1. Specifications

Dimensions：242mm×276mm×245mm

Weight : 6.8kg

Noise：＜60dB

Power consumption: Working ≤ 90W

Sleeping < 3W

Counting speed : 4 speed(1900/1600/1200/800pcs/min)
or one speed(>1000pcs/minute)

Power source：220V±10%、50Hz
110V±10%、60Hz

Ambient Temperature: 0℃~40℃

Ambient Humidity: 60%h~90%h

Counting Range: 1~9999

Preset Range : 1~100

Banknote Size : Long 110~180mm
Wide 50~85mm
Thick 0.075~0.15mm

Attention:The working voltage should follow the instruction label on back of the machine

2.Packing List

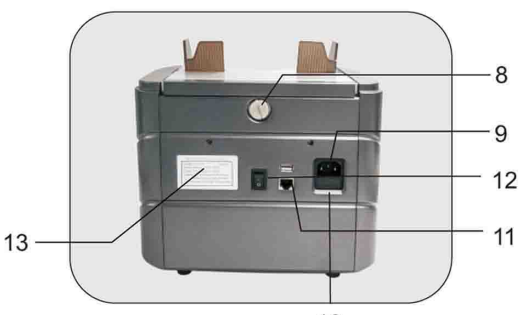
1. Counting and detecting machine	1pc
2. User manual	1pc
3. Power cord line	1pc
4. External display(optional)	1pc
5. Brush	1pc
6. Spare parts	1set

3 Description & Operation

3.1 Structure of the machine



1、Hopper
2、 Handlle
3、Lid
4、Controlling panel
5、Display
6、Stacker vane
7、Stacker



8、Adjusting screw
9、Power outlet
10、Fuse
11、External display outlet
12、Power switch
13、Label

3.2 Control Panel



1.One speed

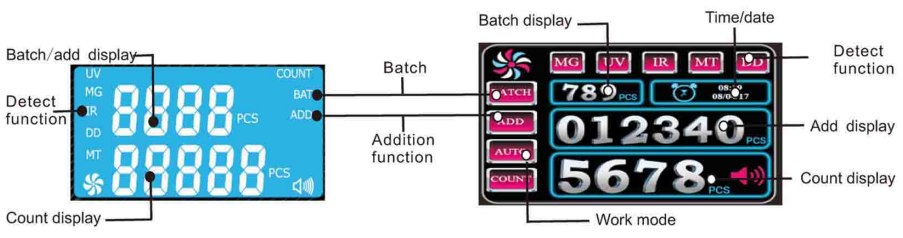


2.Four speed

(The control panel is for reference, specific please refer to the actual product.)

1).[RESET] Clear zero and to restart
2).[COUNT] Count without detecting.
3).[CF] Convert function
4).[UV] Check the bills by UV while counting
5).[MG] Check the bills by MG while counting
6).[IR] Check the bills by IR while counting
7).[MT] Check the bills by MT while counting
8).[DD] Check the bills by DD while counting
9).[AUTO] Switch the mode between auto/manual
10).[ADD] Count the bills in adding
11). [BAT / C] Count the bills in batch
12).[SPEED] Speed selection key

3.3 Display



1.LCD display

2.TFT display

(The displays is for reference, specific please refer to the actual product.)

1).[Count display] Show the counting number when counting
2).[Batch display] Show the batch number.
3).[Add display] Show the Addition number
4).[Detection function] Detection function active/inactive
5).[Batch] Setting batch number
6).[Addition fuction] Addition function active/inactive
7).[Work mode] Auto start/Manual start
8).[Time/Date] Current(setting)date and time

3.4 Function & Operation

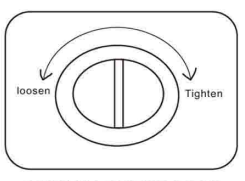
1) RESET
By pressing RESET button,machine will back to default mode or start counting.
2) CF(Convert function)
By pressing CF,user can turn on the counterfeit detection function.(UV,MG,IR, MT,DD function can be active or inactive) .eg.Press CF once,and press UV. The machine is under UV detection, it will be alarm when any suspicious note without proper UV feature is detected .The detectiing function is optional.
3) M/A
By pressing M/A to switch between auto or manual start.
4) ADD
By pressing ADD,the machine is into addition counting mode,it adds up the last counting number with the next counting number.
5) BAT/BATCH
By pressing BATCH/C,BAT/BATCH indicator lights up,then the machine is into batch counting mode.Batch number by pressing 0/1/2/3/4/5/6/7/8/9
6) COUNT
By pressing COUNT key.The machine will count without counterfeit detecting.
7) SPEED(Selectable function)
This key allows user select speed from 800/1200/1600/1900pcs/min

4.1 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
E07	Ambient maganetic field is too strong	To lower the ambient magnetic field
	MG is not workable	To change a new one
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 or loose	To change a new one or tight the connector
BF	Wheels running without feeding bills	Press reset and feed bills again

4.2 The way to adjust hopper

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



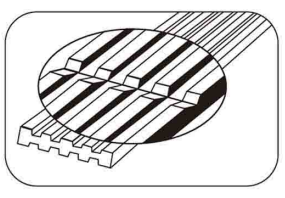
Adjust the up/down screw

4.3 Alarm-Message Display

CODE NO.	PROBLEM	SOLUTIONS
EE 1	The suspicious currency is being detected by UV	Take out the first currency(suspicious currency)in the stacker,then press(reset)to continue
EE 2	The suspicious currency is being detected by MG	Take out the first currency(suspicious currency)in the stacker,then press(reset)to continue
EE 3	The suspicious currency is being detected by IR	Take out the first currency(suspicious currency)in the stacker,then press(reset)to continue
EE 4	The half note is being detected	Take out the first currency(suspicious currency)in the stacker,then press(reset)to continue
	The left(right) counting sensor is dirty or brocken	To clean it or change a new one
EE 5	Two currency are counted as one/inaccurate counting	To tight the adjustable screw clockwise
EE 6	The suspicious currency is being detected by MG	Take out the first currency(suspicious currency)in the stacker,then press(reset)to continue
EE 7	The slanting note is being detected	Take out the first currency(suspicious currency)in the stacker,then press(reset)to continue
EE 8	The length of currency is out of 110-180mm	Take out the first currency(suspicious currency)in the stacker,then press(reset)to continue
EE 9	the width of currency is out of 50-85mm	Take out the first currency(suspicious currency)in the stacker,then press(reset)to continue
EE A	Chain currency is being detected	Take out the two currencies(suspicious currency)in the stacker,then press(reset)to continue

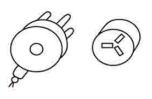
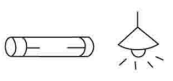
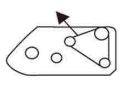
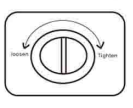
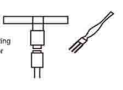
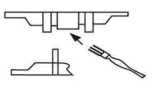
4.4 The Way To Change The Wear And Tear Parts

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



4.5 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 

Warning

Warning:Before doing any cleaning, turn the power switch off and disconnect the power cord to 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)

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±10% or 110V±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.

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