

Owner s Manual



**Please forgive us for any mistakes in printing
We will not notice for any modification of the design and specifications**

Please read it carefully before operating

530

1、FEATURES

1.1 FUNCTIONS

1. Automatic counting
2. Preset counting
3. Add counting
4. Half notes & broken notes checking
5. Chain notes checking
6. Automatic self checking
7. Automatic zero cleaning
8. Counterfeit Alarm(530A/530B)
9. UV detecting(530A/530B)
10. MG detecting(530B)

1.2 Specifications

Dimensions : 272 × 253 × 173mm	Ambient Temperature: 0℃~40℃
Weight : 5.5kg	Ambient Humidity: 60%h~90%h
Counting speed : >1000pcs/minute	Counting Range: 1~999
Power consumption: working ≤90W	Preset Range : 5~999
Sleeping <3W	Banknote Size : Long 110~190mm
Power source: 220V ± 10%、50Hz	Wide 50~85mm
110V ± 10%、60Hz	Thick 0.075~0.15mm
Noise: <60dB	

Contents

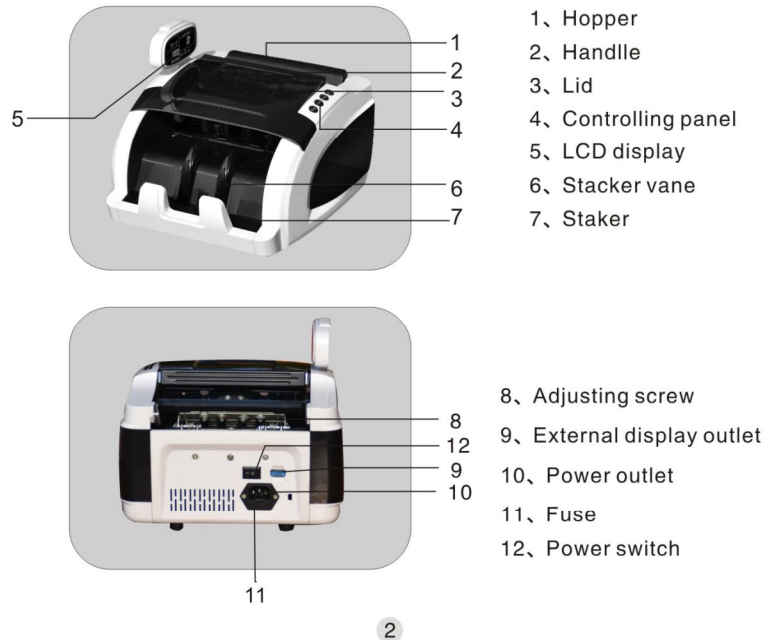
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Description & Operation

2、Description & Operation

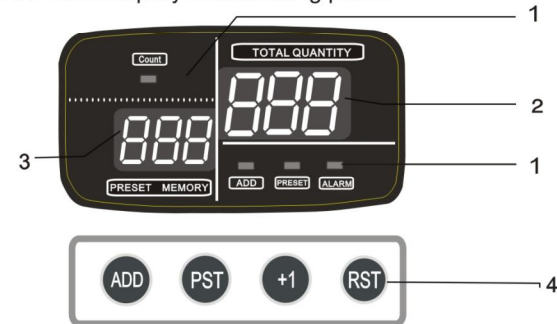
2.1 Structure of the machine



530

Description & Operation

2.2.1 530 Display /Controlling panel



- 1、batch/add display
- 2、count display
- 3、Working mode indicator
- 4、Controlling panel

2.2.1 Controlling panel

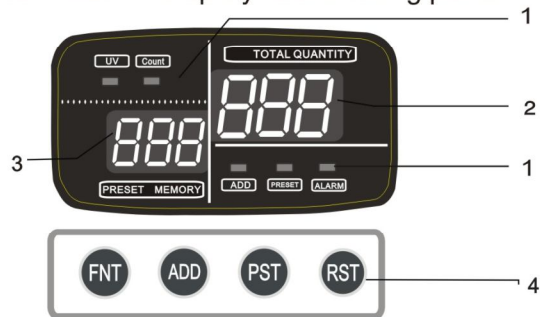
- [ADD]: to count the bills in adding
- [PST]:
 - 1) Please press "PST" button, the "PST" indicator turns on, the machine is entering into the preset counting mode
 - 2) Please press "ADD" button to adjust the number 100,50,20,10,5,1,100. Please press "+1" button to adjust the number 1,2,3....9
- [RST] to clear zero and to restart

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530A

Description & Operation

2.3.1 530A Display /Controlling panel



- 1、 batch/add display
- 2、 count display
- 3、 Working mode indicator
- 4、 Controlling panel

2.3.2 Controlling panel

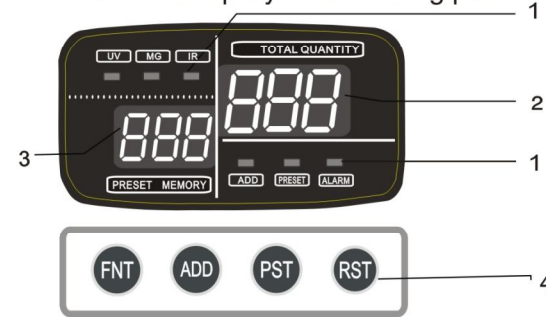
- [FNT]: Out of the state of "Preset",this button can shift among 2 states:
UV+COUNT,COUNT
- [ADD]: Out of the state of "Preset",to count the bills in adding
- [PST]:
 - 1)Please press "PST"button,the"PST" indicator turns on, the machine is entering into the preset counting mode
 - 2) Please press "ADD" button to adjust the number 100,50,20,10,5,1,100. Please press "FNT" button to adjust the number 1,2,3....9
- [RST]to clear zero and to restart

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530B

Description & Operation

2.4.1 530B Display /Controlling panel



- 1、 batch/add display
- 2、 count display
- 3、 Working mode indicator
- 4、 Controlling panel

2.3.2 Controlling panel

- [FNT]: Out of the state of "Preset",this button can shift among 3 states:
MG+UV+IR+COUNT,UV+COUNT,COUNT
- [ADD]: Out of the state of "Preset",to count the bills in adding
- [PST]:
 - 1)Please press "PST"button,the"PST" indicator turns on, the machine is entering into the preset counting mode
 - 2) Please press "ADD" button to adjust the number 100,50,20,10,5,1,100. Please press "FNT" button to adjust the number 1,2,3....9
- [RST]to clear zero and to restart

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2.6 External display

The external display show the same number as in the controlling panel LCD. The external display is showed to the bank customer.



3、Operation Instruction

3.1 The right way to loading the bills

Please load the bills in the machine the same as the following steps.

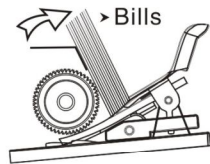


图 3.1.1

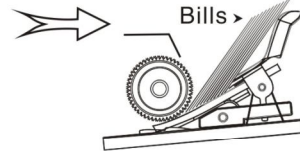
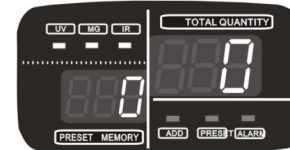


图 3.1.2

3.2 Working modes description

■Photo 3.2.1



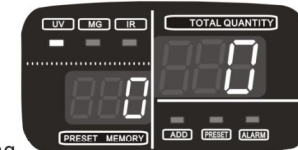
3.2.1 Mode of counting and detecting bills by MG+UV+IR

In the machine of 530B, Press "FNT" button till the "MG" "UV" "IR" indicator turns on, the machine is into "MG" "UV" "IR" detecting mode, it check fake bills by "MG" "UV" "IR" while counting (Photo 3.2.1)

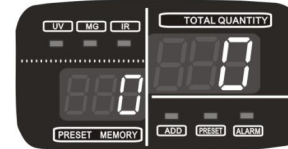
3.2.2 Mode of counting and detecting any bills by UV

In the machine of 530A and 530B, Press "FNT" button till the "UV" indicator turns on, the machine is into UV detecting mode, it check fake bills by UV while counting (Photo 3.2.2)

■Photo 3.2.2



■Photo 3.2.3



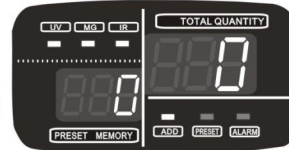
3.2.3 Mode of counting any bills without detecting

when "COUNT"indicator turns on or both "MG" "UV"and "IR" indicator turn off,the machine is in counting mode, it counts any bills automatically without detecting (Photo3.2.3)

3.2.4 Mode of adding count

In all series machines, press ADD button, ADD indicator lights on, the machine is into add counting mode, it adds up the last counting number with the next counting number.
(photo 3.2.4)

■ Photo 3.2.4



■ Photo 3.2.5



3.2.5 The Mode of Checking the fake and unnormal bills

The machine will stop and beep, and the alarm indicator lights will turn on under following situations;

1. when counting the broken or half bills
 2. when checking the suspected fake bills
- (Photo 3.2.5)

3.2.6 Batch Counting Mode

In all series machines, press "PST" button PRESET indicator lights on, then the machine is into batch counting mode, the machine will stop counting when the counting number is up to the batch number.

- 1) Please press "ADD" button to adjust the number 100, 50, 20, 10, 5, 1, 100.
- 2) Please press "FNT" button to adjust the number 1, 2, 3, ..., 9 (530A/520B)
Please press "+1" button to adjust the number 1, 2, 3, ..., 9 (530)
(photo 3.2.6)

■ Photo 3.2.6



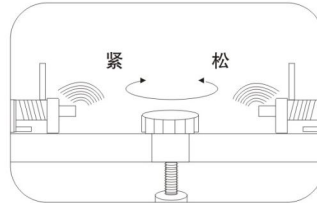
3.3 Error –Message Display

Code No.	Malfunction causes	Solutions
E01	The left counting sensor is broken or dirty	To change a new one or clean it
E02	The right counting sensor is broken or dirty	To change a new one or clean it
E03	The code disc is dirty or loosen	To clean it or tight it
E04	The hopper sensor is broken or dirty	To change a new one or clean it
E05	The stacker sensor is broken or dirty	To change a new one or clean it
E10	Ambient light is too high	To lower the ambient light
	UV sensitivity light is too high	To lower the UV light
E11	The plastic button is broken	To change a new one

Code No.	Alarms meaning	Solutions
EE1	The fake bill reflecting fluorescence is being checked out by UV	At first , to take out the first bill (fake bill) in the stacker then to press [reset] to continue counting and detecting
EE2	The fake bill without magnet is being checked out by MG	At first , to take out the first bill (fake bill) in the stacker then to press [reset] to continue counting and detecting
EE4	The broken bill or half bill is being checked out	At first , to take out the half or half bill in the stacker, then to press [reset] to continue counting & detecting
	The left (right) counting sensor is dirty or broken	To change a new counting sensor
EE6	The fake bill with different located magnet is being checked out by MG	At first , to take out the first bill (fake bill) in the stacker then to press [reset] to continue counting and detecting
EE8	The bill wide size is not within the range of 110 ~ 180mm	At first , to take out the first bill (fake bill) in the stacker and to press [reset] to continue counting and detecting
EEH	The fake is being checked out by IR	At first , to take out the first bill (fake bill) in the stacker and to press [reset] to continue counting and detecting
EE9	Two bills are counted as one resulting inaccurate counting	To fasten the adjustable screw clockwise

3.4 the way to adjust the up / down screw

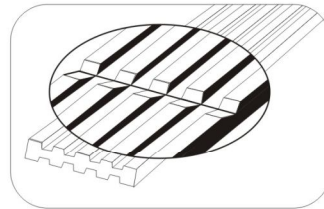
Due to long transportation and long use, the screw will be loose. When the counting is not accurate, it is necessary to turn the up/down screw clockwise to increase the friction



Adjust the up/down screw

3.5 The way to change the wear and tear parts

When the rubber tongue is worn out, please flip it and use the other side.



3.6 Troubleshooting Operational Problems

Note: when counting and detecting is not accurate, please check the machine as following:

No power	The power line cord is connected well? 	The fuse is worn out? 	The power switch is on?
The power is on, but no working	The hopper sensor is dirty, please clean by brush. 	Connect the Hopper sensor line well to the main board! 	The belt is too loose or too tight, please make the belt rightly.
Wrong counting	Turn the screw clock wise to increase the friction 	Maybe Counting sensor is dirty, please clean it 	Maybe the rubber tongue is worn out, please change to the other side or a new one
Wrong detecting	Adjust the MG sensor 	Maybe the MG is dirty, please clean it 	Maybe UV sensor is broken or dirty, please clean it or change a new one

Cleaning of the machine

Warning: Before doing any cleaning, turn the power switch off and disconnect the power cord from the machine

1. Cleaning the Optical Sensors

It is very important to clean all the sensors in the machine with a soft brush to avoid any paper particles or dust from sticking to the light-transmitter or the light-receiver sensors.

This should be done every day. If necessary, the glass surfaces of the detectors may also be wiped with a soft cloth soaked with alcohol.

2. Cleaning the Inside of the machine periodically

It is necessary to clean the inside of the machine once a month. Unplug the machine and lift the top cover to gain access to the interior.

3. Additional Recommendations

Avoid operating the machine in a dusty or dirty room. To guard the machine from the elements. Always keep it protected with the supplied plastic cover (when not in use)

CAUTION: DO NOT CHANGE THE POSITION OF THE DETECTORS AND/OR OPTICAL SENSORS

Maintenance Notice

1. The machine must be safely connected with the power source.
2. The machine must be kept in dry and ventilated place to avoid strong sunlight.
3. The machine must be kept far away from the strong magnetic field and the interference of Hertzian waves
4. The effective power must be in the scope of $220V \pm 10\%$ or $110V \pm 10\%$, otherwise it will affect the normal work.
5. The fuse rating is 2A/250V, it can not be increased or reduced.
6. 80% of all the operational problems may be caused by the dust and dirt inside the machine, please keep the machine clean all time.

Packing list

- | | |
|-----------------------------------|------|
| 1. Counting and detecting machine | 1pc |
| 2. Use manual | 1pc |
| 3. Power cord line | 1pc |
| 4. External display | 1pc |
| 5. Brush | 1pc |
| 6. Spare parts | 1set |