FC-160HS CHECK WEIGHER

Operating Instruction

Note: Before using the machine, please carefully read this instruction, which should be well saved for the future reference; besides, before operating it, please carefully read the Attention sections in this instruction.

Contents

Brief introduction:

FC Series Check Weigher is our company's newly-developed product, which can be used to dynamically test the weigh of the product with measuring range of less than 1.5 kilogram on-line. With the Germany HBM sensor, advanced information processing software of dynamic weight and a variety of software, electronic and machine options, this series of check weigher can meet the requirement of on-line weighing in such industries as pharmacy, daily chemical, food and battery.

Attention:

Before operating this machine, please carefully read this instruction so as to avoid possible damage. This instruction should be well saved.

To operate this machine safely and conveniently, the rules specified as below should be followed:

! Don not use this machine in dangerous areas.

! Confirm the marked voltage value to be the same as local voltage value.

— The only way to cut off electricity of this machine is to pull the plug.

— Only can the accessories and options specially designed for this type by Bofeng Electronics Company be used.

— Keep the transformer and display control unit away from liquid.

— Do not let liquid soak into the display when cleaning it. Only use wet cotton fabric to clean the monitor.

Ⅰ. Basic Operating Steps

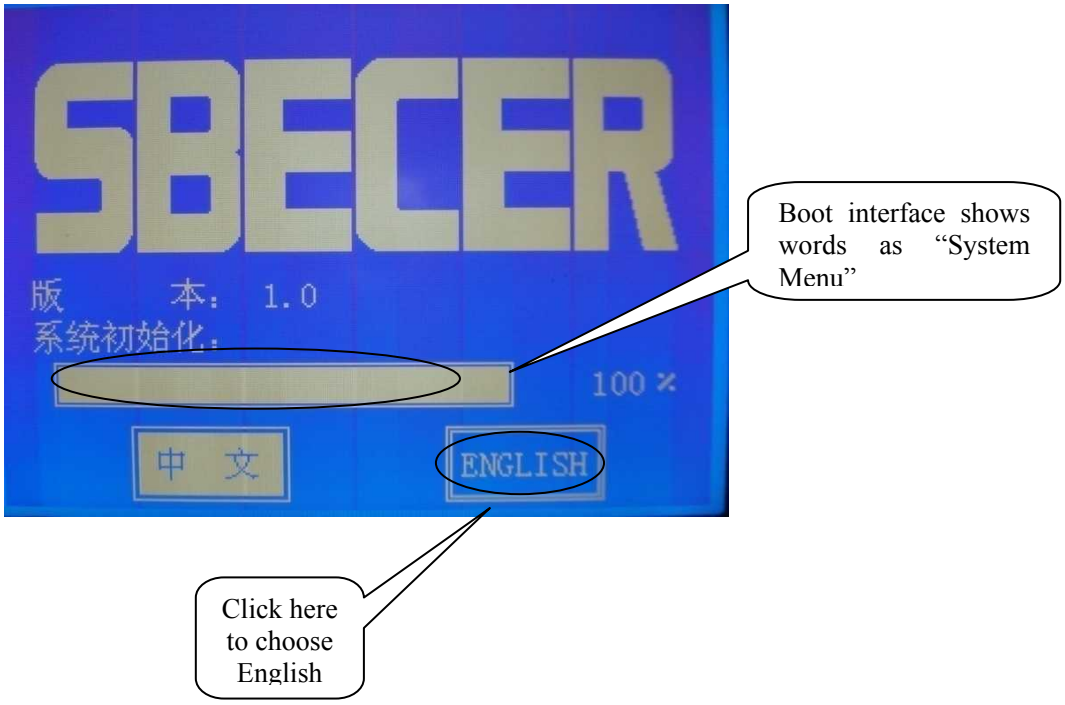
1. Language selection

1.1 Operating steps:

Start Up ⇨ Language Selection

1.2 Operation guide:

Please click the selection box with language name on the LCD display interface.



1.3 Function explanation:

The system provides two kinds of language: Chinese and English. Choose one of them as operation prompting language, and the report is to be printed in the operation language selected.

1.4 Attention:

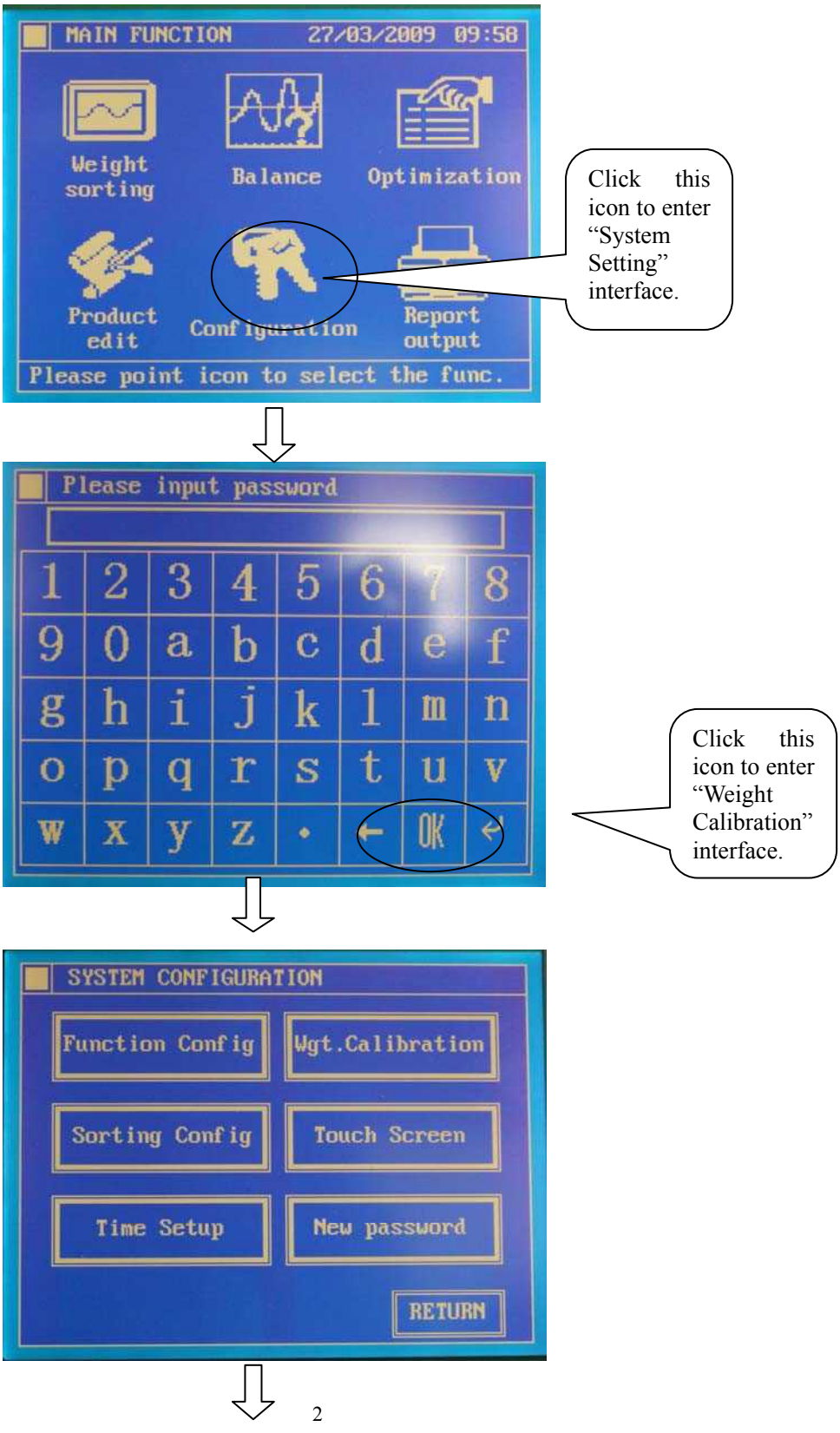
When the language selection interface first appears, the system default language is the one selected last time. If changing language is necessary, it should be completed within five seconds.

2. Weight calibration

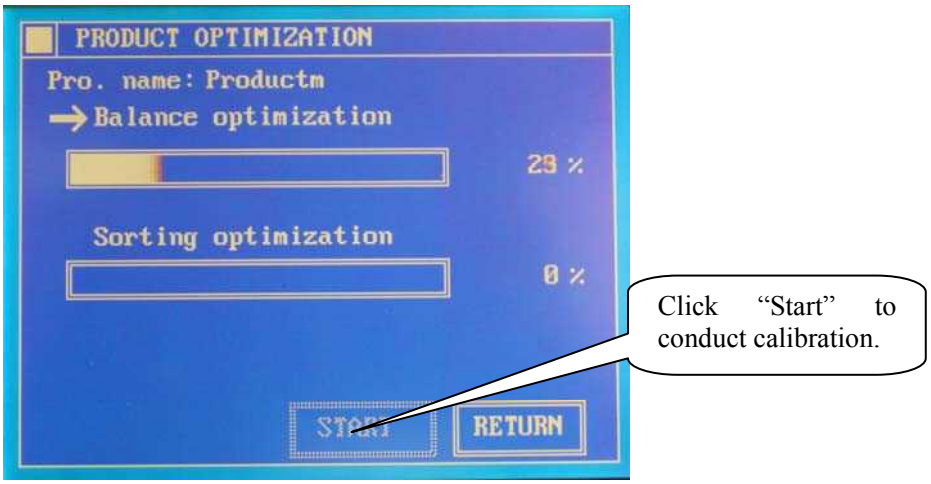
2.1 Operating steps:

System Menu ⇨ System Setting ⇨ Input Password ⇨ Weight Sorting

2.2 Interface Instruction:



2.3 Function explanation:



Weight calibration can ensure that the machine runs normally, to promote accuracy and reduce measurement error.

2.4 Attention:

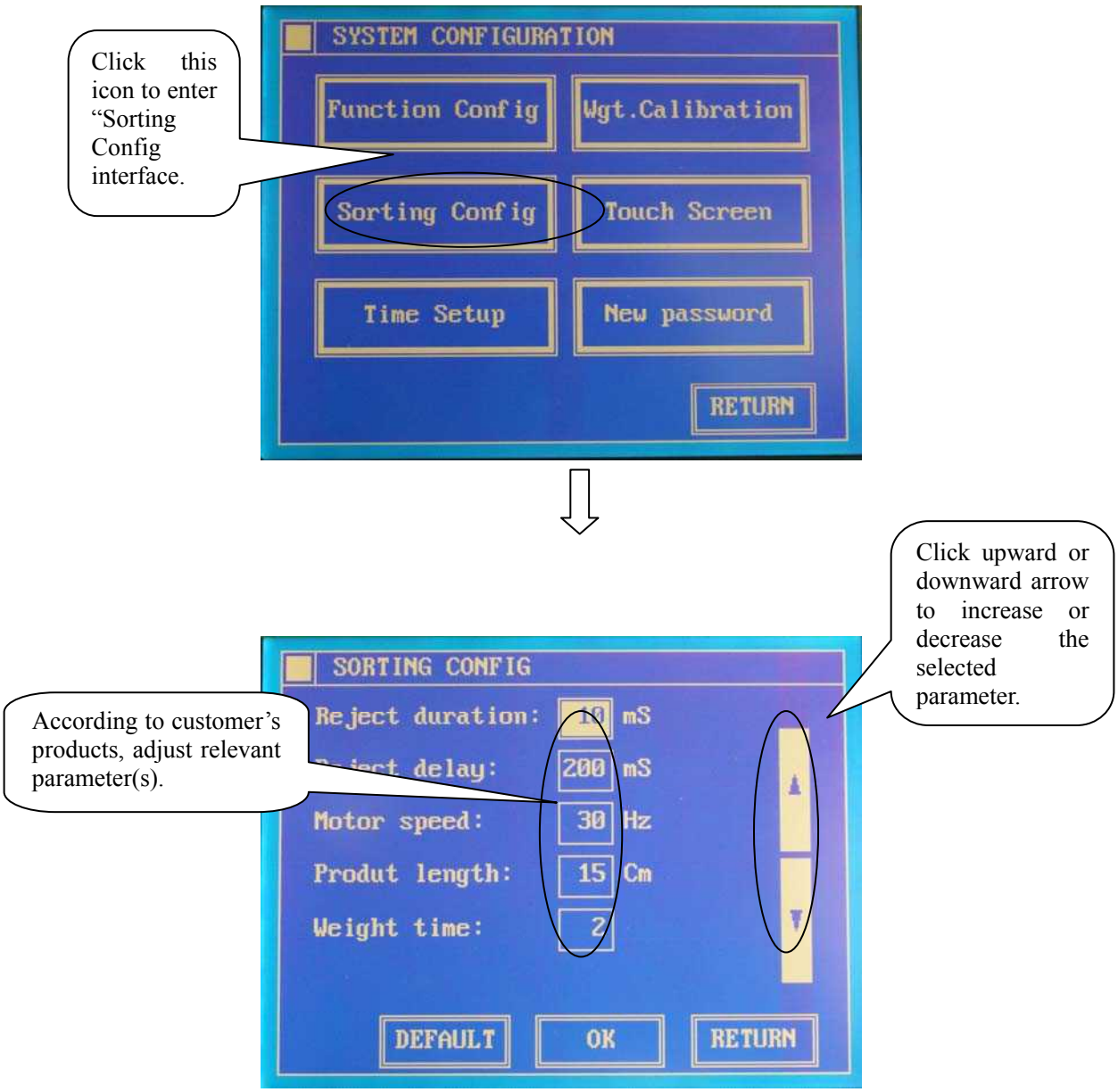
When performing weight calibration, please follow interface prompt step by step, and make sure that the weighing platform is empty while conducting zero-scale calibration. When conducting full-scale calibration, put the weight at the center of weighing platform, and then after the weighing platform gets stable, click "Continue" to complete full-scale calibration. The weight mentioned in the diagrammatic view is the standard weight provided by our company. The weight 1kg is for FC-230NS, and 200g is for FC-160HS.

3 Parameter setting

3.1 Operating steps:

System Menu ⇨ System Setting ⇨ Input Password ⇨ Sorting Config

3.2 Interface instruction:



3.3 Function explanation:

Sorting Config function allows customers to set the relevant parameter(s) according to their own products in order to promote the measurement accuracy. Click "Default" to restore the "Factory Setting".

3.4 Attention:

All of the parameter setting is the attribute assignment of present loaded products, and the new-set products adopt default parameters. Parameters are defined as below:

Separating time: The time from the obtaining of product weight to the acting of removing mechanism in the process of separation.

Delay time: The time from the acting of removing mechanism to the reposition of removing mechanism.

Motor speed:

FC-230NS Check weigher

Set up the test speed for the present product. *m* stands for motor speed, and *V* stands for belt speed.

$$V = (2m - 10)\mathrm{m/s}$$

FC-160HS Check weigher

Set up m stand for the number of the speed of the belt circle. And V stands for the belt speed.

$$V = (2m - 10)\mathrm{m/s}$$

Product length: The product length measured by the customer. 230 series less than 25cm, and 160 series less than 15cm.

Weighing time: According to the difference of product attribute, increase the weighing time to gain the more ideal measurement accuracy if the measurement accuracy is too low.

If there is any discrepancy in parameters setting, please contact with the manufacturer.

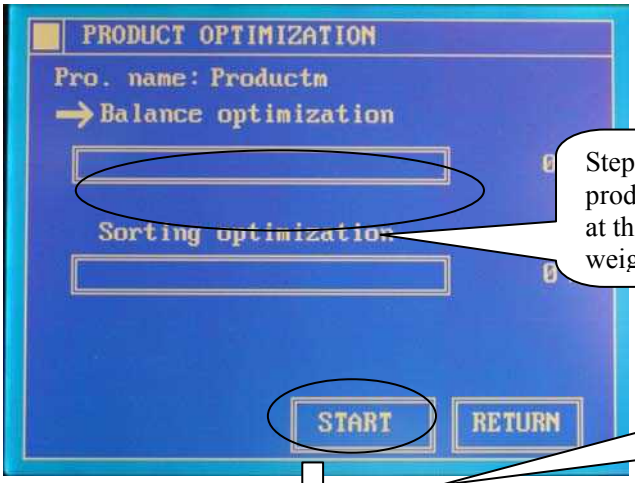
4 Objective optimization

4.1 Operating steps:

System Menu ⇨ Optimization

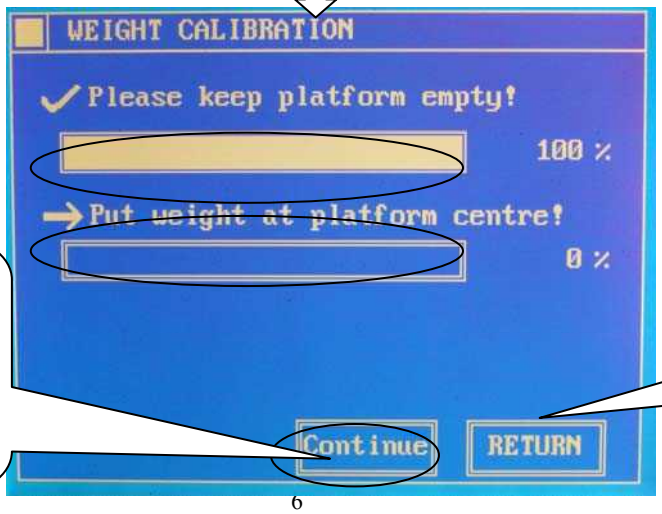
4.2 Interface instruction:

Click this icon to enter "Objective Optimizatio n" interface.



Step 1: Put the product to be tested at the center of weighting platform.

Click "Start" to conduct static optimization.



Step 2: Click "Continue" to conduct dynamic optimization. Put the product to be tested on the weighting platform for five times so as to finish dynamic learning.

Static optimization completed.

4.3 Function explanation:

Product optimization is the process of statically and dynamically learning the present-loaded product to ensure the obtainment of accurate product weight in separation.

4.4 Attention:

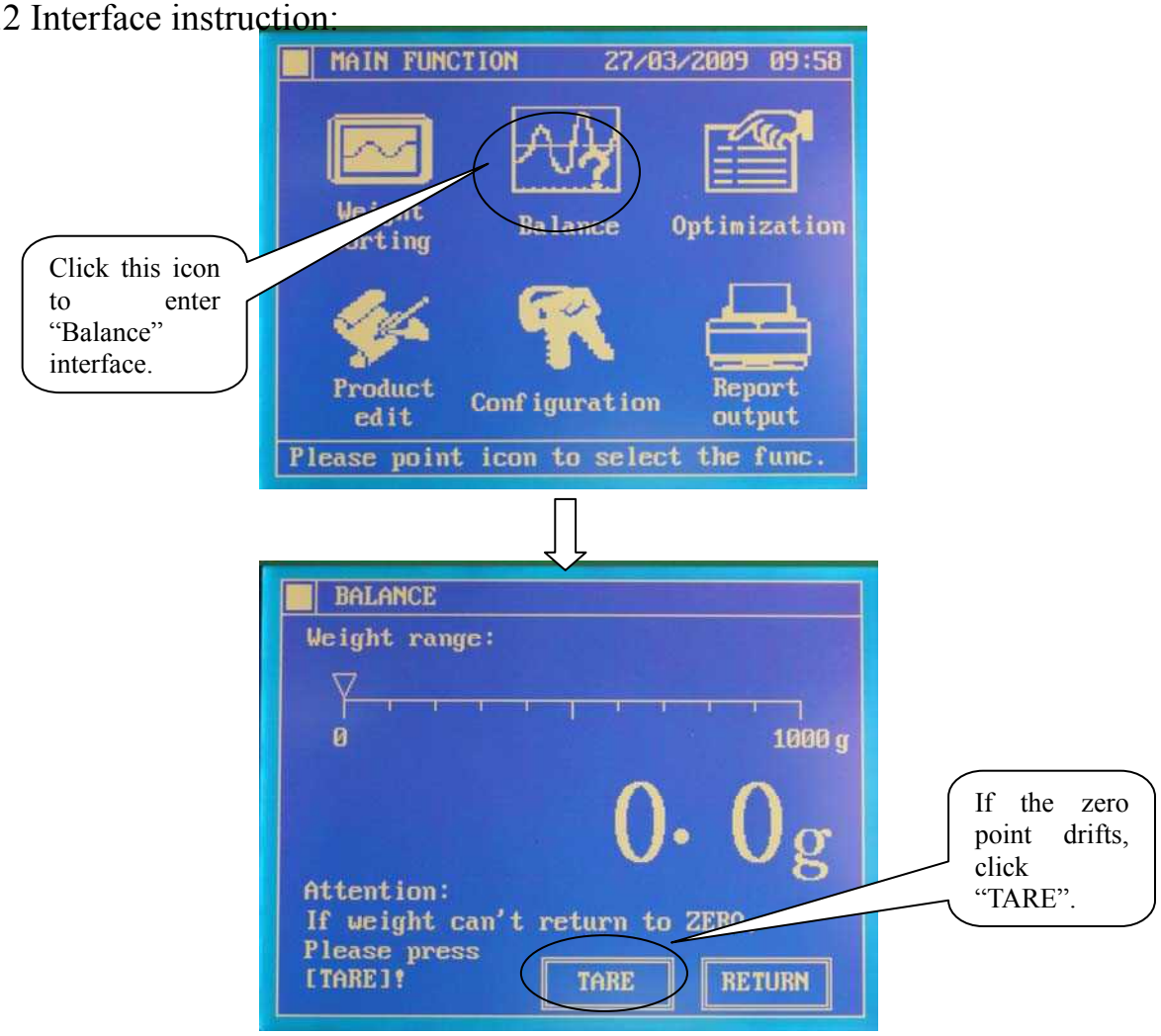
In the process of static optimization, the product should be put at the center of weighing platform. After the product on the weighing platform becomes stable, click “Start”. In the process of dynamic optimization, simulate the separation process to put the product on the weighing platform for five times so as to finish dynamic learning. For the new-set product, the optimization process should be performed in order to ensure measurement accuracy; the product, for which optimization has already been done, can be directly loaded in the next measurement.

5 Balance:

5.1 Operating steps

System Menu ⇨ Balance

5.2 Interface instruction:



5.3 Function explanation:

Through this function, the customer can get the static weight of the product. The weight of the products should be lower than 1kg for FC-230 series and 200g for FC-160 series. The target weight of new-set product can be obtained via this function.

5.4 Attention:

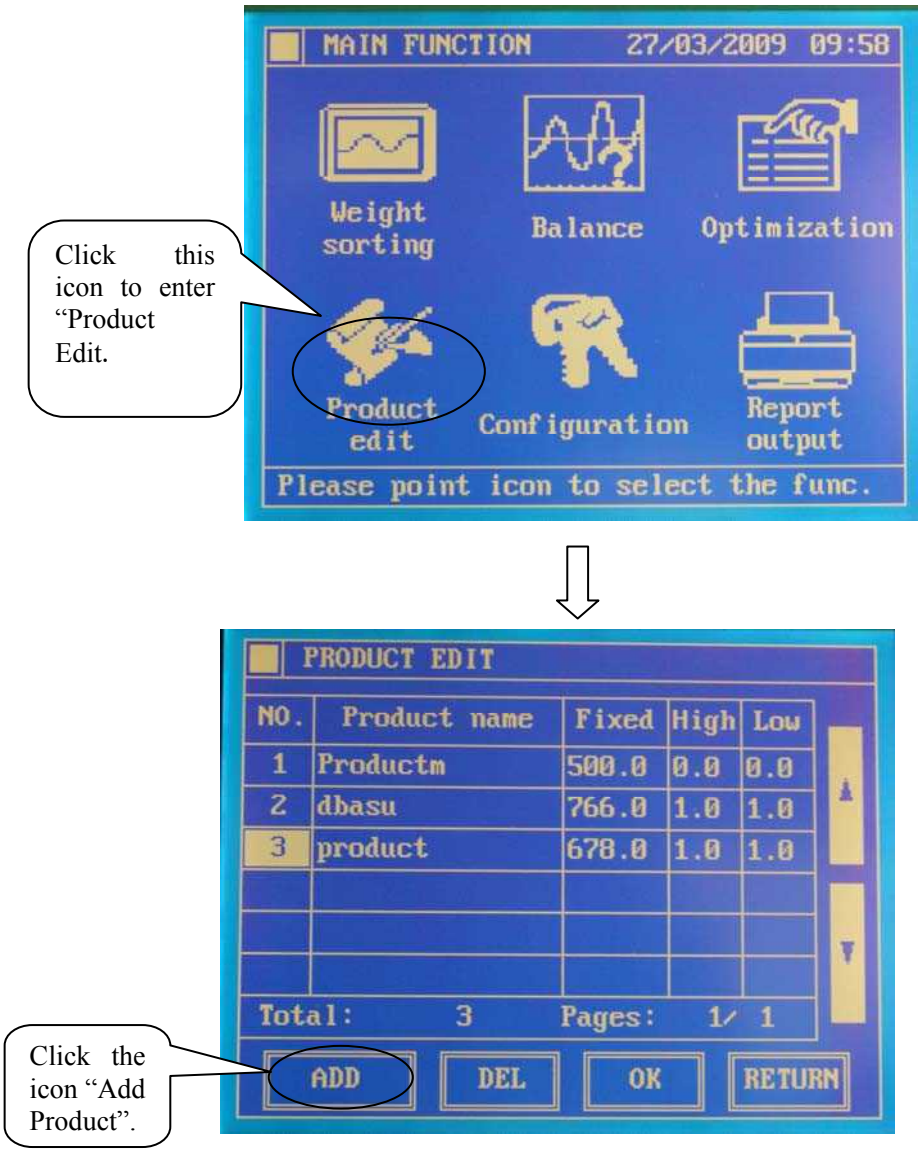
The displayed number should be zero after the weighing platform is emptied. If the zero point drifts, click "Zero Clearing" to get new zero point; in case that the zero point cannot be obtained, perform the weight calibration again in the system setting interface.

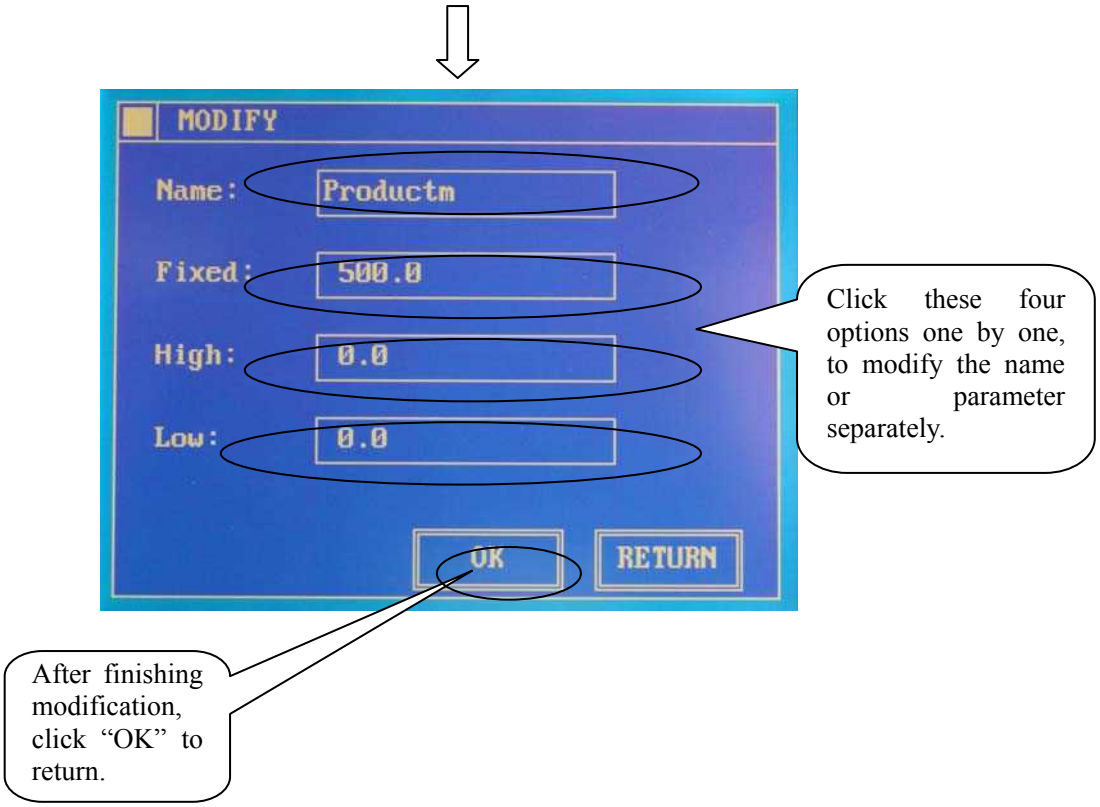
6. Product editing

6.1 Operating steps:

System Menu ⇨ Product Editing

6.2 Interface instruction:





6.3 Function explanation:

The function of product editing is to meet the customer's requirement of testing different products. After being set, the same product can be directly loaded in the next time, that is to say, once and for all.

6.4 Attention:

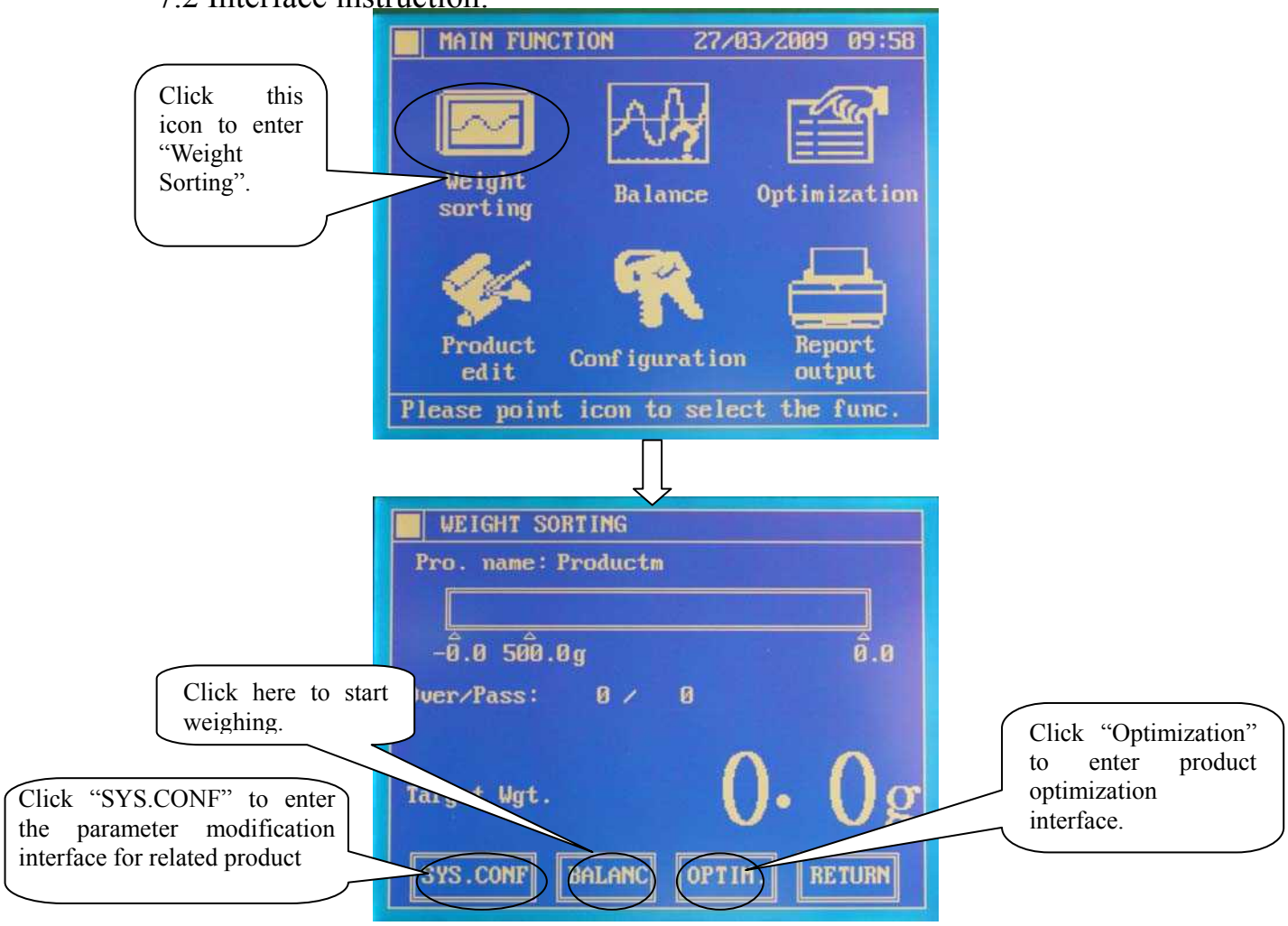
The system provides the default parameters for the new-set products. The customer can modify its parameters according to the requirements of different products, including target weight and appropriate upper limit and lower limit of separation. After confirmation, load the new-set product, and conduct separation parameter setting in the system setting interface and objective optimization in the main menu. After completing the above steps, conduct weight separation.

7. Weight Sorting

7.1 Operating steps:

System Menu ⇨ Weight Sorting

7.2 Interface instruction:



7.3 Function explanation:

Weight sorting is to realize the separation function of the weight testing machine. The interface can display the target weight of the present product, the upper limit and lower limit of separation, the total picked out number and passing number of the same sort product, and the testing weight of passing products at present.

7.4 Attention

In the process of product edit, when the products pass the weighing platform, ensure that the height of products can cover the electronic eye and the spaces between products are bigger than the length of weighing platform. If the communication of transducer fails, cut off the power supply; after the power-off protection for the transducer, restart the machine.

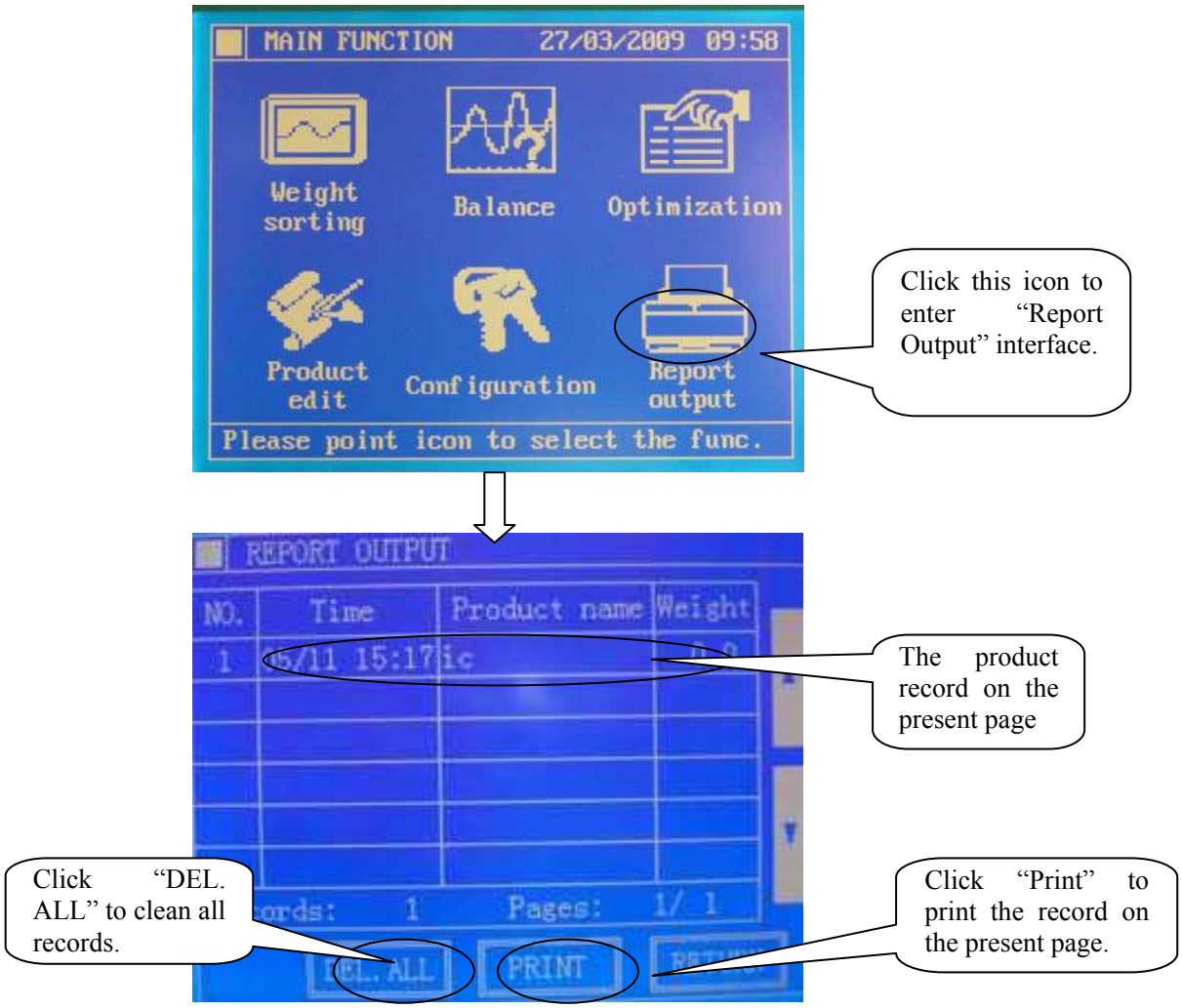
Ⅱ. Other Functions

1. Report output

1.1 Operating steps:

System Menu ⇨ Report Output

1.2. Interface instruction:



1.3 Function explanation:

The report records the name, weight and testing time of the unqualified products in separation. Connect the printer to the machine before printing the present report.

1.4 Attention:

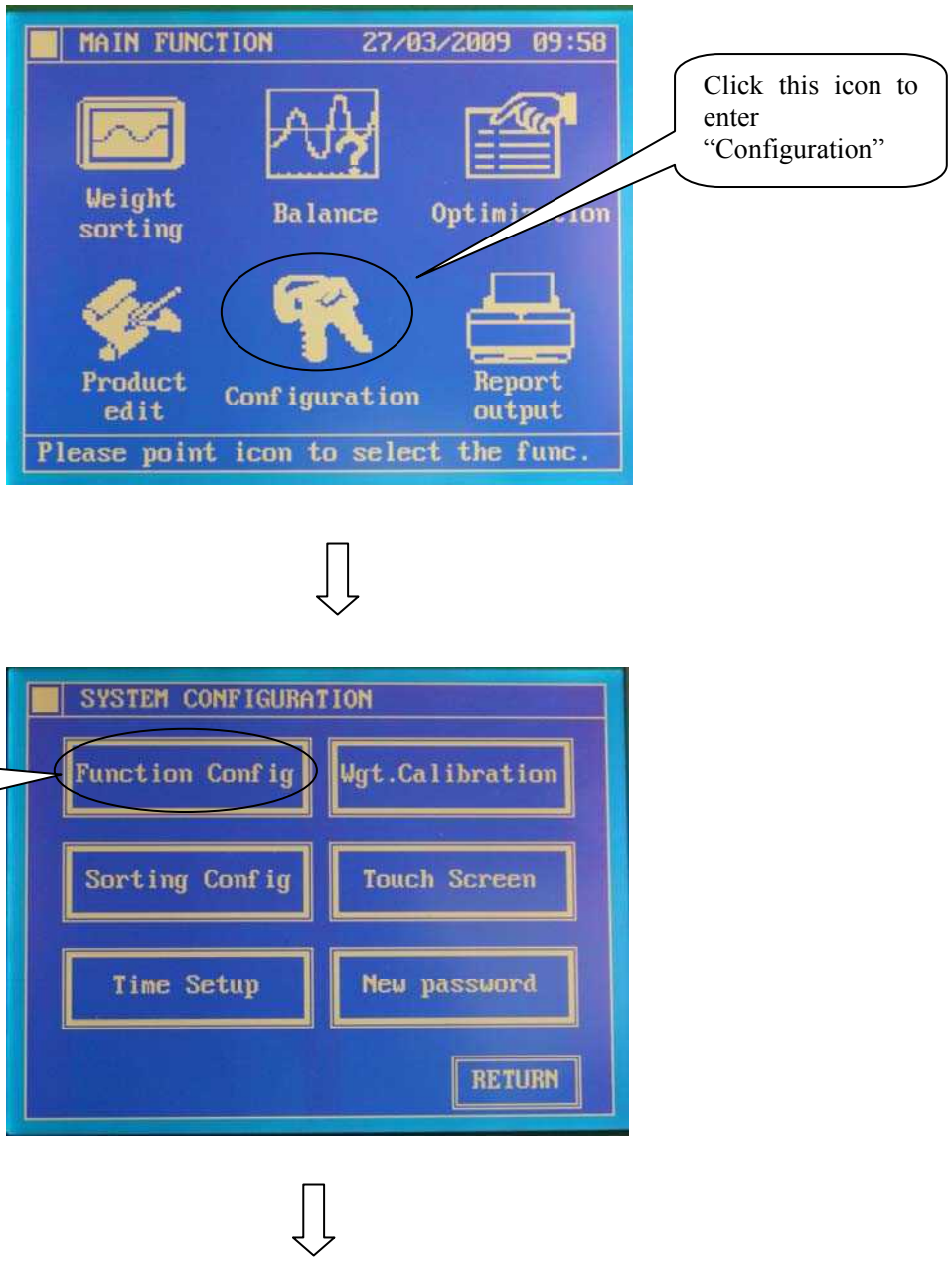
Click "Empty" button to delete all the testing records. Confirm the printer is connected before printing. If the customer needs spray code function, contact with the manufacturer.

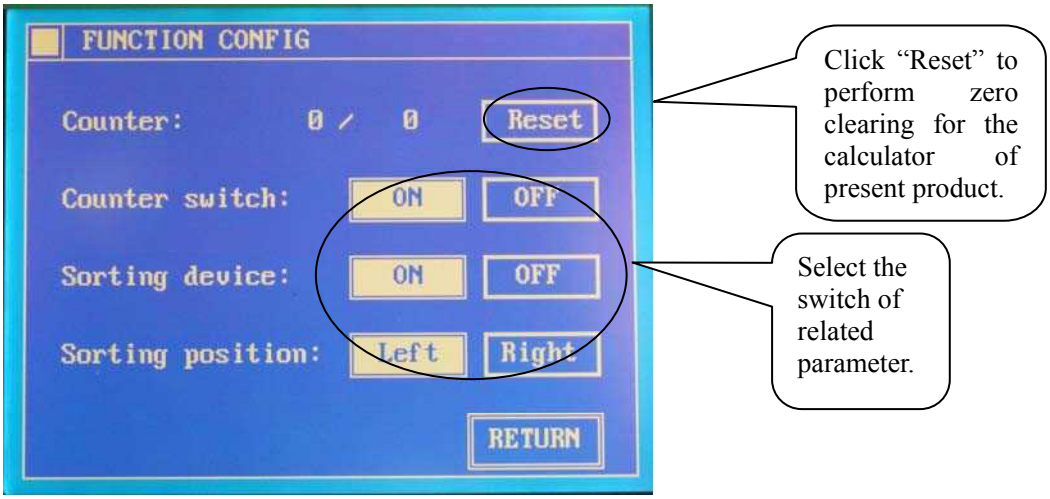
2. Function Config

2.1 Operating steps:

System Menu ⇨ Configuration ⇨ Input Password ⇨ Function Config

2.2. Interface instruction:





2.3 Function explanation:

The customers can perform relevant setting following interface prompt. Reset function can clean the pick out number and passing number of the present product; separating equipment switch is used to control the act of removing mechanism; the separating direction is the direction of overload removing.

2.4 Attention:

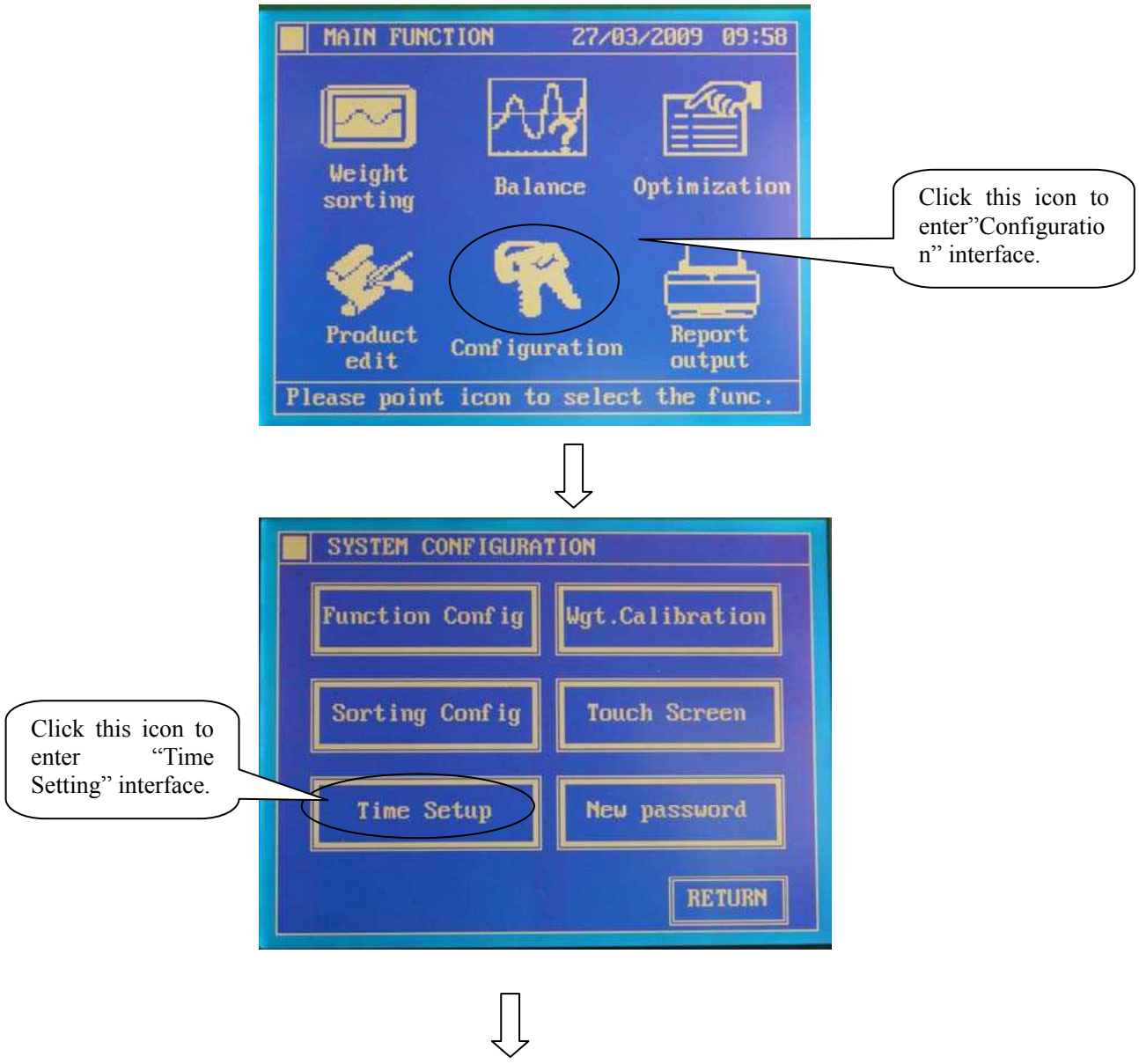
To set, the users only need to click relevant switch.

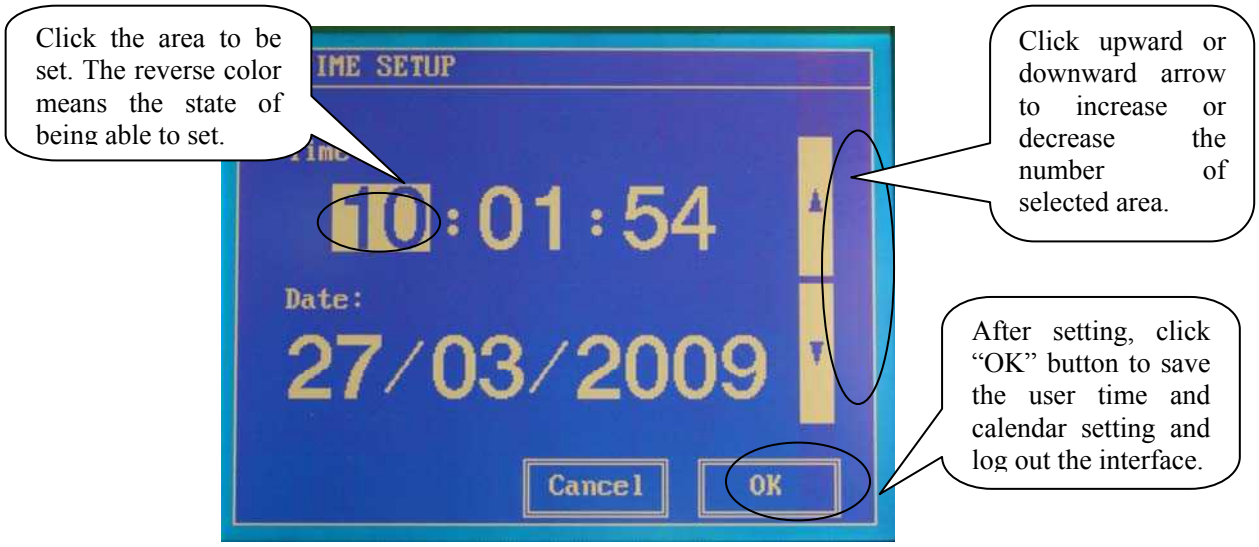
3. Time setup

3.1 Operating steps:

System Menu ⇨ System Setting ⇨ Input Password ⇨ Time Setup

3.2 Interface instruction:





3.3 Function explanation:

This interface provides users with the functions of setting system time and calendar, so the users can set system calendar and system time separately.

3.4 Attention:

The users can choose different areas as year, month, date, hour, minute and second to set them respectively. The area with reverse color is the present setting column. If finding time display incorrect for times, please check and replace the lithium battery on the main control panel.

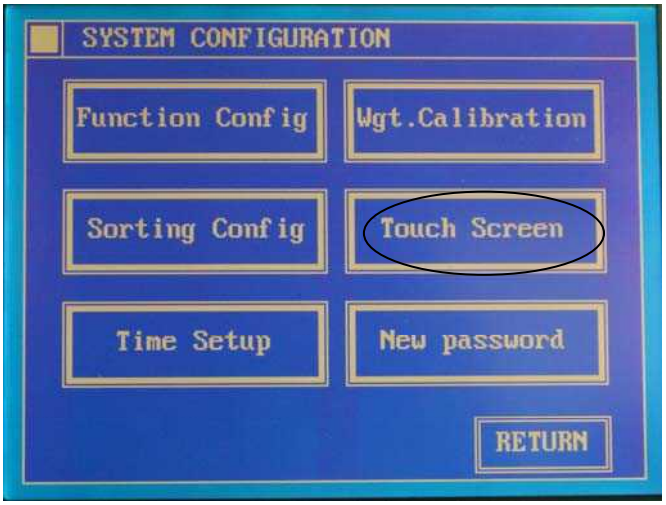
4. Touch screen Calibration

4.1 Operating steps:

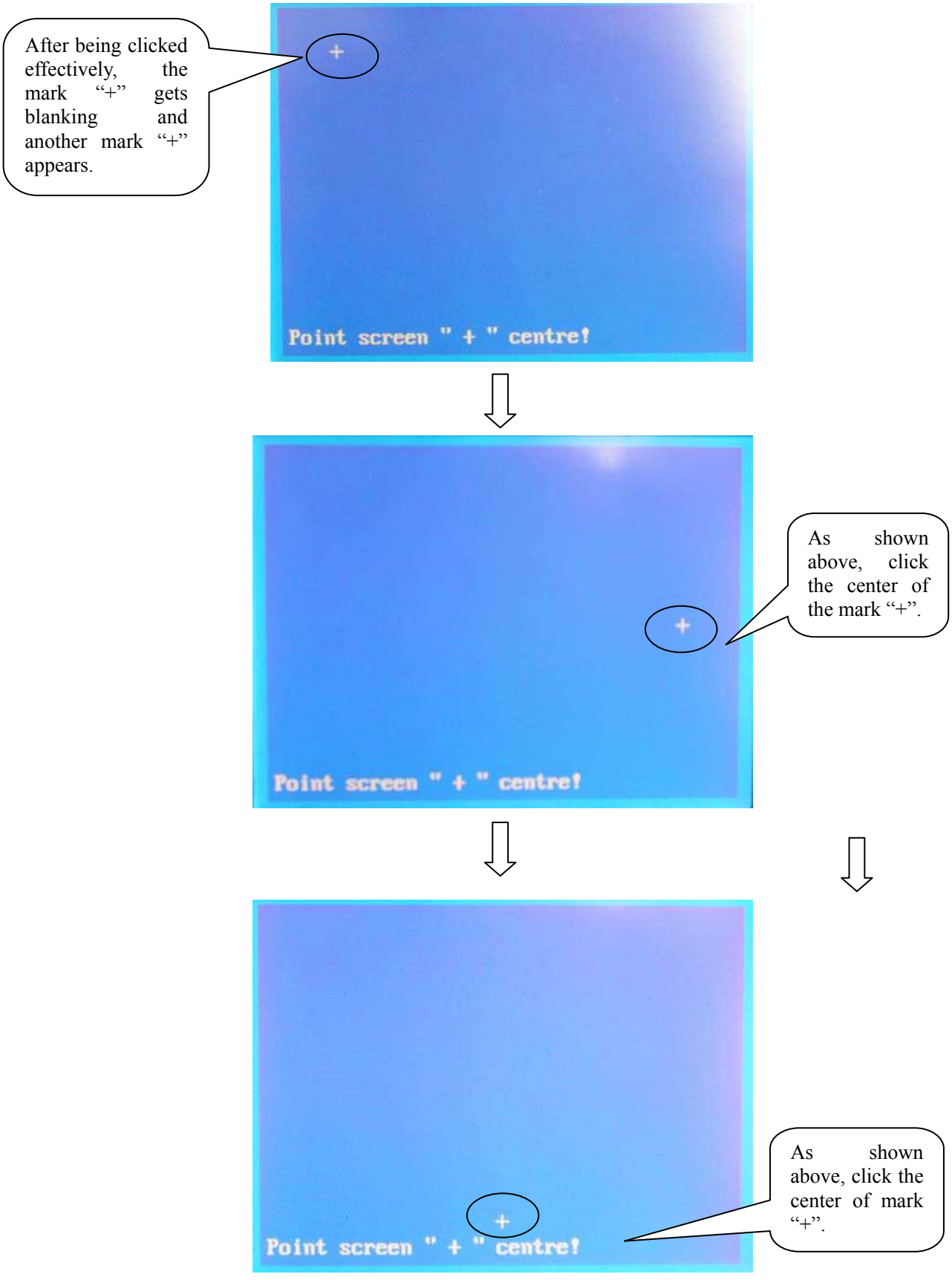
System Menu ⇨ Configurati ⇨ Input Pas ⇨ d Touch Screen Calibration

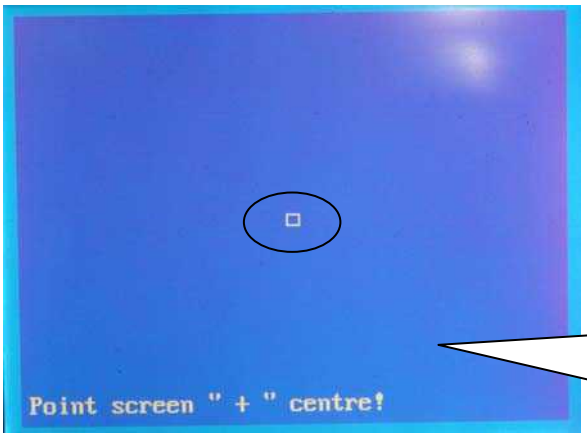
4.2 Interface instruction:

Click this icon to enter “System Setting” interface.



Click this icon to enter “Touch Screen ” interface.


After being clicked effectively, the mark "+" gets blanking and another mark "+" appears.
Point screen " + " centre!
As shown above, click the center of the mark "+".
Point screen " + " centre!
As shown above, click the center of mark "+".
Point screen " + " centre!



After clicking effectively the prompting mark "+" one by one, a square is to appear at the center of the interface. Click the square to enter the next wait interface.

This prompt means the failure of the correction. Repeat the above steps to perform correction again.

Effective clicking:

The interface prompts that "Touch Screen Correction Succeeds", and sonly returns to the setting interface.

4.3 Function explanation:

This interface provides the function of touch screen clicking correction. After long operation or finding the reduction of touch screen clicking accuracy, use this function to perform correction.

4.4 Attention:

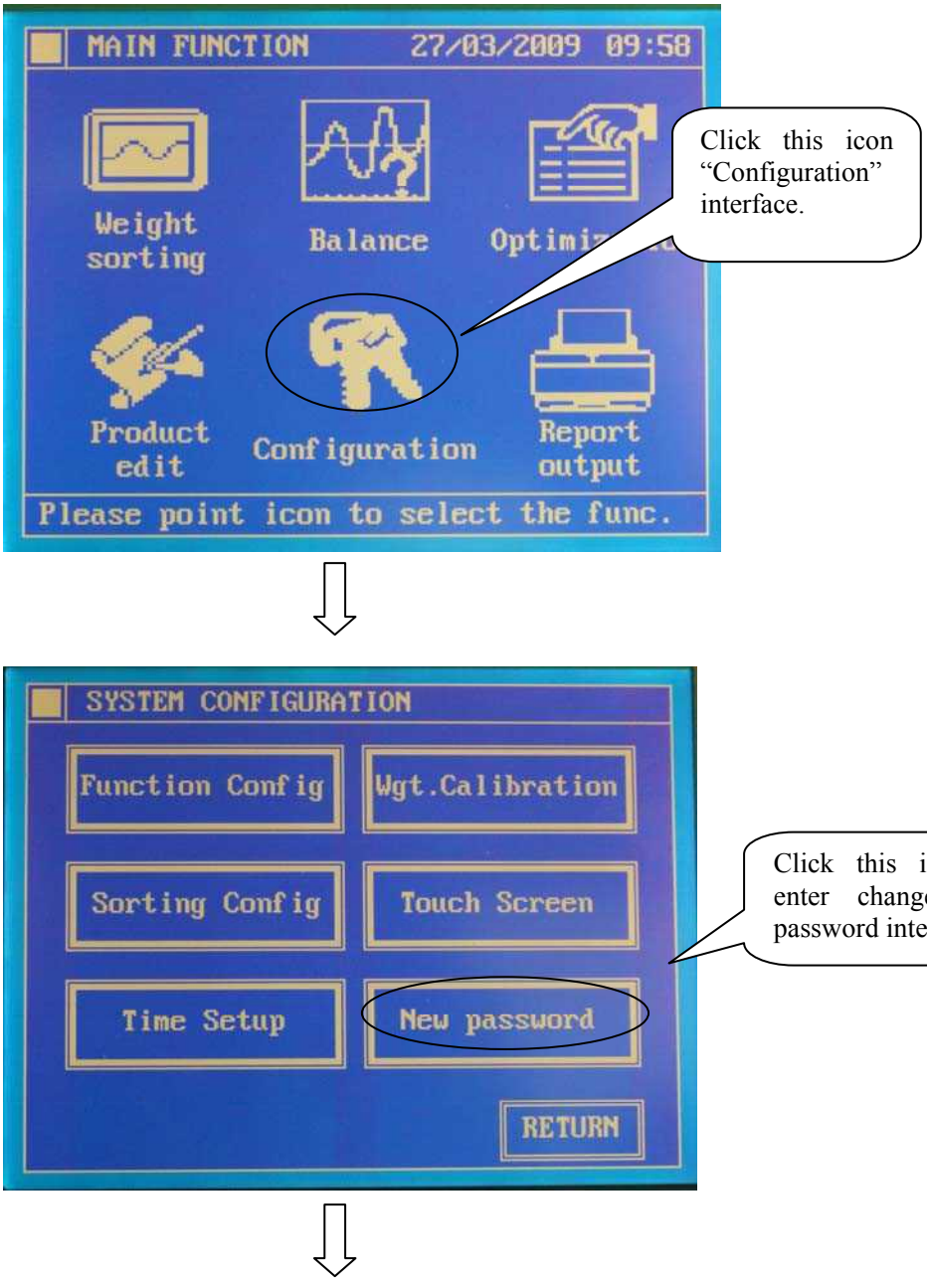
The center of mark "+" is the effective clicking point of correction. Click orderly the center of mark "+" one by one, and improper clicking may cause the failure of the correction. In case of failure, perform correction procedure again. Please use the touch pen, provided by the manufacturer, to do correction so as to avoid scratching the screen.

5. Password changing

5.1 Operation steps:

System Menu ⇨ System Setting ⇨ Input Password ⇨ Password Changing

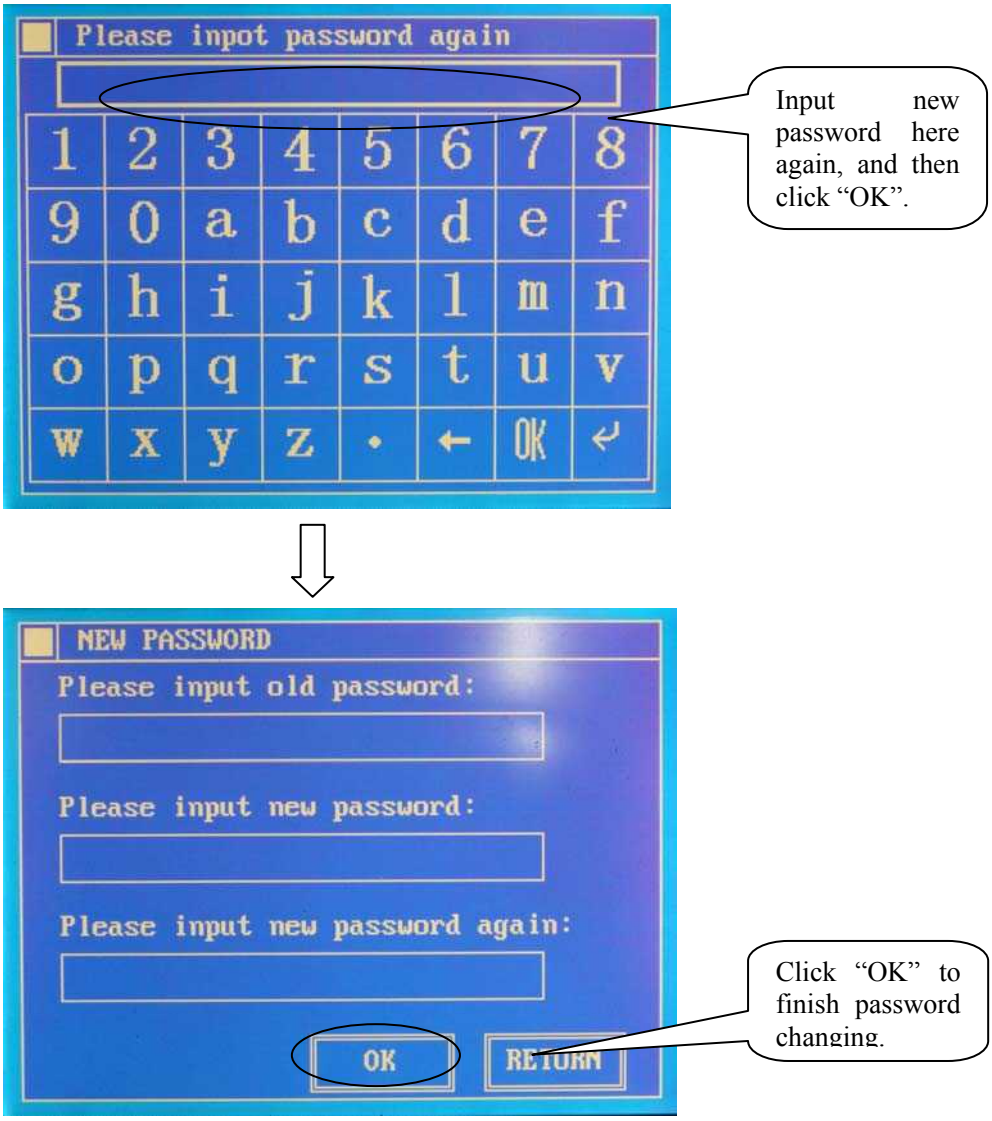
5.2 Interface instruction:



Click here to input original password.

After inputting original password here, click “OK”.

After inputting new password here, click “OK”.



5.3 Function explanation:

This interface provides users with password changing function. After purchasing this product, the customers can set their own password.

5.4 Attention:

The password function is used to protect the functions in "System Setting". The system's factory-set password is '1', and the users can set and change their own password. The permanent effective password is "sbecer"