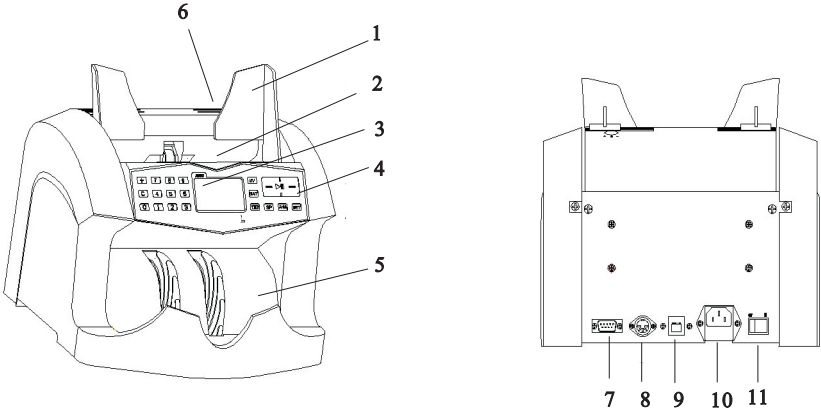


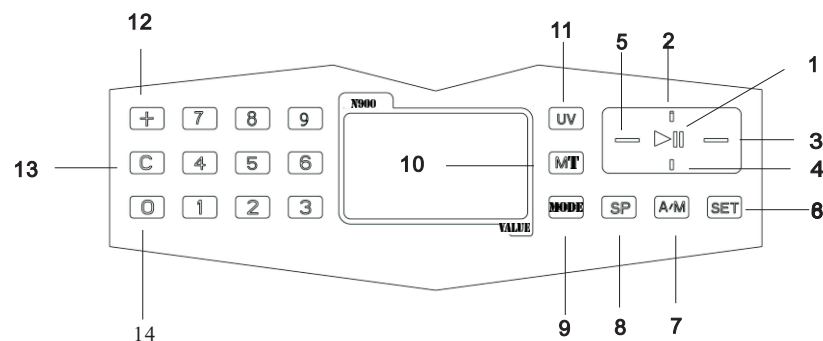
Content






Overview of the machine	1
Control panel	2
Display	3
Setting up	4
Factory settings	5
List of accessories	6
Switch on	7
Speed	8
Count mode	9
Batch mode	12
Size detection	14
Counterfeit detection (UV)	16
Counterfeit detection (MT)	18
Density detection	20
Colour and other detection	21
Other settings	22
Routine maintenance	24
Specification	25

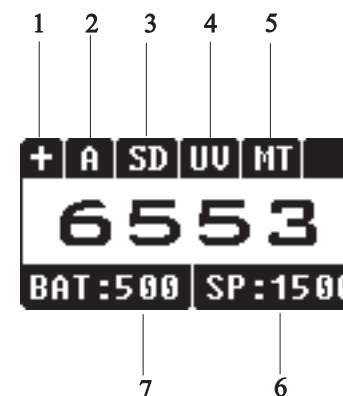
Overview of the machine



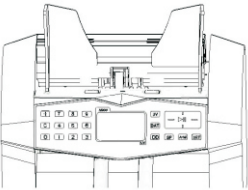
- 1. Note Guide
- 2. Hopper
- 3. LCD Display
- 4. Control Panel
- 5. Stacker
- 6. Feedgap Adjusted Screw
- 7. RS232 Port
- 8. Customer Display Port
- 9. RJ 45 Port optional
- 10. Power Socket
- 11. Power Switch



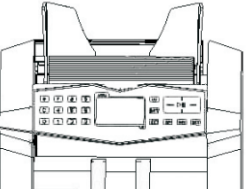
- | | | |
|-----|---|---|
| 1. |  | Start /Reset |
| 2. |  | |
| 3. |  | |
| 4. |  | |
| 5. |  | |
| 6. | SET | Press to enter into setting interface |
| 7. | A/M | Automatic ● Manual operate |
| 8. | SP | Speed selecting 800/1000/1200/1500
{1800 is optional } |
| 9. | MODE | Mode selecting: free/single deno /mix deno |
| 10. | MT | MT detection switch |
| 11. | UV | UV detection switch |
| 12. | + | Add switch |
| 13. | C | Clear Batch Number or total number |
| 14. | Number key | 10 Keys for Batch |



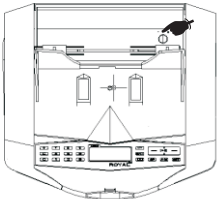
1	+	Add on/off
2	A/M	Automatic/manual operate
3	SD/MD/FR	Single Denomination/Mix Denomination /Free Counting
4	UV	UV detection switch
6	MT	Metal thread switch
7	BAT	Batch number
8	SP	Speed 800/1000/1200/1500/1800 optional



Notes must be positioned centrally.
Adjust the notes guide to the length of the notes to be counted allowing adequate clearance for notes to move freely.



Notes should be placed in the hopper flat and neatly.



Depending on the thickness and quality of the notes, please adjust the feedgap by the screw.

Basic Settings

ADD: OFF
Mode: FR
UV: OFF
MT: OFF
SP: 1000
Batch: 100
A/M: A
Key beep: Y
Back ground light: 50
Back ground contrast:32

FR mode:

SD/MD mode:

----CF of FR----

----CF of EURO----

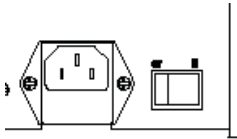
DD:4 DE:4
UV:4 MT:4
HF:OFF

DD: OFF DE:4
UV: 4 MT:4
CL: ON

List of accessories

No.	Description	Quantity	Remark
1.	Brush	1	
2.	Screw Driver	1	Line&cross
3.	Power Cable	1	
4.	User Guider	1	
5.	Communication Cable	1	Optional
6.	Customer Display	1	Optional

Switch on



Plug the power cable into the socket and switch on the machine.
The machine will power on and complete a self test routine.



When you first time turn on the machine , the Autostart function will be activated.

When you next time turn on the machine , it will keep all of your settings last time.

Speed



You may want to reduce the speed when counting very poor quality notes.

Select the throughput speed by pressing the SP key.

Press this key repeatedly to step through the speeds 800, 1000, 1200, 1500 pcs/min.

Note: the speed 1800 pcs/min is optional required when ordered.

Or

1



Press SET key to enter into the setting interface.

2

1:CF 2:TIME
3:SPEED 4:MORE
5:INFO 6:CHECK

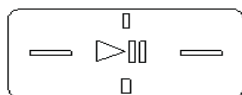
Choose SPEED by pressing →/←
Press SET key to enter into the next interface.
Or press 3 to the next interface.

3

1 : 800 2 : 1000
3 : 1200 4 : 1500

Choose the speed by pressing number of 1-4 or ↑/↓.

4



Press Start/Reset key to save the parameter and exit.

Count mode



There are 3 counting modes, **MD**, **SD**, **FR**.

MD: multi denomination mix counting and value amount with detection

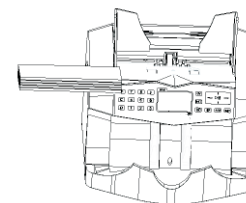


SD: Single denomination of Euro banknotes counting with detection

FR: Just counting notes number with detection optional

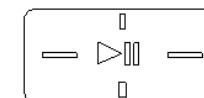


Select the 3 modes by pressing mode key



Place the notes onto the feed hopper.

The machine will start automatically, if Auto is selected.



Or, you can choose to start it manually by pressing the Start/Reset key if Manual is selected.

If the quantity of notes to be counted on the hopper is more than those on the stacker limit, remove the notes from the stacker to continue counting. The machine will restart automatically if Auto is selected.



To accumulate the counted number of every bundle or not, switch by pressing + key.





MD counting mode:
It can mix count all denominations together.
After counting, the total number of all denominations and each denomination will be shown on the display. Meanwhile, the total value will be shown.

5:	10:
20:	50:
100:	200:
500:	
Total:	



SD counting mode:
It can count same denomination to show the total number and total value.
If the different banknote are found, it will stop.

5:	10:
20:	50:
100:	200:
500:	
Total:	



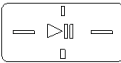
FR counting mode:
It can count any notes without reading denomination. And the detections of UV, MT, DD are optional.



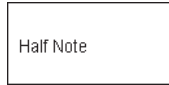
If the + is not shown on the display, the counted number of each bundle will not be added.



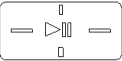
To clear the running total, in case of “+”, press C key. in case of no “+”, keep empty on hopper and stacker, press Start/reset key.



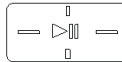
The maximum number of notes to be counted is 9999. When this number is reached, the machine will stop. Please remove the notes from the stacker and press Start/Reset key to clear the running number.



If the machine stops with the “**Half note**” or “**Width Different**” message displayed, take out the checked note and press Start/Reset key to go on counting. The checked note will not be counted into the result.



If the “**Chain notes**” or “**Double notes**” message is displayed, all of the notes on stacker must be moved to the hopper and press Start/Reset key to count again.



Batch mode



Set the batch number by pressing the number keypad from 0 to 999.



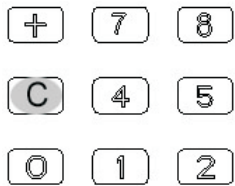
The machine will stop when the batch number has been reached.



If there are not enough notes in the hopper to complete the batch, the machine will stop while beeping. Without removing the notes in the stacker, add more notes to the hopper and the machine will continue counting to the batch number.

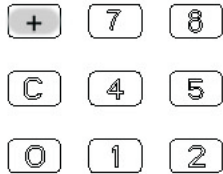
Batch mode

Clear



To clear the batch number, press C or 0 key in case of no “+”, press 0 key in case of “+”。

Totals



To show the total number of notes counted in complete batches, press “+” in advance.

To clear the running total, press C key in case of “+” press Start/Reset key in case of no “+”。

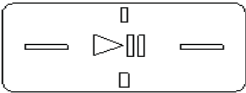
Size detection

This feature will recognize notes with a different width within a pack.
The first note of each pack is defined as the reference width.

DD means depth detection.



During the operation, the message “Width Different” will be shown on the display when a different width of note has been identified.



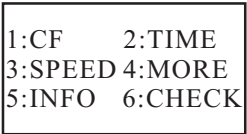
Press Start/Reset key to continue counting, the checked note will not be counted into the result.

1.



To adjust the parameter of DD, please press SET key to enter into the setting interface.

2.



Select CF by pressing → ←, then press SET again to the next interface.
Or press 1 to the next interface.

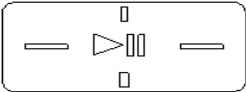
Size detection

3.



Select DD by ← or →, and press ↑↓ or the number of 0-8 to adjust DD parameter from 2-8. If you choose 0, it means depth detection is off.
Remark: if MD mode, DD must be 0.

4.



Then press Start/Reset key to save the parameter and exit.

Counterfeit detection (UV)

This feature will detect the suspect notes by ultra violet.



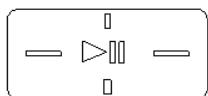
Press UV key to enable this function . Only in FR mode.
In SD and MD mode, UV is always on.



UV will be shown on the display, which means UV detection is on. (if the parameter of UV is not off.)



If this message is displayed, the suspected note has been identified.



Take the suspected note and press Start/Reset key to continue counting, the suspected note will not be counted into the result.

1.



To adjust the UV sensitivity, press SET key to enter into the setting interface.

Counterfeit detection(UV)

1

1:CF 2:TIME
3:SPEED 4:MORE
5:INFO 6:CHECK

Select CF, press SET key to enter into the next interface.

2.

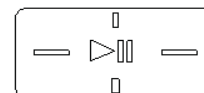
---CF of EURO---
DD: OFF DE: 4
UV: 4 MT: 4
CL: ON

Choose UV by pressing → or ← . Then choose the sensitivity from 0 to 8 by ↓ or ↑. 8 is the most sensitive grade. 0 means the UV detection is off.

The number key of 0-8 can be used here.

---CF of FR---
DD: 4 DE: 4
UV: 4 MT: 4
HF: ON

3



Press Start/Reset key to save the parameter and exit.

Counterfeit detection (MT)

This feature will detect the suspect notes by decoding the Metal Thread.



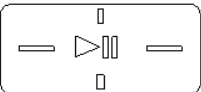
Press MT key to enable this function only in FR mode.



MT will be shown on the display which means MT detection is on (If the parameter of MT is not OFF).



If this message is displayed, the suspected note has been identified.



Take the suspected note and press Start/Reset key to continue counting, the suspected note will not be counted into the result.



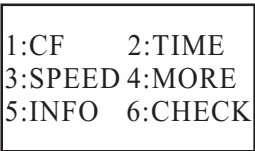
1.

To adjust the MT sensitivity, press SET key to enter into the setting interface.

Counterfeit detection (MT)

Select CF by press →← , then press SET key to enter into the next interface. Or press 1 to the next interface.

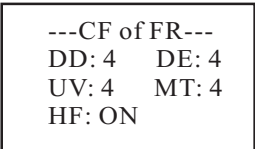
2



3.

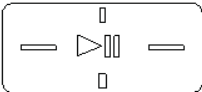


or



Choose MT by pressing →or← . Then choose the sensitivity from 0 to 8 by ↓or↑ . 8 is the most sensitive grade. 0 means the MT detection is off. The key number 0-8 can be used here.


4



Press Start/Reset key to save the parameter and exit.

Density detection

You can adjust the density sensitivity for double notes, old or new notes.

- 

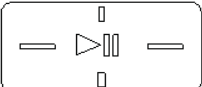
Press SET key to enter into the setting interface.
- 1:CF 2:TIME
3:SPEED 4:MORE
5:INFO 6:CHECK

Choose CF, press SET key to enter into the next interface.
- CF of EURO---
DD: OFF DE: 4
UV: 4 MT: 4
CL: ON

Choose DE by pressing ← or → .
Then choose the sensitivity from 0 to 8 by ↑ or ↓.

or


---CF of FR---
DD: 4 DE: 4
UV: 4 MT: 4
HF: ON

The number key of 0-8 can be used here.
- 

Press Start/Reset key to save the parameter and exit.

Colour/Half notes detection

This feature can detect the colour of the banknotes and half banknotes.

- 

Press SET key to enter into the setting interface.
- 1:CF 2:TIME
3:SPEED 4:MORE
5:INFO 6:CHECK

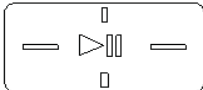
Choose CF by ← → the, press SET key to enter into the next interface
Or press 1 to the next interface.
- CF of EURO---
DD: OFF DE: 4
UV: 4 MT: 4
CL: ON

Choose CL by pressing ← or → .
Then choose ON or OFF by ↑ or ↓ .
The number key of 0-8 can be used here.

or

---CF of FR---
DD: 4 DE: 4
UV: 4 MT: 4
HF: ON

Choose HF by pressing ← or → .
Then choose on or off by ↑ or ↓ .

Remark: If colour detection is off, the machine will stop more under SD or MD mode.
- 

Press Start/Reset key to save the parameter and exit.

Background Light and Contrast

1:CF 2:TIME
3:SPEED 4:MORE
5:INFO 6:CHECK



Press SET key to enter into the setting interface, press 4 or → ← to choose MORE.

1.LIGHT: 50
2.CONTRAST: 32
3.BEEP EN: Y
4.LOAD DEFAULT



Choose LIGHT by ← or → , adjust the background light parameters from 0,10,20,30,40,50,60,70,80,90 by pressing ↑ or ↓.

Choose CONTRAST by ← or → , to adjust the contrast from 20 -50 by pressing ↑ or ↓.

Manufacturer Setting Recovery

1.LIGHT: 50
2.CONTRAST: 32
3.BEEP EN: Y
4.LOAD DEFAULT



To recover the manufacturer setting, choose LOAD DEFA by pressing 4 or ← or → . Then, press SET key to next interface.

Load defaults and exit?
1: YES 2:NO
3:CANCEL

Confirm what you choose by pressing 1.2.3.

Key Sound

1.LIGHT: 50
2.CONTRAST: 32
3.BEEP EN: Y
4.LOAD DEFAULT



Choose BEEP by ← or → , set Y/N by pressing ↑ or ↓.

Time Set (Option)

1:CF 2:TIME
3:SPEED 4:MORE
5:INFO 6:CHECK



Press SET key to enter into setting interface, Press ← or → to choose TIME.

MM 16:15:05
D / M / Y
15 / 05 / 2009



Select what you will change by ← or → , then change the number by ↑ or ↓ . Or, pressing the number key.

Press SET key to save and press Start/Reset key to exit.

Information Check

Model: H900UV
SN: XXXXXXXXXXXX
H Ver: 1.00.00
S Ver: 1.00.00
Date : XXXX.XX.XX

Select INFO to check the machine model, the serial number, hardware version, software version, and production date.

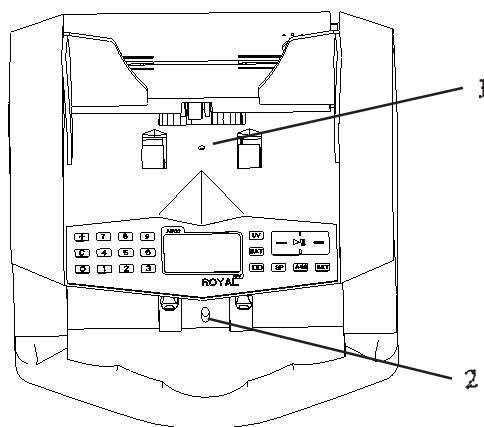
Check

1:CF 2:TIME
3:SPEED 4:MORE
5:INFO 6:CHECK

PASSWORD



This is only for professional maintenance staff to check the machine performance.



The sensors in the machine can fail if they are obscured by dirt.

Switch the machine off.

Using a dry cloth or soft brush to clean the hopper sensor 1 and stacker sensor 2.

Hopper capacity	300 notes
Stacker capacity	350 notes
Note size range	110x50-185x90mm
Speed	800,1000,1200,1500notes/min 1800notes/min is optional
Count mode	Free counting/batch counting /Single denomination counting /Mix denomination value counting
Power supply	95-245V AC 50HZ/60HZ
Power consumption	40W
Net weight	7.00Kg
Gross weigh	7.50Kg
Dimension	345*390*300mm
UV level	8
MG level	8
Density level	8
DD(Depth Detection) level	2-8mm
Other detection	Half note, Chain notes, Double notes Colour detection
Display	LCD
RS 232 port	Optional
Customer display	Optional
Acoustic noise level	<81dBA at 800rpm

Banknote Counter

-----N900 VALUE



User Guide