Single mode

In single mode, "SINGLE" is displayed on the LCD, and the machine will count banknotes of the same denomination. When the counting is completed, the total value and total number of banknotes are displayed on the LCD, If a suspicious or a different denomination banknote is encounter, it will be moved to the reject pocket.

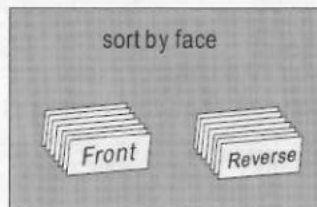


C. Face mode

In Face mode, "FACE" is displayed on the LCD, and the machine will sort the banknotes according to their front/back orientation.

The first banknote detected by the sensor becomes the reference for the stacker.

The banknote facing the other direction are then sorted into the reject pocket, including any suspicious notes.

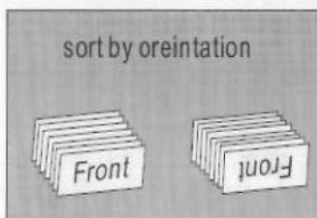


D. Orientation mode

In Orientation mode, "ORIENT" is displayed on the LCD, and the machine will sort the banknotes by transport orientation.

The first banknote detected by the sensor becomes the reference for the stacker.

The banknote facing the other orientation are then sorted into the reject pocket, including any suspicious notes.



! Note: We suggest sorting the banknotes in "Face" mode first, and then in "Orientation" mode.

E. Count mode


If you only need to count the number of banknotes, press the "MODE" button on the control panel. When "COUNT" is displayed on the LCD, the machine will count the number of banknotes without detection. When the banknote counting is completed, the total number of banknotes will be displayed.

! Note: In "Count" mode, the counterfeit detecting function is switched off.

3. Accumulative Counting

When you need accumulative counting, press the "ADD" key on the control panel, if "ADD" is displayed on the LCD, the machine will count starting from the original number displayed on the LCD. When the counting is completed, the number displayed on the LCD is the total value of the several times' counting. When the total number of banknotes reaches 9999+1, or total value reaches 999999+1, the number will be reset to 0.

EUR	MIX	ADD	B:---
PCS		9999	
VAL		999999	
R:			
S:M	26-06-2015		14:00



EUR	MIX	ADD	B:---
PCS		0	
VAL		0	
R:			
S:M	26-06-2015		14:00

! **Note:** To ensure accurate counting in ADD counting mode, in case of jam or other problem, the latest batch will not be added to the total, it can be re-counted.

4. Batch Counting

When you need a batch counting, press the "BATCH" key, when "100" is displayed on the LCD, the "Batch" function has been turned on and the current batch setting is 100.

Each time you press the "BATCH" button, "100, 50, 20, 10 and ---" will be displayed in turn.

When switch to "---", the batch function is disabled. Furthermore, you can press or hold the "+1/+10" key to increase the batch number by 1 or 10 according to the requirement of the banknotes counting.

The batch number may be set in the range of 1~200. After setting the batch number, put the banknotes on the hopper and the machine will start counting automatically. While reach the batch number, the machine will stop automatically.

User Menu

Press the "MENU" key to enter the user menu while on the main screen.

You can navigate to any category by pressing the "ADD" button or "DISPLAY" button.

User Menu	
1 Speed	H
2 Serial	OFF
3 R-P Capacity	30
4 Beep Setup	->
5 Date Time	->
6 Version	

1. Counting Speed

- Navigate to "1 Speed" item.
- Press the "BATCH" button or "+1/+10" button to select speed(3 speeds available).
- Press "RESET" button to save the change.
- Press "MENU" button to leave.

User Menu	
1 Speed	L
2 Serial	OFF
3 R-P Capacity	50
4 Beep Setup	->
5 Date Time	->
6 Version	

- "SPEED L" - low speed(800 notes/min)
- "SPEED M" -medium speed (900 notes/min)
- "SPEED H" -high speed mode(1100 notes/min).

❗ Note: Serial number identification can only work with low speed setting.

2. Serial Number Recognition

- Navigate to "2 Serial" item.
- You can activate/deactivate serial NO.recognition function by pressing the "BATCH" button or "+1/+10" button.
- Press "RESET" button to save the changes.
- Press "MENU" to leave.

User Menu	
1 Speed	H
2 Serial	ON
3 R-P Capacity	50
4 Beep Setup	->
5 Date Time	->
6 Version	

❗ Note: User can feed banknotes with any orientation, provided that the specific currency has serial number function supported.

3. Reject Pocket Capacity Settings

- Navigate to "3 R-P Capacity".
- Press the "BATCH" button or "+1/+10" button to select the capacity of reject pocket(50, 40, 30 and 20 are available).
- Press "RESET" button to save the changes.
- Press "MENU" to leave.

User Menu	
1 Speed	H
2 Serial	OFF
3 R-P Capacity	50
4 Beep Setup	->
5 Date Time	->
6 Version	

4. Sounds Setting

Navigate to "4 Beep Setup" , and confirm this selection with "RESET" button.

User Menu	
1 Speed	H
2 Serial	ON
3 R-P Capacity	50
4 Beep Setup	->
5 Date Time	->
6 Version	



Beep Setup	
1 Alarm Beep	Mute
2 Key Beep	Normal

- Turning off Alarm Settings
- Navigate to "1 Alarm Beep".
 - Press the "BATCH" button or "+1/+10" button to toggle between Alarm Beep Normal and Mute.
 - Press "RESET" button to save the changes.
 - Press "MENU" to leave.

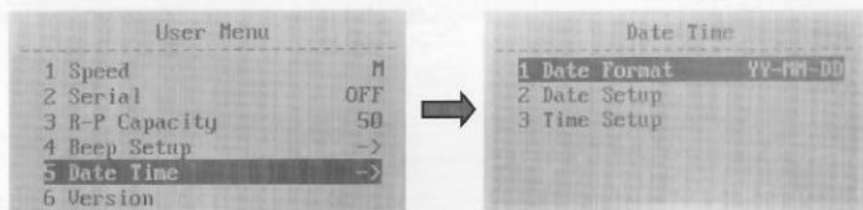
! Note: When Alarm Beep is turned on, the machine makes beep sound when there are rejected notes after the counting.

- Turning on/off Key Beep Settings

- a) Navigate to "2 Key Beep".
- b) Press the "BATCH" button or "+1/+10" button to toggle between Key Beep Normal and Mute.
- c) Press "RESET" button to save the changes.
- d) Press "MENU" to leave.

5. Setting Up Date and Time

Navigate to "5 Date Time", press "RESET" button to confirm.



- Changing Date Format Setting

- a) Highlight the "1 Date Format" item.
- b) Press the "BATCH" button or "+1/+10" button to toggle between Date Format.
- c) Press "RESET" to confirm.
- d) Press "MENU" to leave.

- Changing Date and Time Settings

- a) Highlight the "2 Date Setup" or "3 Time Setup" items.
- b) Press "RESET" to confirm.
- c) Use the "ADD" button or "DISPLAY" button to highlight the desired value to modify.
- d) Press the "BATCH" button or "+1/+10" button to change the value.
- e) Press "RESET" to confirm.
- f) Press "MENU" to leave.

Troubleshooting

1. Remove the jammed banknotes

When the LCD displays "JAM! CODE=6, REMOVE ALL NOTES THEN PRESS RESET" error message during counting, please do the following.



(A) Open the top cover to remove the jammed banknotes.

(B) Pull the handle of back drawer to open the back drawer, and remove the jammed banknotes.

2. How to adjust the feeding gap

The adjusting screw of the feeding gap on the top cover has already been set at the factory. You may need to adjust the feeding gap if the following problems occur during counting/sorting.

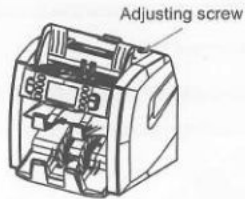
- Frequent jams, or banknote pass the feeder with difficulty- turn the adjusting screw clockwise to make the gap larger.

- Frequent "double notes" or "chained notes" error message- turn the adjusting screw counter-clockwise to make the clearance smaller.



Make the gap smaller

Make the gap larger



! Note: The adjusting screw is very sensitive, make only one notch at a time.

3. Self-test error message display and solutions

The machine will perform a self-test when turned on. Most of the following error messages are caused by a sensor blocked by banknotes or dusts. Remove the stuck banknote, or use a brush or a piece of soft cloth to clean the dusts off the sensor, and then restart the machine.

Error message	Solutions
Feeding Fault	Remove the banknote from the feeder and/or remove dust from feeding sensor.
Receiving Fault	Remove the banknote from the stacker and/or remove dust from receiving sensor.
Rejector Fault	Remove the banknote from the reject pocket and/or remove dust from reject sensor.
UV Fault	1.Adjust the top cover to correct position so as to avoid strong light source. 2.Remove the banknote from the machine and/or remove dust from UV sensor.
FL Fault	1.Adjust the top cover to correct position so as to avoid strong light source. 2.Remove the banknote from the machine and/or remove dust from FL sensor.
Left#1 Counting Fault	Remove the banknote from the machine and/or remove dust from counting sensor.
Right#1 Counting Fault	
Left#2 Counting Fault	
Right#2 Counting Fault	
Left CIS IR Fault	Remove the banknote from the machine and/or remove dust from CIS IR sensor.
Right CIS IR Fault	
Rotate#1 Speed Fault	Remove dust from rotate speed sensor.
Rotate#2 Speed Fault	
CIS#1 Fault	Remove the banknote from the machine and/or remove dust from CIS sensor.
CIS#2 Fault	

CIS#3 Fault	
AD Fault	Turn off the machine and restart it.
Brake Fault	Please contact your dealer to replace component.
Diverter #1 Fault	Please contact your dealer to adjust the commutator.
Diverter #2 Fault	
Diverter #3 Fault	
Diverter #4 Fault	
Left BackIR Fault	Remove the banknote from the back drawer and/or remove dust from Left BackIR sensor.
Right BackIR Fault	Remove the banknote from the back drawer and/or remove dust from Right BackIR sensor.
Please Clean Left Counting Sensor!	Remove the banknote from the machine and/or remove dust from IR sensor.
Please Clean Right Counting Sensor!	Remove the banknote from the machine and/or remove dust from IR sensor.
MG# 1 Fault	Re-plug the left magnetic board
MG#2 Fault	
MG#3 Fault	
MG#4 Fault	Re-plug the MRS magnetic board
MG#5 Fault	
MG#6 Fault	Re-plug the right magnetic board
MG#7 Fault	
MG#8 Fault	
MID-MG Fault	Re-plug the middle magnetic board
MID-MT Fault	

4. Detective error message display and solutions

If one of the following error messages is displayed on the LCD during the course of counting/sorting, please handle them as per the following solutions after the machine is stopped.

Error message	Solutions
UV-Error FL-Error	Remove the banknotes from the machine and /or remove dust from UV or FL sensor
MG-Error MG1-Error MG2-Error MG3-Error	Remove the banknotes from the machine and /or remove dust from magnetic sensor
IR-Error	Please contact your dealer/technician to adjust the counting IR sensor
Composed-Error	Remove the banknotes.
Slant	1. Titled banknotes. 2. The banknotes are not being fed straight through the machine. Ensure the banknote are placed neatly and are inserted centered on the hopper.
Slant#1	3. Use the hopper guides to center the banknote when counting a large stack of banknotes.
Double	1. Some banknotes are attached to each other or overlapping.
Chained#1	2. Place the banknotes from the stacker back to the hopper and re-count.
Chained#2	3. If frequently displayed, turn the adjusting screw anti-clockwise to make
Chained#3	the gap smaller.
Count	Remove the banknotes from stacker and reject pocket, and re-count
Half	Remove the half banknote.
Width	
Length	Please contact your dealer to do the calibration.
Image#1 Image#2 Image#3	Please contact your dealer to do the calibration.
Old Ver TM SN-Error Face Diff Orient Diff Ver Diff Deno Diff	Remove the banknotes and re-count.
TIME 2	Place the banknotes from the stacker back to the hopper and re-count.
Stacker Full	Remove the banknotes from the stacker.

Rejector Full	Remove the banknotes from the reject pocket.
Bat Full	Remove the banknotes from the stacker.
Cover Open!	Close the top cover.
Back Drawer Open!	Close the back drawer.
Jam	Some foreign substance falls inside the machine or notes are blocked, open the back cover to remove them.
Mainloop Broken	Turn off the machine and restart it.

5. Sensitivity Parameters

You may encounter the following problems during counting/sorting:

- Machine doesn't sort the notes properly;
- Machine frequently recognizes good notes as unfit notes;

Please contact your technician/dealer to have the machine's sensitivity parameters adjusted.

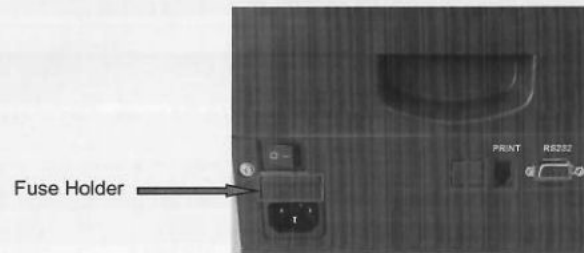
In case of technical problem that can't be solved by operator, please contact your supplier.

Key Points

- If the room temperature is lower than 20°C, wait 3 minutes after turning the machine on before counting.
- The machine should be operated in a room with good ventilation, and kept away from strong sunlight and/or magnetic field.
- The machine must be plugged into grounded electric outlets only.
- The voltage must be in the range of 100~240V AC to avoid malfunction/breakage.
- An external rollers and wheels must not be oiled or greased to avoid malfunction.
- Dusts on CIS image detecting module, IR sensors, and magnetic sensor must be thoroughly cleaned at least once a week. You may remove dust build-up on the exposed parts of the machine with the brush provided.

⚠ Note: Do not use any chemicals to clean this machine.

How to replace the fuse



Note: To protect against malfunction, replace only with same type and resistance fuse.

Specifications

Counterfeit detection:	IR, MG, CIS IMAGE, MT, UV
Counting speed:	800/1000/1200 notes/min
Hopper Capacity:	500 notes
Stacker Capacity:	200 notes
Reject Pocket Capacity	Max, 50 notes
Power supply:	100~240V AC, 50/60Hz
Power consumption:	≤50W
Temperature:	0°C~40°C
Humidity:	40~90%
Interface:	RS232, RJ-11, USB, SD Card
Dimensions:	251mm(L)×271mm(W)×264mm(H)
Weight:	8.5kg

- ✦ If the machine has some faults that you can't solve, please contact the Technical Support Dept of our company or our agent for services.
- ✦ Products subject to change without further notice.