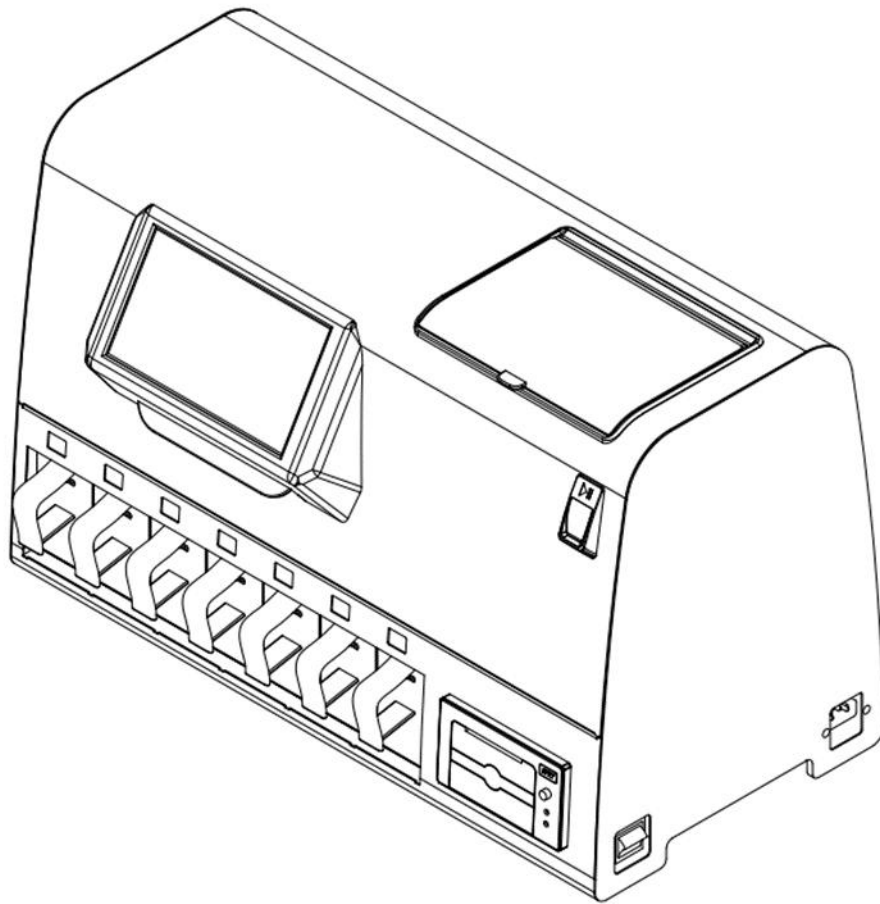


Coin Sorter

C600

OPERATION MANUAL



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1. Introduction

C600 is a coin sorter with counterfeit detection function designed and produced by our company. Its advanced alloy sensor can detect the diameter, thickness and material of coins at the same time, which can automatically identify other foreign coins, counterfeit coins, metal pieces, etc. C600 can sort different coins at the same time, and has the function of automatically identifying, counting and sorting various denominations, among which foreign coins will be automatically kicked into the reject pocket.

2. Specifications

Sorting Speed	>610 coins/min(Coin diameter based on 10 cents dollar diameter 17.9 mm)
Sorting Structure	Inclined rail type
Detection method	Material testing, diameter testing, color testing (diameter and color are optional solutions)
Coin Hopper Capacity	About 300 pieces (based on coin diameter of 25mm)
Presorting Tray capacity	About 2000 pieces (based on coin diameter of 25mm) (Optional)
Coin Box capacity	About 450 pieces (based on coin diameter of 19mm)
Sortable coin size	Diameter: 14-33mm, Thickness: 1.0-3.8mm
Number of Sorting Channel	6 genuine coin channel + 1 foreign coin channel (the diameter difference between each pair of coins should be more than 0.5mm)
Dimension	520mmx280mmx335mm
Weight	15.5Kg
Power	60W
Power Supply	AC 100V~240V, 50Hz-60Hz
Display	7-inch capacitive touch screen

Interface	USB、RS232、PSII、 LAN
Operating Temperature	0-40℃
Operating Humidity	30-75%
Noise during operation	55-85dB

3. Security

- Use the power cable and data cable configured with the machine.
- Unplug the power cable before moving the machine.
- Avoid operating the machine in direct sunlight.
- Be sure to disconnect the power supply before cleaning the sensor and clean the machine strictly as required.

4. Whole machine introduction

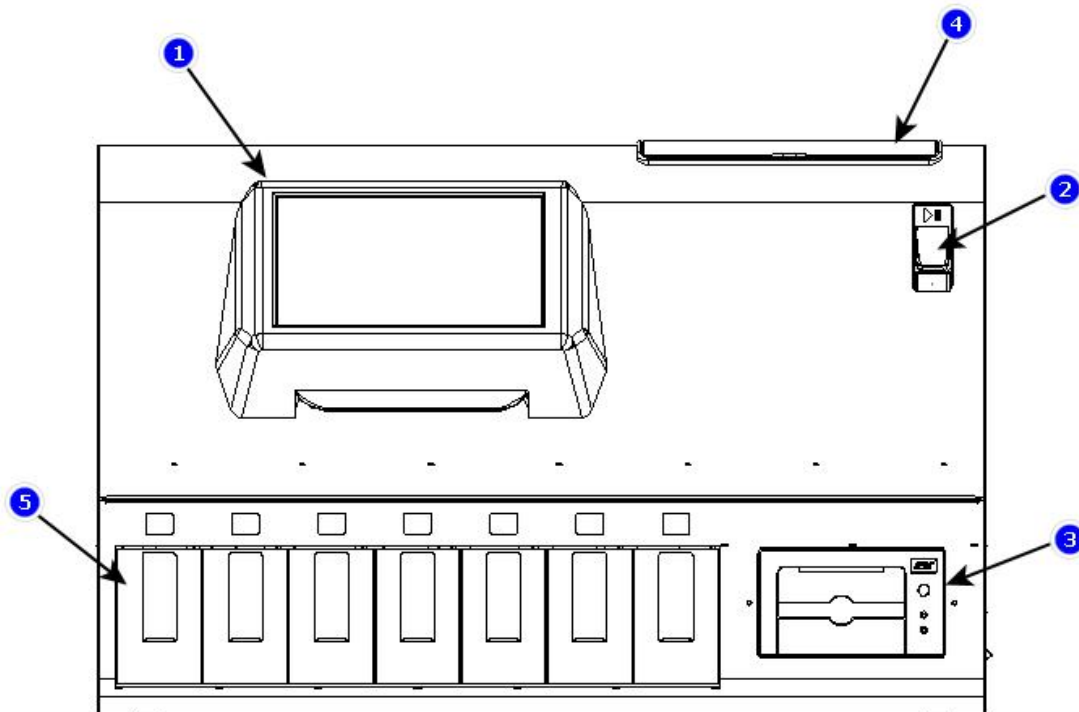


Figure 4.1 Schematic diagram of the whole machine

- ① 7-inch display: data display.
- ② Start/Stop button: control the start/stop of machine.
- ③ Printer (optional): printing of relevant data, details, etc.
- ④ Cover: coin inlet, coins can be poured in after opening the cover.
- ⑤ Coin Box: holds and receives coins.

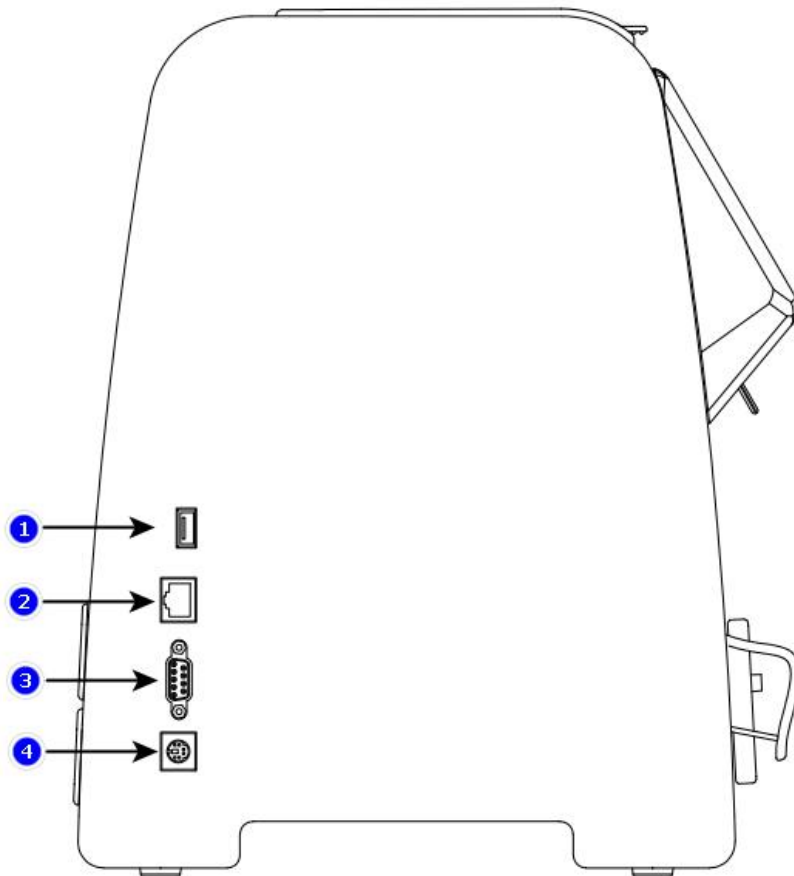


Figure 4.2 Schematic diagram of the whole machine interface

- ① USB interface: software upgrade and data import and export.
- ② Network interface: reserved feature not available for now.
- ③ RS232 interface: connection to PC and external printer (temporarily not open).
- ④ External monitor interface: connection to an external display.

5. Main Screen



Figure 5.1 Schematic diagram of the main screen

- ① Currency.
- ② Operating mode (Box/ Bag/Tube mode).
- ③ Coin counting amount and quantity, click to view the details.
- ④ Accumulation function.
- ⑤ Data clearing.
- ⑥ Total amount and quantity, click to view the details.
- ⑦ Counting data of each channel.
- ⑧ Print function.
- ⑨ User settings.
- ⑩ Preset function
- ⑪ Mode selection.
- ⑫ Channel display
- ⑬ Rejected coins.

5.1 Preference Setting

5.1.1 Mode Selection

The machine sets up three common user scenarios , Including tube mode, box mode and bag mode, and customers can make detailed parameter settings according to different application scenarios. For example, preset quantity, preset amount, preset weight, etc.

Under the main screen, click the "SET" button to enter the setting interface, as shown in the following figure.

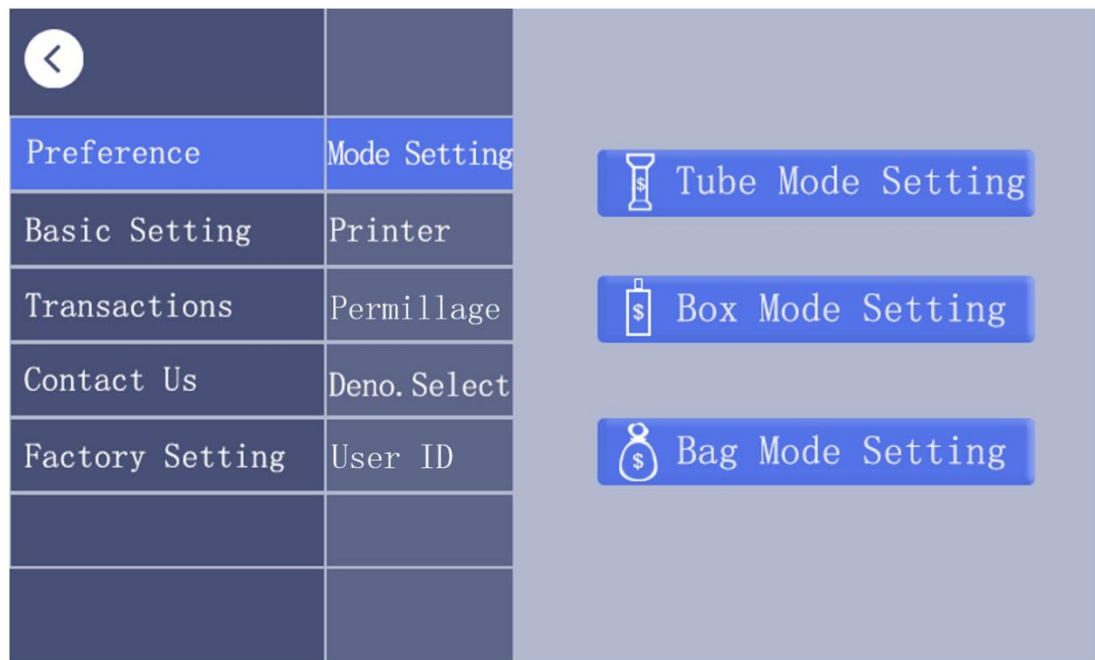


Figure 5.2

There are 3 Modes for selection.

- ① Tube Mode.
- ② Box Mode.
- ③ Bag Mode.

The screenshot shows the 'Tube Mode' interface. On the left, under 'Batch Mode', 'Pcs Batch' is selected with a blue checkmark icon, and 'Amount Batch' is unselected with a white circle icon. On the right, under 'Pcs Batch Parameter Setting', 'Batch with same Pcs' is selected with a blue checkmark icon and has a value of '0' in a text box. 'Customer Batch' is unselected with a white circle icon. Below these, there are six rows of preset values: 0.50, 1.00, 0.25, 0.05, and 0.01, each with a corresponding text box containing '0'. The 0.10 preset is also visible with a text box containing '0'.

Figure 5.3

The screenshot shows the 'Tube Mode' interface. On the left, under 'Batch Mode', 'Pcs Batch' is unselected with a white circle icon, and 'Amount Batch' is selected with a blue checkmark icon. On the right, under 'Amount Batch Parameter Setting', 'Customer Batch' is selected. Below this, there are six rows of preset values: 0.50, 1.00, 0.25, 0.05, and 0.01, each with a corresponding text box containing '0.00'. The 0.10 preset is also visible with a text box containing '0.00'.

Figure 5.4

Tube mode:

Under this mode, the user can choose quantity preset or amount preset from backstage. The default selection is quantity preset and the default number of presets for all channels is 50 pieces. If preset by total amount, The machine will stop when it reaches the amount preset by customer.

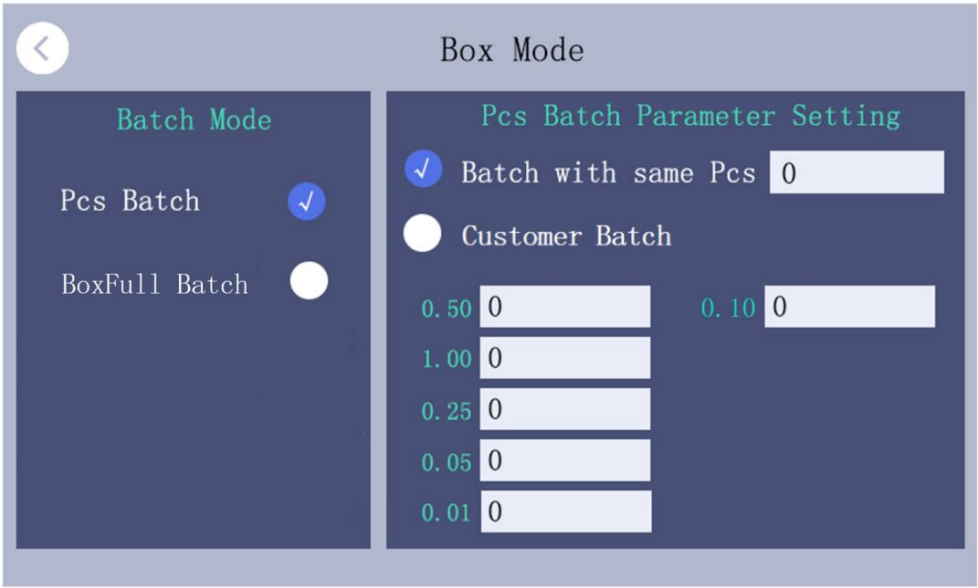


Figure 5.5

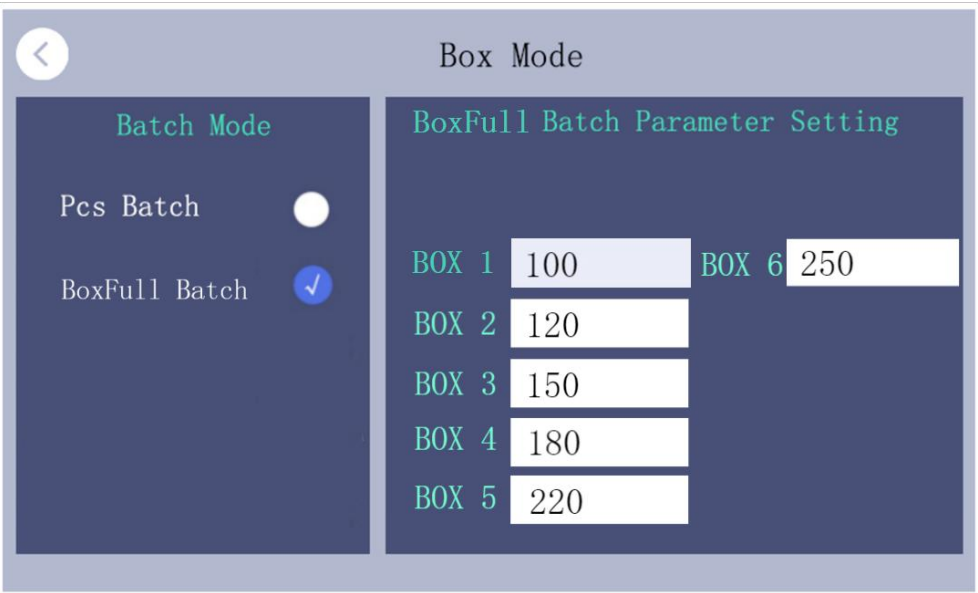


Figure 5.6

Box mode:

Under this mode, the user can choose quantity preset or volume preset from backstage, the default selection is quantity preset and the default preset number for all channels is 300 coins. If preset by volume, the machine will automatically set the number of coins for each channel according to the volume of the coin box (the current volume of the coin box is fixed) and the size (thickness and diameter) of the coins preset by the user, so that the user can preset the stop according to the actual capacity of our coin box.

Bag Mode

Batch Mode

Pcs Batch

☒

Weight Batch

☐

Amount Batch

☐

Pcs Batch Parameter Setting

☒ Batch with same Pcs

0

☐ Customer Batch

0.50

0

0.10

0

1.00

0

0.25

0

0.05

0

0.01

0

Figure 5.7

Bag Mode

Batch Mode

Pcs Batch

☐

Weight Batch

☒

Amount Batch

☐

Weight Batch Parameter Setting

☒ Batch with same Weight

0.00

☐ Customer Batch

0.50

0.00

0.10

0.00

1.00

0.00

0.25

0.00

0.05

0.00

0.01

0.00

Figure 5.8

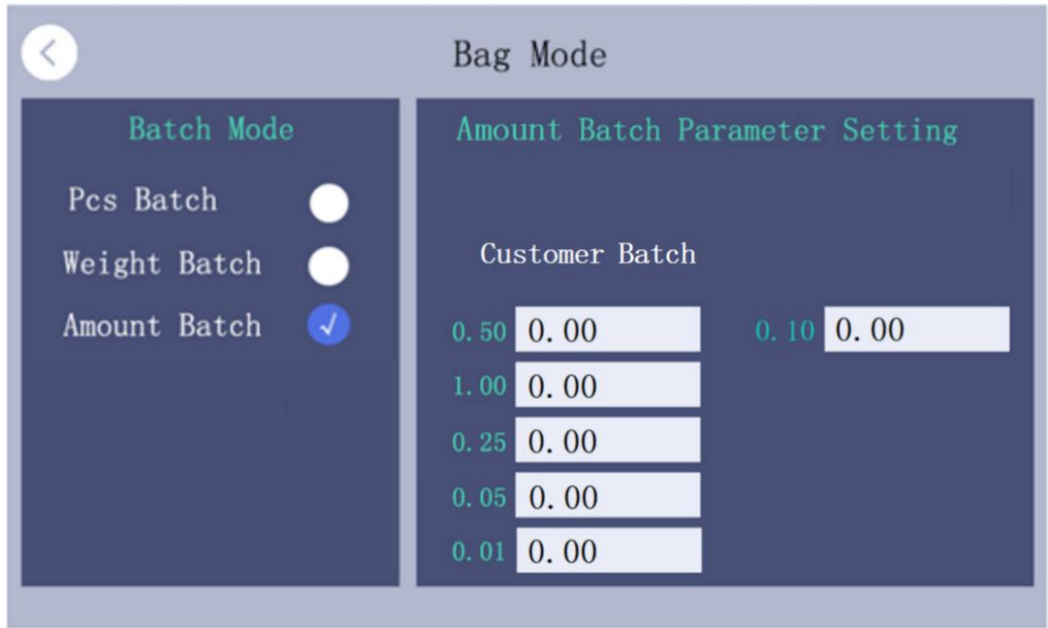


Figure 5.9

Bag Mode:

Under this mode, the user can choose quantity preset, weight preset and total amount preset from backstage. The default is to preset by quantity and the default preset number for all channels is 1500 coins. If preset by weight, after the customer sets the preset weight, the machine will confirm the number of preset stops by its own calculation based on the weight of a single coin preset by the customer in the self-learning mode. In case of presetting by total amount, after the customer sets the total amount, the machine will preset the stop according to the total amount set.

5.1.2 Printer Setting

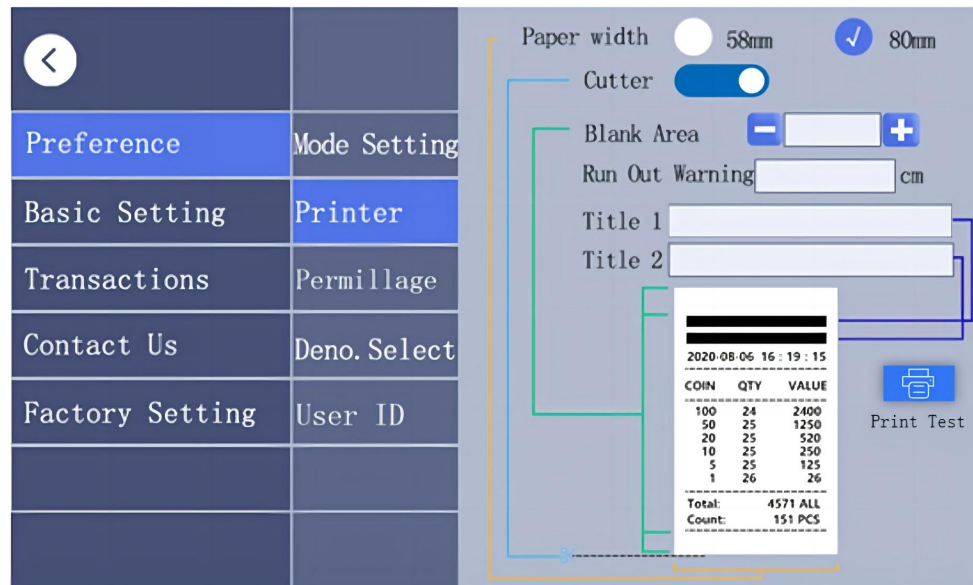




Figure 5.10

- ① Users can select the paper width of the printer, 58mm or 80mm, according to the relevant information of the printer, with a "√" in front to indicate the selection.
- ② The user can select the cutter function ON/OFF according to the information of the printer. If with the cutter function,  it means open the cutter. If not,  it means close the cutter.
- ② The customer can set header and footer according to their own use environment.
- ④ Set the length of the printer paper, click the box, the input box will pop up, click "SET" key to confirm after setting the length.
- ⑥ The user can set the header information as they required.

5.1.3 Millennium sign setting

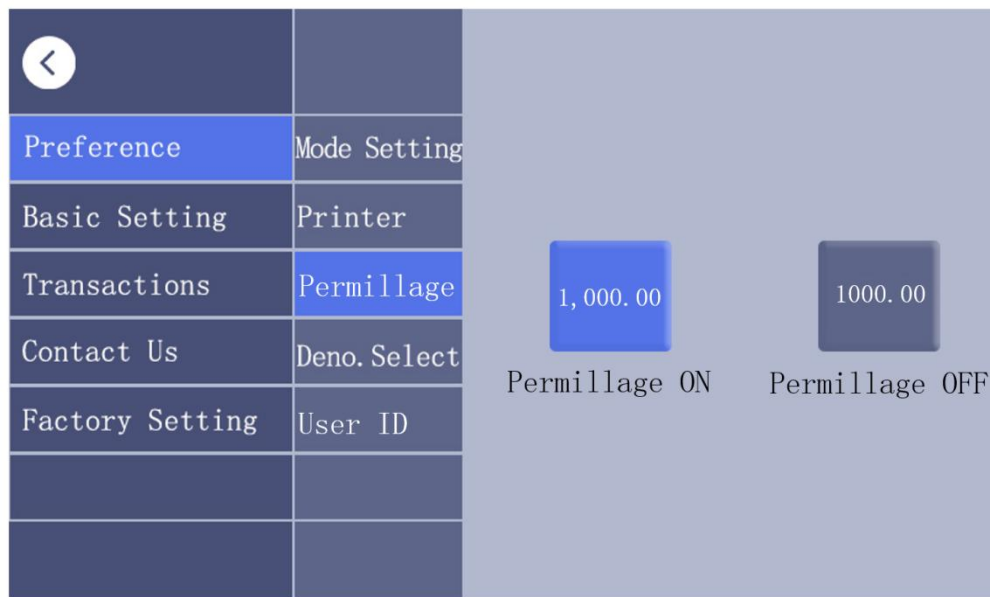


Figure 5.11

As shown in the picture above, the blue color on the left means selected, and the point coin data in the main screen will be displayed with or without Millennium sign according to the selection.

5.1.4 Enabling Currency

Users can choose whether to disable the relevant denomination according to the local coin circulation. When it is disabled, the corresponding relevant denomination channel in the main interface turns gray. And follow the message prompt at the top of the main interface to quickly access this setting mode.

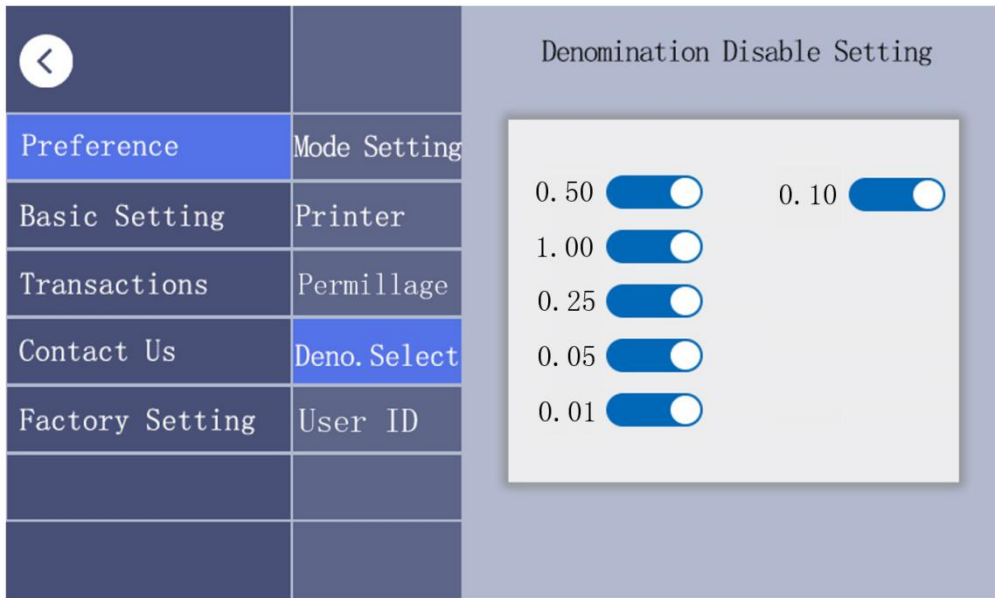





Figure 5.12

- ①  means the denomination is enabled, this denomination can be counted under main interface.
- ②  means the currency is disabled, the coins are kicked out as foreign coins, there will be an  icon in the upper right corner of the main interface. If the denomination is disabled, click the icon to quickly enter the "currency enable interface".

5.1.5 User ID

After user selects the ID number in the "User ID" interface, return to the main interface to count the coins, the data of counting coins exist in the selected ID number, at this time, you can press "Details" to check the list of all the coins, and in the list interface, you can press the print icon to print, and press "Clear" to clear all the data in the ID.

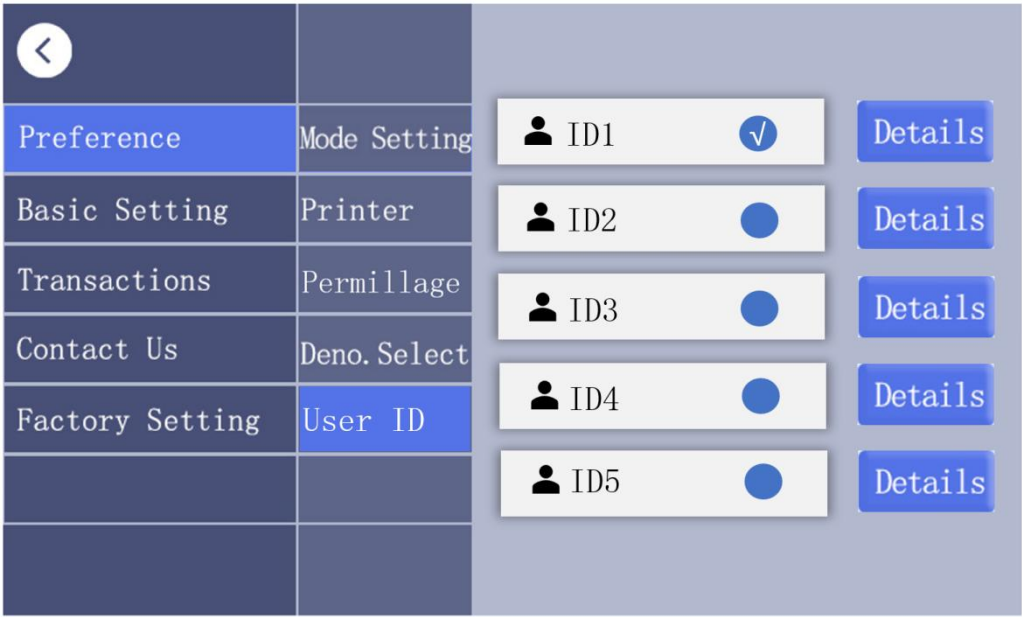


Figure 5.13

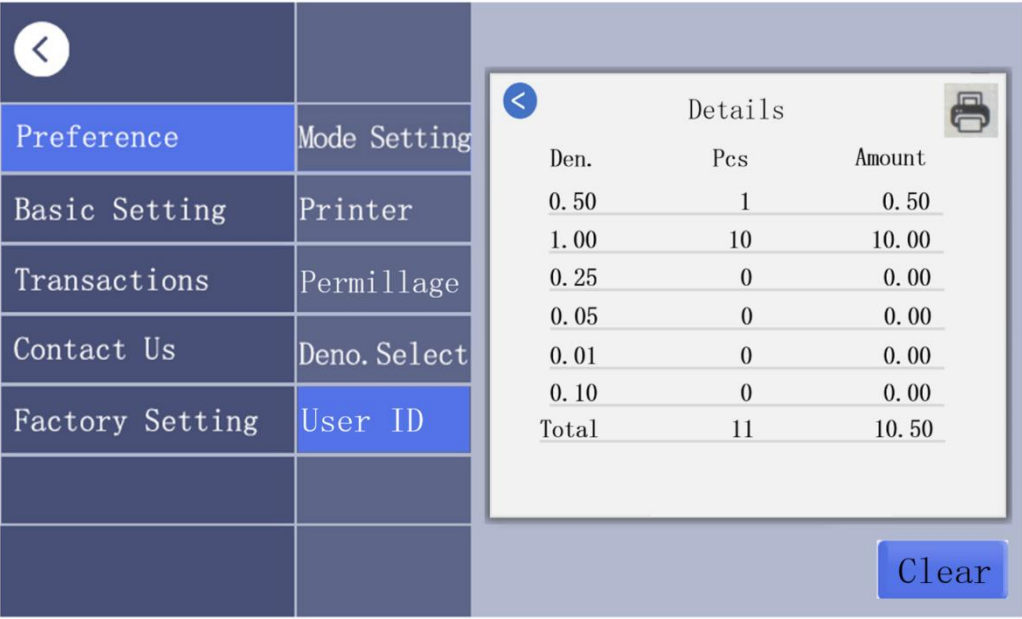


Figure 5.14

5.2 Basic Setting

5.2.1 Time Setting

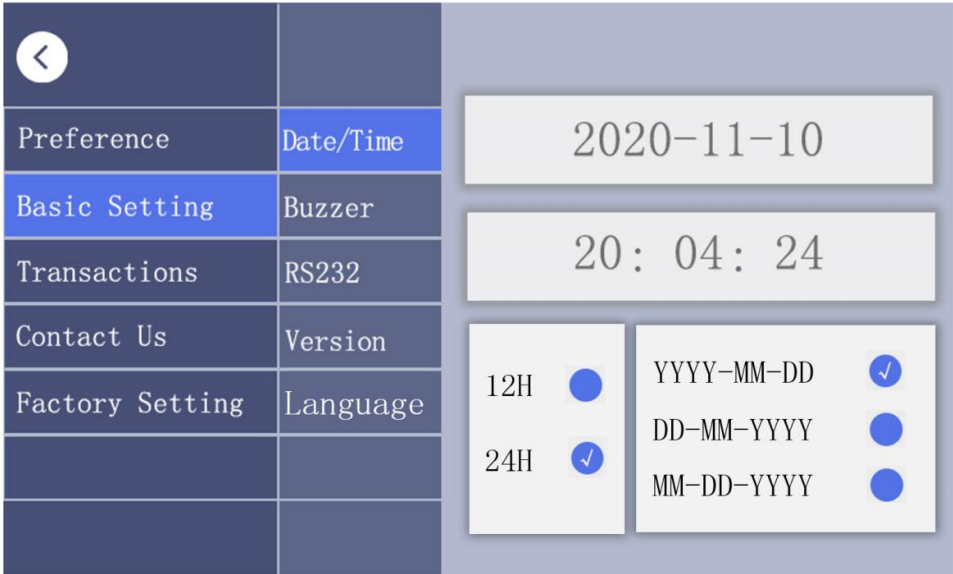


Figure 5.15

- ① Click the time digit to pop up the input keyboard, set the time data and click "SET" to confirm.
- ② The format of time is 12H, 24H, and the display order of date is chosen by the user.

5.2.2 Buzzer

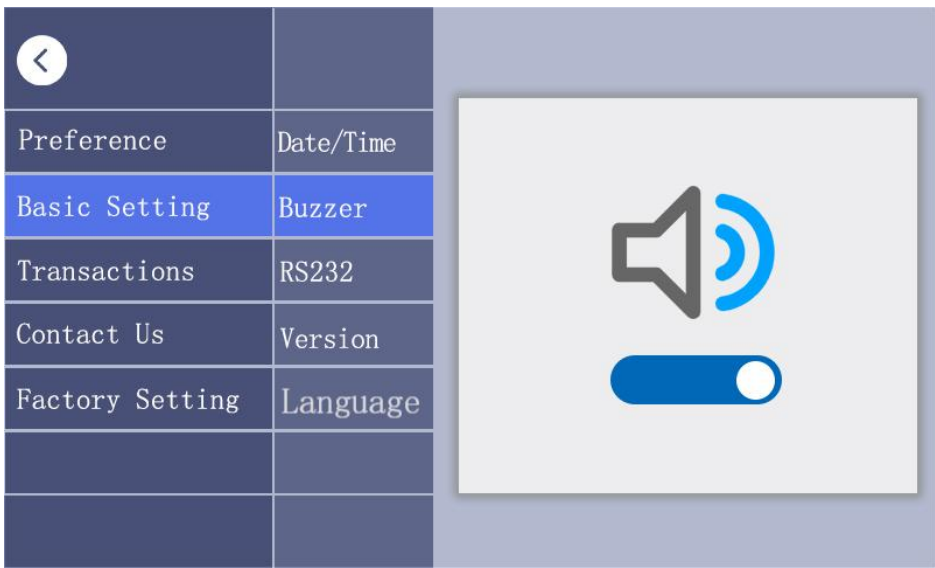





Figure 5.16

- ① Click  to select on and off
- ②  means turn on the buzzer,  means turn off the buzzer

5.2.3 Serial interface setting

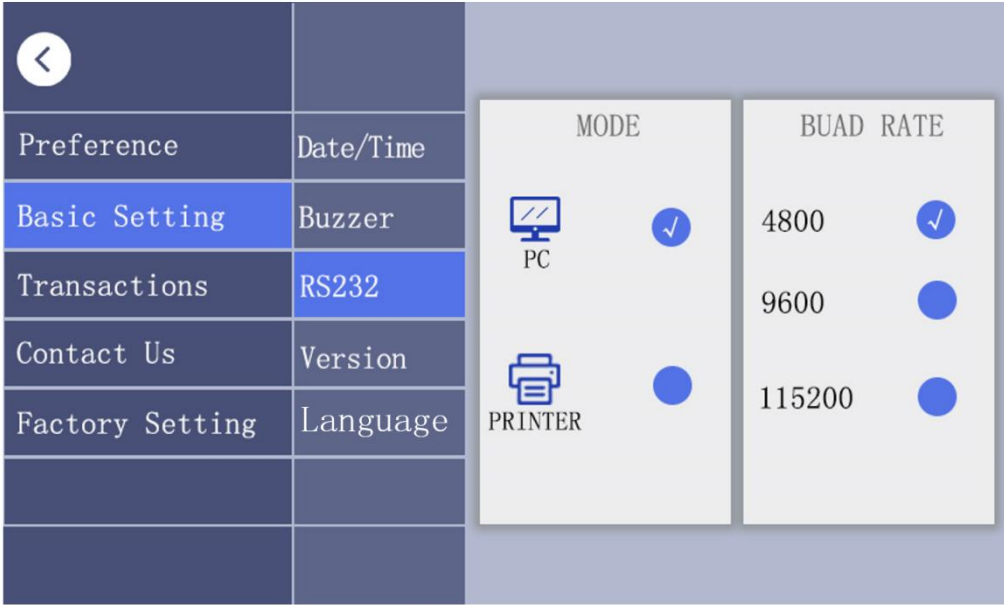


Figure 5.17

- ① The mode includes "computer side" and "printer side".
- ② The user selects the peripheral device according to the connection of the machine, which is connected through the RS232 port of the machine.
- ③ "Computer side" is used for communication with the upper computer, and "Printer side" is used to connect to the user's external printer, with ✓ indicating the selection item.
- ③ "Baud rate" is selected by the user according to the configuration of peripherals, ✓ indicates the selection item.

5.2.3.1 How to use PC software to make Data Collection

Under "RS232" interface, first touch to select "PC" in the MODE column on the left, and then touch to select the baud rate "115200" in the BUAD RATE column on the right. After completing the selection, please return to the main interface.

① Open the upper computer software provided by our company "UpperMonitor", as shown below.

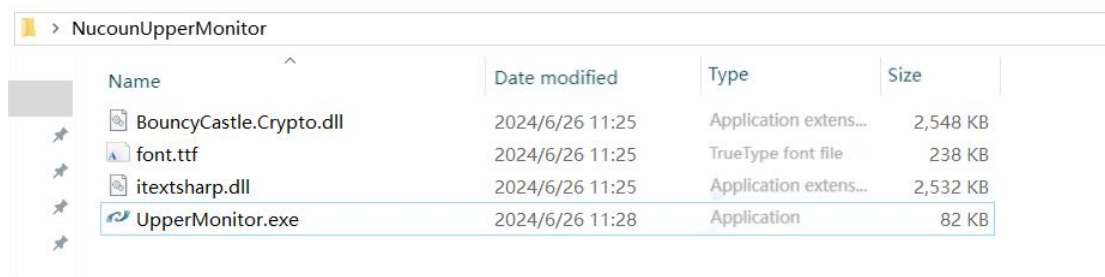


Figure 5.18

② Select serial port and baud rate, and the baud rate must be consistent with the baud rate selected on the machine, as shown below.



Figure 5.19

③ Click the Open key again, the font of serial port and baud rate will be dimmed, Open will be changed to Close, and then counting can be performed and the counting information can be checked, as shown below.



Figure 5.20

④ After completing the coin counting on the main interface and the machine stops,

click the Print button on the interface, and the coin counting data will be sent to the PC, as shown below.

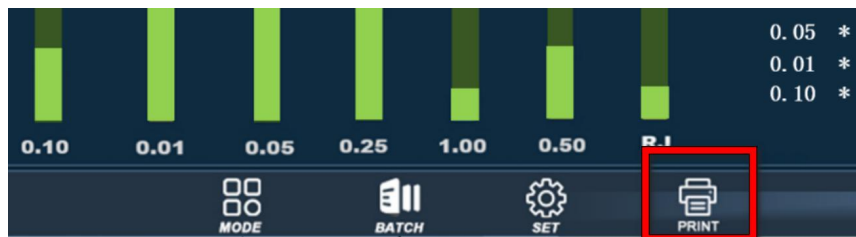


Figure 5.21

Currency List V3.10

NUCOUN

Port: COM5 Baud Rate: 115200 [Close] [Clear]

Denomination	Quantity	Amount
0.50	15	7.5
1.00	29	29
0.25	31	7.75
0.05	0	0
0.01	0	0
0.10	0	0
0	0	0
0	0	0
0	0	0
0	0	0
Total:	75	44.25

Success Currency: USD ☒ PDF

Counting details

Figure 5.22

⑤ At the same time, the folder stored in the upper computer will automatically generate a Data folder “Data”. Open the “Data” folder to find the corresponding list information, as shown below.

NOTES:

- If you mark "✓" before PDF“☒ PDF”, the counting details file will be saved in PDF format.

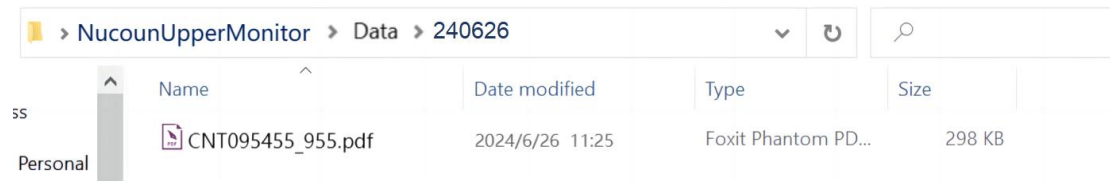


Figure 5.23

- If no "√" is marked before PDF“☐ PDF”, the counting details file will be saved in XLSX format.

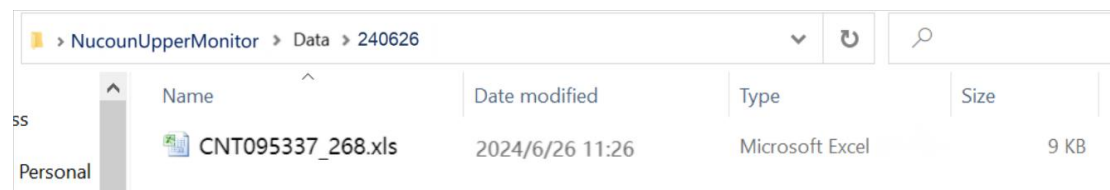


Figure 5.24

5.2.3.2 Printer Introduction

If you buy a serial thermal printer. Please confirm the corresponding baud rate first according to the printer's instructions.

In the "RS232" interface, first touch to select “**PRINTER**” in the MODE column on the left, and then touch to select the baud rate "115200" in the BUAD RATE column on the right. After the selection is complete, Then return to the main interface.

- ① Connect the printer to the power source, connect one end of the cable in the printer box to the printer, and the other end to the RS232 interface of the machine
- ② When the external printer has been connected and can be printed, after counting, click the print button on the interface, the printer will print the detail and total amount of counting. The format printed is shown below.

2024-06-26		11:20:30
VALUE	COUNT	AMOUNT
0.50	15	7.50
1.00	29	29.00
0.25	31	7.75
0.05	0	0.00
0.01	0	0.00
0.10	0	0.00
Total	75	44.25

Figure 5.25

③ If you encounter other problems, please contact our after-sales service team. The contact information of our service team is on the warranty card and product label. They will provide the perfect solution.

5.2.4 Software Version

Users can check the current software version of their machine, as shown below:

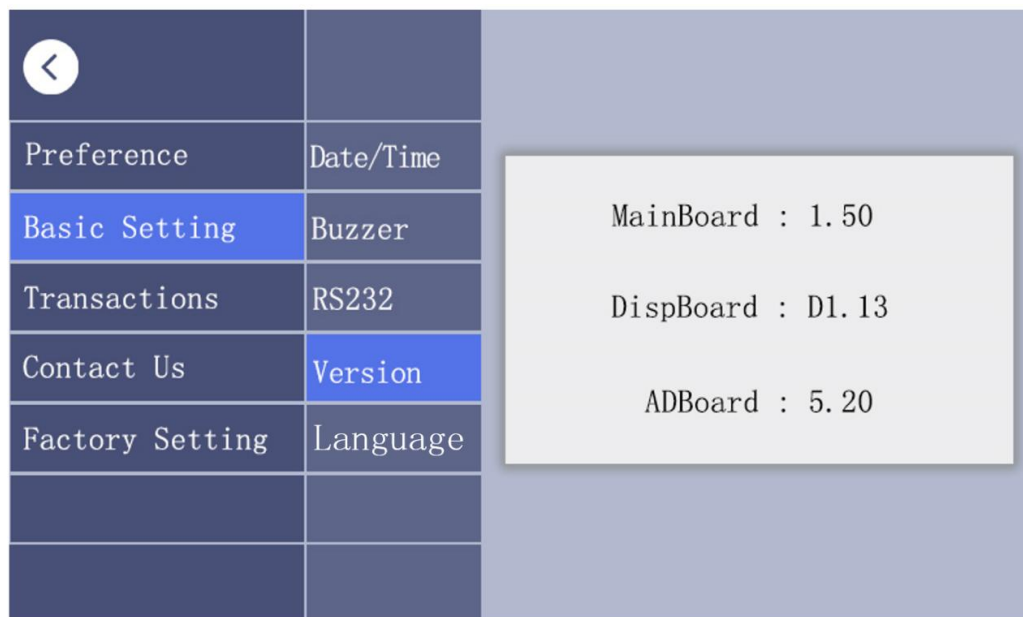


Figure 5.26

5.2.5 Language Selection

Users can select the language according to their needs.



Figure 5.27

5.3 Historical Transactions

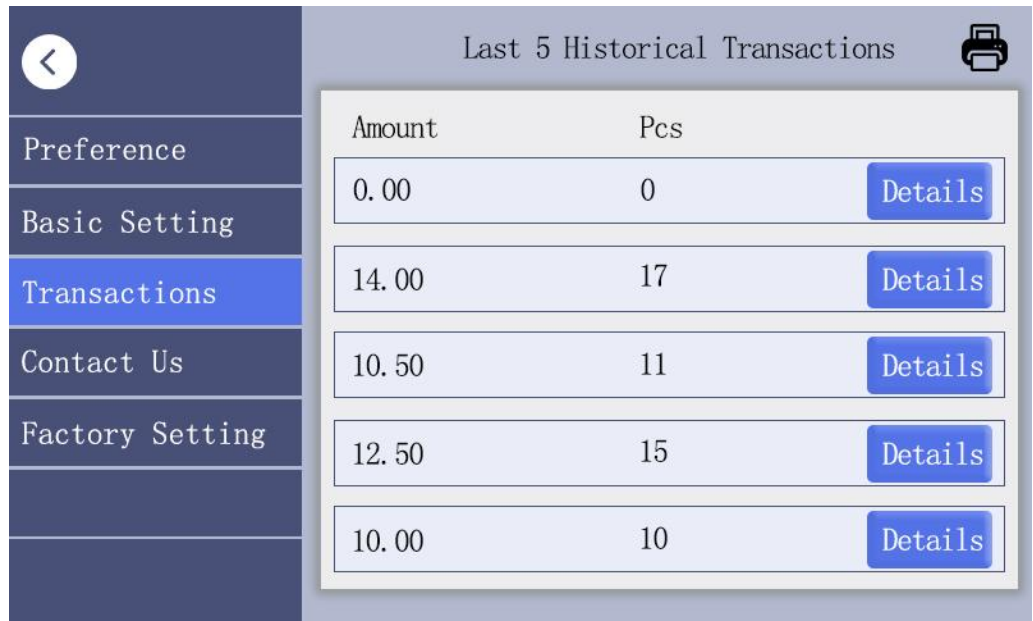
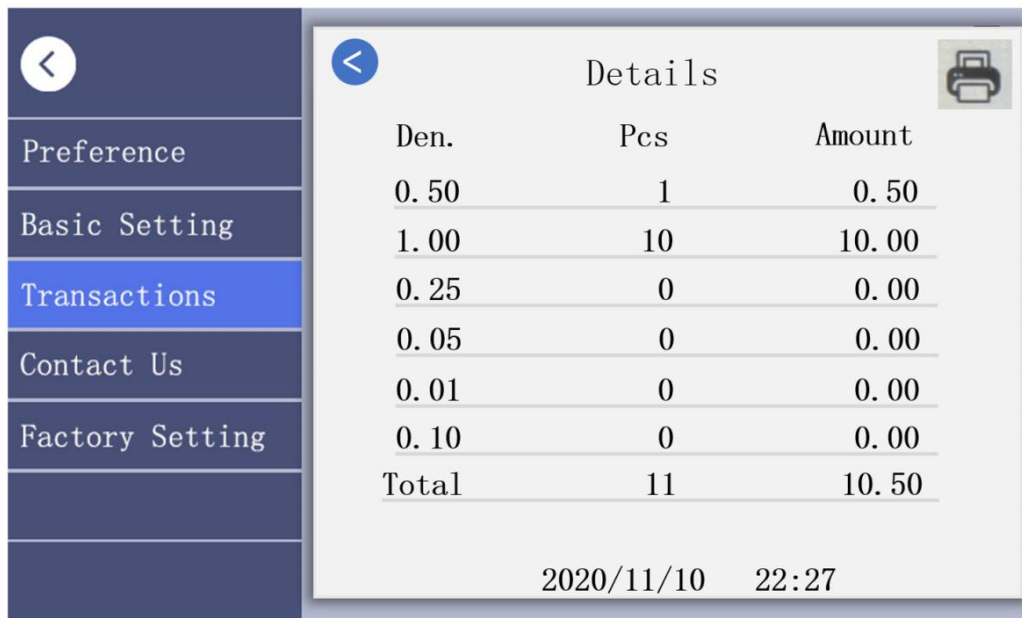


Figure 5.28

- ① The machine records the data of last 5 counts for user to check.
- ③ Click to view the detailed list, you can print the data.



Den.	Pcs	Amount
0.50	1	0.50
1.00	10	10.00
0.25	0	0.00
0.05	0	0.00
0.01	0	0.00
0.10	0	0.00
Total	11	10.50

2020/11/10 22:27

Figure 5.29

5.4 Contact information



Telephone:

Adress:

E-mail:

Figure 5.30

Displays the basic contact information of the manufacturer, supporting only alphabets and numbers. (The exact information is based on what comes with the machine)

5.5. Restore the factory settings

Click Preferences & Basic Settings, a confirmation box will pop up, click Confirm to restore the selected items.

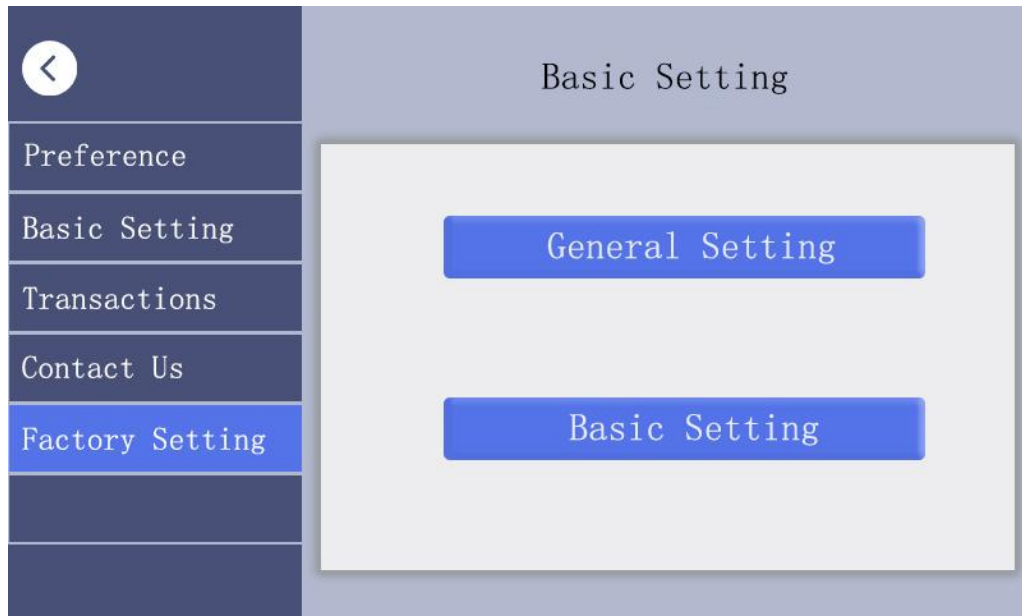


Figure 5.31

6. Information Alerts

6.1 Preset number is achieved

When the preset number reaches the user's set demand, the light above the coin hopper of the machine will light up at this time, and the corresponding main interface will prompt an alert message to remind user the preset number is achieved.

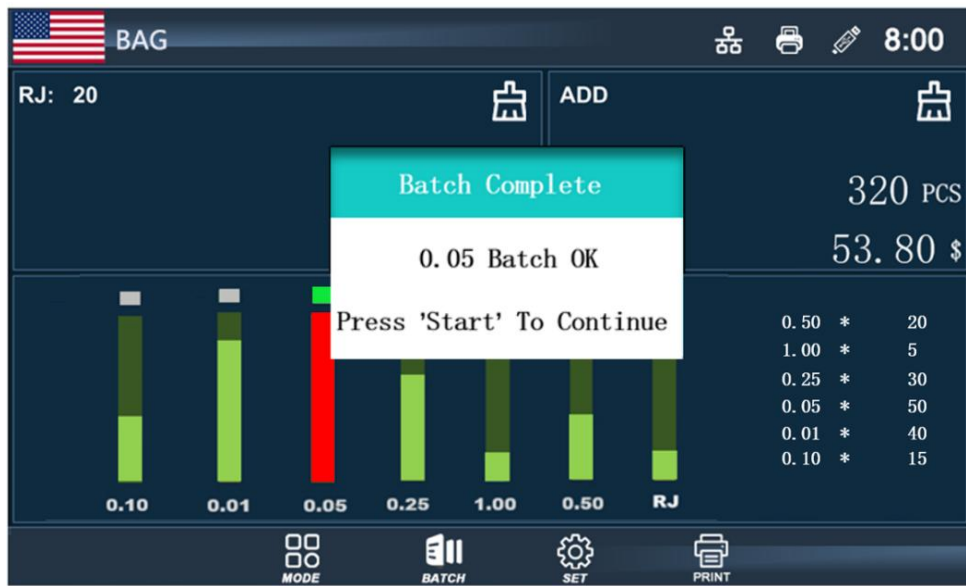


Figure 6.1

6.2 Front cover open message alert

When the user lifts the front cover, the machine will report an error indicating that the safety switch is not turned off, and the main interface will prompt a warning message as below

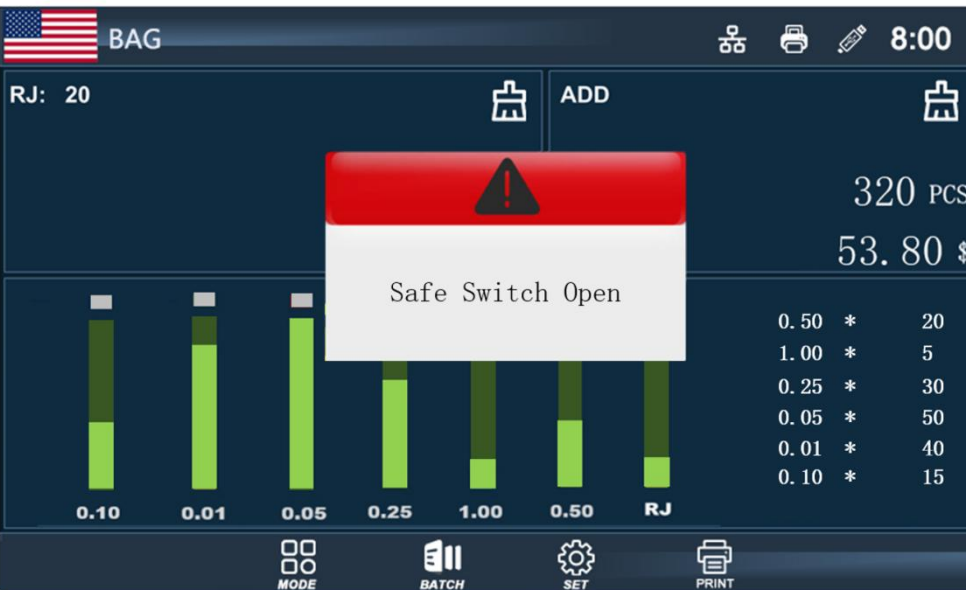


Figure 6.2

6.3 Fault message alert

If W1, W2, W3 potentiometer is not adjusted to OK, the machine boot will appear an error message as shown below, you need to adjust the corresponding potentiometer on the AD board to the appropriate position.

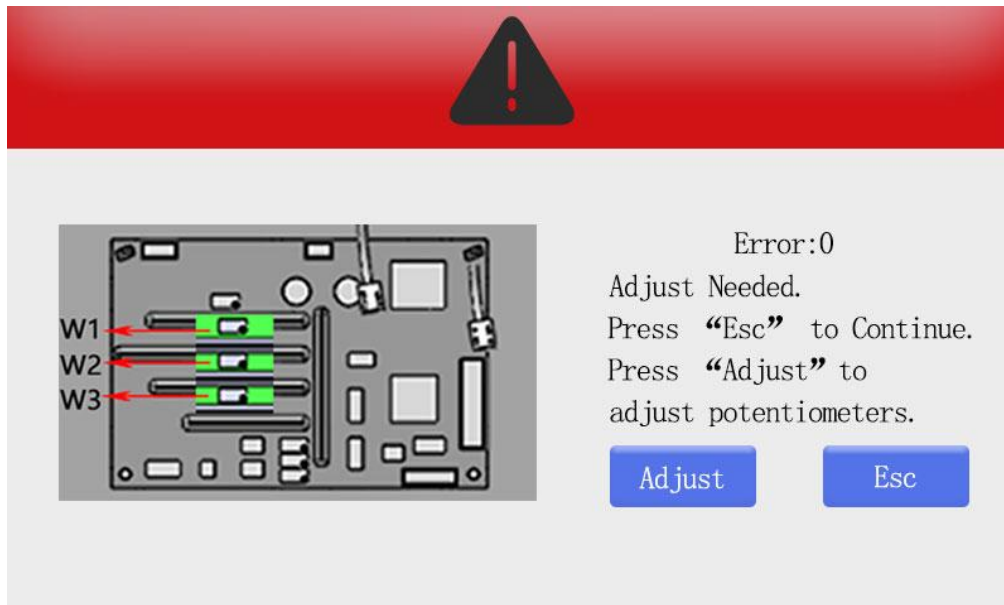


Figure 6.3

6.4 Error code list

NO.	Reason for error	Error Code	Solution
1	AD board not set to OK	Error 0	Check if the value of potentiometer is adjusted to OK
2	Infrared pair tube is blocked	Error 01	Check if there are foreign objects at the back of the sensor.
3	Second pair of tubes obscured	Error 02	Check if there are foreign objects at the second pair of tubes
4	The third pair of tubes is obscured	Error 03	Check if there are foreign objects at the third pair of tubes
5	Card Coin Alarm	Error 04	Check if there are coins stuck on the rail

7. Software Upgrade

In the state of the machine off, insert the USB disk into the USB port on the machine power socket board, press and hold the start button, and then turn on the power, after hearing a "drop" sound, enter the upgrade interface, the display is as follows:

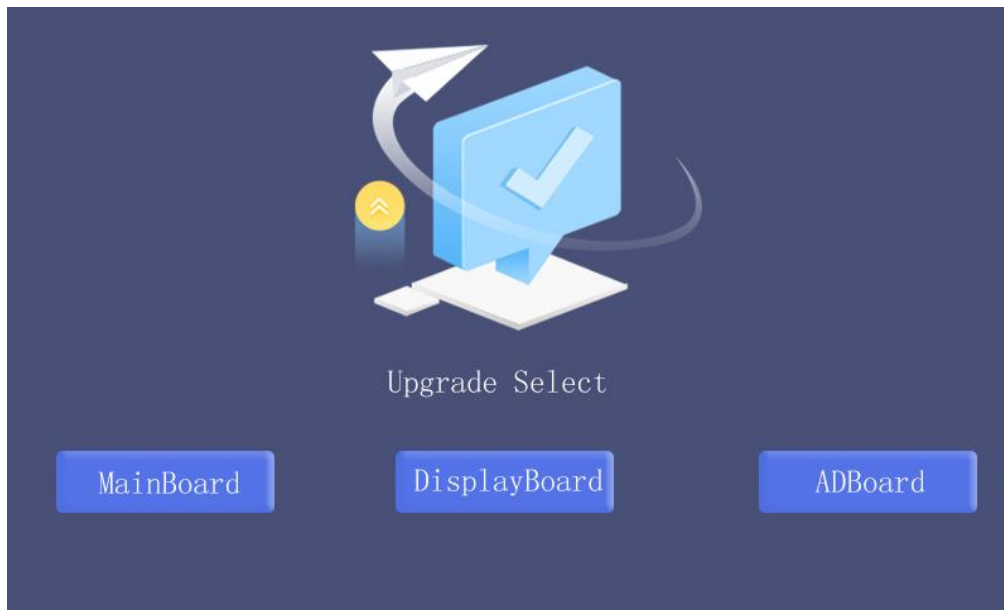


Figure 7.1

Main control software and AD software need to be upgraded with USB flash disk, Store the main control upgrade files in the "APPFILE" folder of the root directory of the USB flash disk. and place the AD upgrade files in the "ADFILE" folder of the root directory of the USB flash disk. For example, to upgrade the main control program, click the "Mainboard" button in the upgrade interface, there will be a drop prompt when the upgrade is successful, and the interface will return to the upgrade interface. Repeat the above operation for upgrading AD software.

Before upgrading the display software, it is necessary to remove the display back cover, lift the front cover, use a Phillips screwdriver to remove the two screws that secure the display back cover, and remove the display back cover. As shown in the figure below:



Figure 7.2

The display software needs to be upgraded by SD card, put the display software folder "DWIN_SET" in the root directory of SD card, insert the SD card into the SD card slot of the display board under power off state, then turn on the power, and the display software will start upgrading automatically. When the upgrade is finished, there will be a prompt of upgrade completion on the interface.

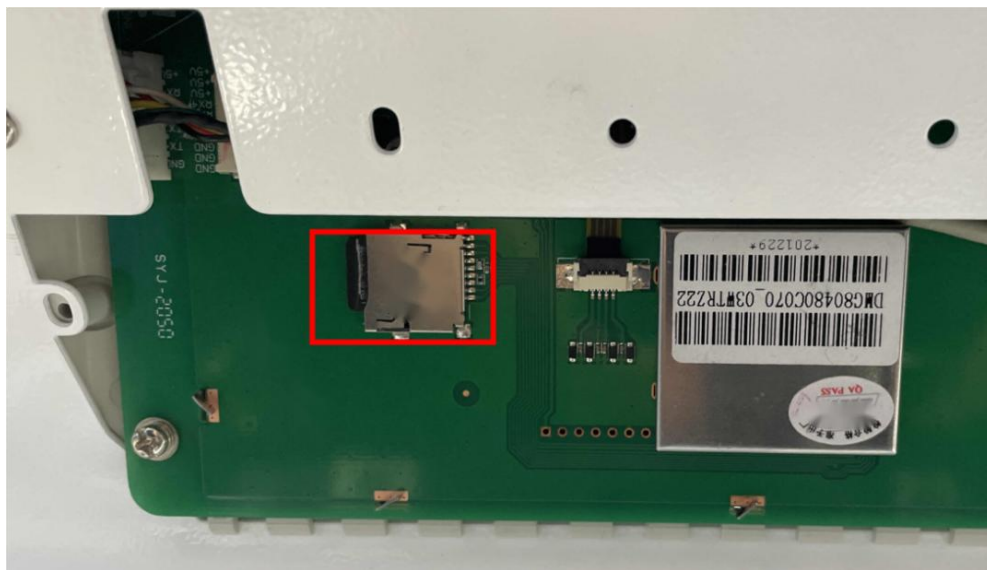


Figure 7.3 SD Card Installation Position

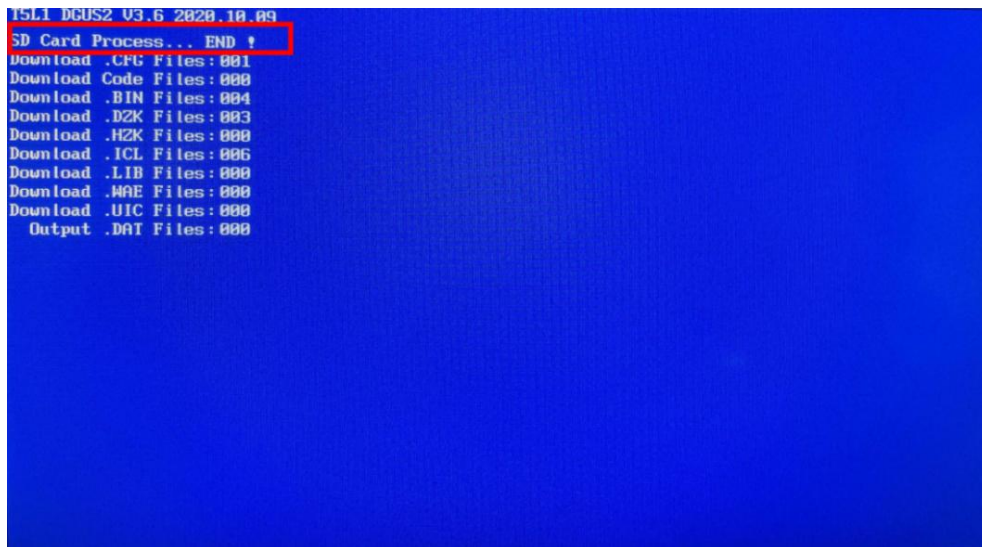


Figure 7.4 Displaying the upgrade completion prompt

After the upgrade is completed, please reinstall the display back cover.

In this case, there are 2 possible reasons for the upgrade failure.

(1) The upgrade file in the USB flash drive or SD card is in the wrong format or does not exist. Solution: Power off the machine and check if the upgrade file in the USB flash drive exists and the format is correct. Confirm and repeat the above upgrade steps.

(2) The USB flash drive or SD card is not compatible. Solution: Replace the USB flash drive or SD card, and then repeat the above upgrade steps. In order to reduce the occurrence of such problems, it is recommended that the USB flash drive used for the upgrade should meet the following conditions:

- ①The file system attribute of the USB drive is FAT32.
- ②The USB flash drive has not been processed in other formats, such as made into a hard drive to upgrade the computer operating system.
- ③The USB flash drive must not have missing storage.

8. Daily Maintenance

- Always unplug the power before routine maintenance.
- Avoid operating in direct sunlight.
- Do not put your hands, tools and clothes into the coin hopper to avoid personal injury or machine malfunction.
- Do not open the front cover of the machine during operation.
- Clean the guide rails and backrest plate at least once a day.
- Clean the metal sensor with a brush at least once a day.
- Clean the turntable and hopper with a brush at least once a day.

9. Accessories

1. Power Cable	1 pc
2. Coin Tube Set	2 sets
3. Cotton Bag	2 pcs
4. Nylon Brush	1 pc
5. Extra Plastic Trays	1 pc
6. Warranty card	1pc

Our company reserves the right to change the Manual in order to continuously improve our products.