



# US-X2LP

**Touch-screen Label Printing  
Scale  
(USA MEASUREMENTS)**

## **USER MANUAL**



<b>1</b>	<b>Introduction</b> .....	<b>3</b>
<b>2</b>	<b>Specification</b> .....	<b>4</b>
<b>3</b>	<b>Main Parameters</b> .....	<b>4</b>
<b>4</b>	<b>Assembly</b> .....	<b>5</b>
<b>5</b>	<b>Ports</b> .....	<b>5</b>
<b>6</b>	<b>Getting Started</b> .....	<b>7</b>
<b>7</b>	<b>Charging</b> .....	<b>8</b>
<b>8</b>	<b>Display</b> .....	<b>8</b>
<b>9</b>	<b>Screen keypad</b> .....	<b>10</b>
<b>10</b>	<b>Function buttons</b> .....	<b>12</b>
<b>11</b>	<b>Other interfaces</b> .....	<b>13</b>
<b>12</b>	<b>Subtotal</b> .....	<b>19</b>
<b>13</b>	<b>Add up</b> .....	<b>20</b>
<b>14</b>	<b>Stock function</b> .....	<b>22</b>
<b>15</b>	<b>Show barcode</b> .....	<b>24</b>
<b>16</b>	<b>Using a Barcode Scanner</b> .....	<b>26</b>
<b>17</b>	<b>User defined function</b> .....	<b>26</b>
<b>18</b>	<b>Power on zero</b> .....	<b>27</b>
<b>19</b>	<b>zero</b> .....	<b>28</b>
<b>20</b>	<b>Tare</b> .....	<b>29</b>
<b>21</b>	<b>Choose units</b> .....	<b>31</b>
<b>22</b>	<b>Counting function (Option Hi Lo)</b> .....	<b>32</b>
<b>23</b>	<b>Select and edit goods</b> .....	<b>34</b>
<b>24</b>	<b>Print</b> .....	<b>39</b>
<b>25</b>	<b>Check the record</b> .....	<b>39</b>
<b>26</b>	<b>Parameter setting</b> .....	<b>48</b>
<b>27</b>	<b>Communication</b> .....	<b>59</b>
<b>28</b>	<b>Time setting</b> .....	<b>81</b>
<b>29</b>	<b>Dealer setting</b> .....	<b>82</b>
<b>30</b>	<b>update</b> .....	<b>83</b>

31 close ..... 83  
32 User management (option) ..... 83  
33 Use PC for data management ..... 88  
34 Communication ..... 89  
35 Units conversion ..... 91  
36 Error information ..... 91  
37 Common Usage Scenarios ..... 91

<p><b>WARNING:</b></p> 	<p><b>Please read carefully following instructions for installation and use before starting your work with a new balance.</b></p> <p><b>Failure to use the balance in accordance with the advice in the user manual could mean that the product gives incorrect readings.</b></p>
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## 1 Introduction

- 1.1 Charge the indicator fully prior to first use.  
When the low power sign shows, please use the original adapter to charge. During charging the charging light is red. Once fully charged the light will turn green. Full charge time is about 5-7 hours.
- 1.2 Always use the charging adaptor provided.
- 1.3 Ensure the scale is on a stable and flat surface.
- 1.4 The US-X2LP indicator is not IP rated. Please avoid using it in wet environments.
- 1.5 Rechargeable batteries degrade over time. After two years of regular use, you may find the US-X2LP's battery will hold less charge and will need recharging more frequently. USA Measurements provide replacement rechargeable batteries should you need to replace the battery in your unit.
- 1.6 Turn off the scale if it is not likely to be used for a long period of time. If not in use, charge machine every three months to prolong battery life. Ensure the battery has a full charge before next use.
- 1.7 Your USA Measurements scale is a precision instrument. Please use and handle with care, and place items on its weighing pan carefully.
- 1.8 Do not exceed the maximum capacity of the scale.
- 1.9 Warm up the scale by switching it on 15 minutes before use.

## **2 Specification**

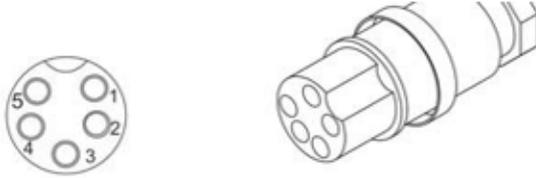
- 2.1 8-inch TFT touch-screen colour display.
- 2.2 Adjustable backlight brightness.
- 2.3 Solid frame design to ensure stable weighing.
- 2.4 Internal memory for storing weighing results and up to 10 custom label designs.
- 2.5 Checkweighing alarm and colour display.
- 2.6 Weighing modes: Weighing, checkweighing, parts counting, check counting, accumulation, averaging, percentage weighing, net total weighing.

## **3 Main Parameters**

- 3.1 Available accuracy: 1/30000
- 3.2 Power adapter: 12VDC 3A adapter.
- 3.3 Working current: 300mA
- 3.4 Display: 8-inch TFT
- 3.5 Sensor sensitivity range: 1-3mV/V
- 3.6 Power: DC6V/4-10.0AH (low power sign appears when voltage lower than 5.6V)
- 3.7 Work temperature: 0-40°C, lower than 90% RH.
- 3.8 Storage temperature: -25~55°C

## 4 Assembly

### 4.1 Load cell connection.



Pin	Definition	Note
1	E+	
2	E-	
3	S+	
4	S-	
5	Ground	Connect to the shielded wire (Option)

4.2 To assemble your BTT, feed the load cell cable through the pillar, then insert the pillar into the base, and fasten the fixed screw. Position the cable through the holder and insert the holder into the bracket of the indicator. Fix the load cell connector. Adjust the holder to the correct position and then fasten the plastic screw on the indicator.

## 5 Ports

You can find the scale's main ports on the back of the US-X2LP indicator:



Serial port 1# in the right side of the back of the indicator. Serial port 2#

is on the bottom of the indicator.

- 5.1 If you need to reset the US-X2LP, press and hold the small button above the charging light on the back left of the indicator for three seconds.
- 5.2 When the charging light is red, the indicator is charging. When the charging light is green, charging has finished.
- 5.3 USB1 can connect to a USB flash drive and barcode scanner.
- 5.4 USB2 is an optional extra.
- 5.5 RS-232 1# can connect to PC.
- 5.6 RS-232 2# can connect to an external printer.

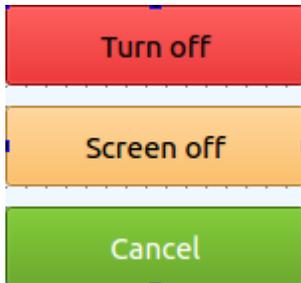
## 6 Getting Started

### 6.1 Power on

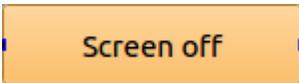
In power off mode, press the **On/Off** button on the back of the indicator. When the display shows a zero reading, you're ready to start weighing.

### 6.2 Power off

With the scale switched on, press the **On/Off** button. The screen will display the shutdown dialogue:



Choose  to turn off,

Choose  to close the screen but not power off. Press **On/Off** again; the screen will show again.

Choose  to return to working mode.

## 7 Charging

Connect the adapter provided to the US-X2LP indicator and connect to a suitable power source. When charging begins, the charging light will glow red. This light will turn green when charging is complete (a full charge will take up to 7 hours from flat).

**Warning:** Avoid over-charging as this could cause damage to the rechargeable battery. Likewise, please avoid completely depleting the battery's power. When the low battery indicator appears, charge as soon as possible. If the scale is not used for a long period of time, recharge every 40 days.

After charging, remove the adapter.

Using an incorrect adapter may cause damage to the rechargeable battery. Only use the adapter supplied with the product, or an official USA Measurements replacement adapter.

## 8 Display

### 8.1 Weighing window

In Weighing mode, the screen shows net weight, tare weight and gross weight.

Weight	0.188 Stable kg	Tare	0.000
		Gross	0.188

In Counting mode, the screen shows net weight, unit weight and quantity.



8.1.1 Each window's content is indicated by the title shown in the top left corner. For example, weight, Hi., Lo., unit weight, quantity.

8.1.2 **->0<-** means weight is zero.

8.1.3 **Tare** shows to denote tare weight.

8.1.4 **Stable** - means the weight value has stabilised and a reading can be taken.

## 8.2 Status bar

Admin Max=6 kg d=0.002 kg   08-10-2021 09:45:20

8.2.1 **Admin** User login

8.2.2 **Max=15 kg d=0.0005 kg** Capacity and Division

8.2.3  Barcode scanner

8.2.4  External printer connection

8.2.5  USB flash drive

8.2.6  WIFI

8.2.7  Battery charge status

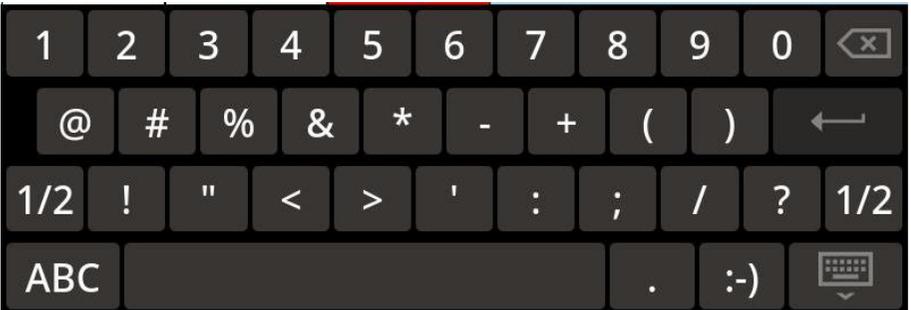
8.2.8 **2021-06-17 09:37:13** Date and time

## 9 Screen keypad

### 9.1 English mode



### 9.2 Symbol and number mode



### 9.3 The second page of symbol and number mode



Close the keypad.



Backspace



Enter

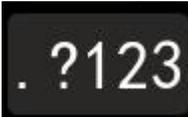


Shift, Caps Lock



Space,

English or Chinese input.



Symbol/number keypad switch



Switch to English or Chinese input mode



Symbol mode switch



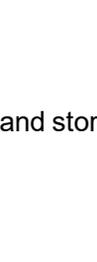
Toggle between English or Chinese keypad.

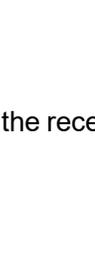
## 10 Function buttons

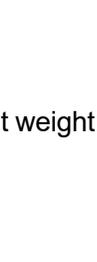


10.1  Print and store the recent weight and goods data.

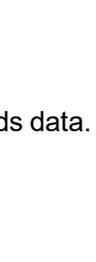
10.2  Access the menu. Includes settings and Help information.

10.3  Check the stored print record.

10.4  Toggle between weighing units.

10.5  Return the displayed weight value back to zero.

If pressing this key does not return the scale to zero, please check if the weight value exceeds the allowed zero range. Users can set the manual zero range in Menu > User Settings > Functions.

10.6  Input tare weight. After pressing this key, the

input box will pop up. Input the tare weight manually. The scale will use the inputted tare weight.



- 10.7 Add the tare weight to the scale and press this key to tare off the value from the display. Please note, users cannot use tare when the weight value is negative.

## 11 Other interfaces

### 11.1 Checkweighing (Hi-Lo limit) mode

#### 11.1.1 Weighing mode

Lo 1.000 kg	OK	Hi 3.000 kg
3	0	0
0.560	0.000	0.000

The top row is the Hi-Lo status and Hi-Lo value.

The second row is stored or printed content; including the number of times a weight reading has been lower than the low limit, within limits (OK) and higher than the high limit.

The third row displays the same as the second row but showing as the weight value.

#### 11.1.2 Check Counting mode

<b>Lo</b> <b>OPCS</b>	<b>OK</b>	<b>Hi</b> <b>OPCS</b>
<b>0</b> <b>OPCS</b>	<b>0</b> <b>OPCS</b>	<b>0</b> <b>OPCS</b>

This display is the same as weighing mode, but Hi-Lo values show is pcs. The total count quantity - third row - displays in PCS.

### 11.1.3 Status display

When the weight or quantity value is less than 0, the scale as default shows no Hi-Lo output.

Additionally, the Lo-qualified-Hi box colours are light yellow, light green and light red respectively.

If users need an output of <0 or =0 value, this can be set in the user parameter setting.

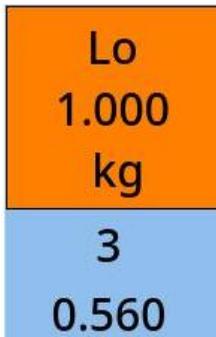
When the weight or quantity is less than the Lo value, the Lo box is an orange/yellow colour.



When the weight or quantity value is more than the Lo value, but less than Hi VALUE, the OK box glows green.

When the weight or quantity value is more than the Hi value, the Hi box is red.

When the colour of the Hi-Lo boxes change, press the **Print** key, and the bottom of the box will show the count. The weight value will show below X times.



#### 11.1.4 Setting the Hi-Lo value

##### 11.1.4.1 Setting Hi-Lo in goods data

When adding or editing the goods data, you can set the Hi-Lo value in the data box.

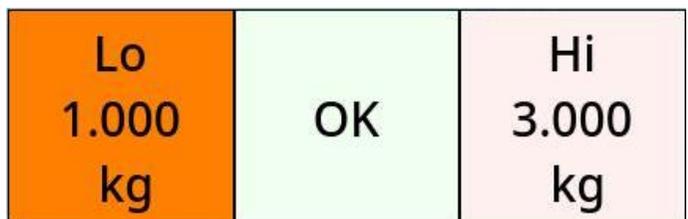
Hi  kg Lo  kg

When selecting the product, the Hi-Lo value will set to this goods' Hi-Lo information.

Hi  kg Lo  kg

##### 11.1.4.2 Modifying the Hi-Lo value manually

To change Hi-Lo setting, press the **Hi-Lo** box. The Hi-Lo setting box will pop up.



Hi	3.000			kg
1	2	3	<-	
4	5	6		
7	8	9	OK	
.	0	Clear	Close	

Input the Hi value, press **Confirm** key, the input the Lo value.

Lo	1.000			kg
----	-------	--	--	----

Press **Confirm** again to go back to weighing mode. The Hi-Lo values have now changed to the inputted values.

## 11.2 Percentage weighing (Target (%)) mode

Percentage weighing mode is similar to Checkweighing (Hi/Lo limit) mode. The example in weighing mode is as follows:

18%

100%:1.000 kgHi3.000 kg

Information displayed includes goods name, Hi/Lo limit value, the status against the Hi/Lo limit, the number of weigh-ins against the Hi/Lo limit and the total weight in Hi/Lo limit.

Percentage weighing mode sets the Lo limit value as the target value. For example, when the weight value is half of the Lo limit, the percent state line will show 50%. After adding your item to the scale, press **Print**; the number of weights checked will show under Lo, and the total weight under the Lo limit will show under the number of times.

### 11.3 Sorting mode

#### 11.3.1 Using Sorting mode

Sorting mode is used for goods classification.

2.0000	3.0000	4.0000	5.0000	6.0000
A	B	C	D	E
1.0000	2.0000	3.0000	4.0000	5.0000
kg	kg	kg	kg	kg
0	0	0	0	0

From top to bottom, the information is sorting value, sorting range, the sorting count, the total sorting weight.

For example, when the weight value is between 1.0kg and 2.0kg,



the relevant window will show a green colour.

If the weight is lower than Lo or higher than Hi, the sorting box will not show this green colour. If A-E has one box that shows green, the printed and stored value will match the qualified values in A-E. I.e, anything that has not fallen within the ranges will not show in the subtotal.

Press **Print** and the total number of weights relevant to this sorting value will show under the box. The total number of weights overall will show underneath this value.

### 11.3.2 Setting the sorting value

#### 11.3.2.1 Set the required Hi-Lo values in the goods data fields.

When adding or editing the goods data fields, you can set the sorting value in the data box.

Hi	<input type="text" value="0.000"/>	kg	Lo	<input type="text" value="0.000"/>	kg		
A-B	<input type="text" value="0.000"/>	B-C	<input type="text" value="0.000"/>	C-D	<input type="text" value="0.000"/>	D-E	<input type="text" value="0.000"/>

A-B means the boundary value of A and B class. It is the Hi of A and Low of B.

Goods' Lo is the same as A's Lo. Goods' Hi is the same as E's Hi.

When selecting a product, the sorting value will be set to this goods' sorting value.

#### 11.3.2.2 Modifying the sorting value manually

If you do not wish to select a product/goods, or you need to change sorting setting, press the **sorting box**, and the sorting setting box will pop up.

2.0000 A 1.0000 kg	3.0000 B 2.0000 kg	4.0000 C 3.0000 kg	5.0000 D 4.0000 kg	6.0000 E 5.0000 kg
-----------------------------	-----------------------------	-----------------------------	-----------------------------	-----------------------------

Lo  A  B  C   
D  E  kg

The value of box between Lo and A is the Lo of A.

The value of box between A and B is the boundary of A and B. It is the Hi of A and the Lo of B.



Press  to go back to weighing mode, now the sorting value will change to input one.

## 12 Subtotal

Subtotal function: Add up the data quantity, total weight and total quantity of printed and stored values.

You can activate the Subtotal function in Dealer Settings > Functions. The subtotal value and the option to clear the subtotal value will show in the left bottom of the display.

**Subtotal:1 Total:weight:0.062 kg**

A blue rectangular button with the text "M+ print" in white.

Press  to print out the total weight and quantity information since these values were last cleared.

A blue rectangular button with the text "MC" in white.

Press this button to clear the subtotal.

Edit subtotal print format needs use total add up quantity and total add up weight.

### 13 Add up.

#### 13.1 How Add up works

Add up values cannot be printed. However, Add up values can be exported from the Report screen, or printed from there.

When the Add up function is opened in the Dealer settings, Functions , the lower left of the screen will show the relevant keys.

A blue rectangular button with the text "M+" in white.A blue rectangular button with the text "MR" in white.A blue rectangular button with the text "Print" in white.A blue rectangular button with the text "MC" in white.

#### 13.2 Keys

A blue rectangular button with the text "M+" in white.

Press this key to add up current weight or quantity.

A blue rectangular button with the text "MR" in white.

Press this key to recall every all weights, quantities and totalised weights and quantities.

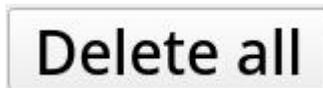
### 13.2.1 Report

									
	Goods name	Spec	Net weight	Tare	Gross				
1	Screw		0.062	0.000	0.062				
2	Screw		0.062	0.000	0.062				
3	Screw		0.062	0.000	0.062				
4	Screw		0.062	0.000	0.062				
5	Total		0.248	0.000	0.248				

To delete data, select the item in the list to be deleted, and press



to delete its data.



Users also can press to delete all data.

Pressing  will print all values, and delete the data immediately after printing.



Press  to print totalised value, and delete the data immediately after printing.



This key can delete all add up value. After

deleting, the add up value will return to zero.

## 14 Stock function

### 14.1 How the stock function works

The stock function can store the weight and quantity of stock for every item. It can perform stock in and stock out of the warehouse, and simplify stock management.

When the stock function is opened in the dealer settings, the lower left corner will show the stock value and relevant keys.

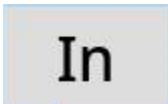


The left is the stock value of the current item. The three keys to the right are stock in, stock out and take stock.

### 14.2 Using the stock function

#### 14.2.1 Stock in

When weighing is for stock in, press

A grey rectangular button with the text 'In' in black.

This key will

turn green

A green rectangular button with the text 'In' in white.

Add the item to the scale and press

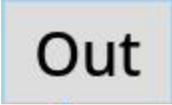
A red rectangular button with the text 'Print' in white.

The weight

or quantity will add to the stock value of the current item. At the same time, the stock value will show the latest stock value of the current item on the left.



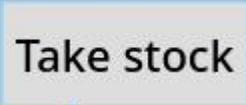
### 14.2.2 Stock out

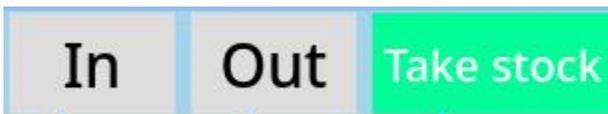
For recording stock out, press  This key will turn green.



Add the item to the scale and press  The stock value of the item will reduce the current weight value or quantity. Additionally, the latest stock value of the current item will show on the left.

### 14.2.3 Stock management

To take stock, press  This key will turn green.



Add the item to the scale and press  The stock value will set to the current weight value or quantity. The stock value on the left will show the latest stock value.

### 14.3 Check stock

When opening the stock management function, the stock value of every item will show in the choose goods interface. If the user has selected counting mode, the stock quantity will show in here

also.

	Number	Name	Spec	Remark	UW	Stock
1	123456	Apple			0.000	0.000
2	2222	ပန်းသီး			0.000	0.000
3	1233	Screw	4x8		0.000	0.062

## 15 Show barcode

Users can set a barcode or QR code to display on the screen during stock take. The QR code or barcode will store weight information each time an item is weighed. The QR code or barcode can then be scanned by a barcode scanner.

In the communication setting, users can choose how and where the barcode or QR code is shown on the screen.

On the Print Setting Menu screen you will see, near the bottom, 'Barcode' a drop down box, 'Right' and a drop down box, 'Format' and a drop down box. Selecting from the first drop down box will select the format to appear on the left hand side of the screen, changing the middle one will select the format for the Right Hand Side of the screen.

A blue rectangular button with the word "Close" written in white, sans-serif font.

Selecting  means no barcode or QR code will display on the screen.

The display format will change upon a change in weight.

A light gray rectangular button with the text "Left2/Right1" written in black, sans-serif font.

Selecting  means the QR code will show on the lower left of the screen, and the barcode will display under the goods. This function can show barcode and QR code at the same time.

Once QR code/barcode display preferences have been set, users need to set the corresponding format and use HCTPubPrintEditor to edit and download the format to the corresponding serial number.

Then, when an item is weighed, the display will show the corresponding QR code or barcode.



Show QR code and barcode at the same time, the screen will show as follows:



When the code shows on the left, the Hi-Lo status will not show.

## Open HiLo

At this time, the code in the left will change colour following the Hi-Lo status. For example, yellow means weight is below the Lo setting.

## 16 Using a Barcode Scanner

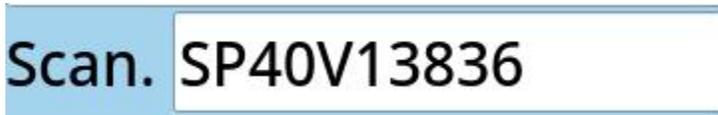
### 16.1 Scan the goods code.

The Scan Goods function is opened in the Dealer Settings > Functions > Scanning.

Once selected, connect the barcode scanner, and scan the goods' serial number code, which is already stored in the scale. The scale will call out the corresponding item.

### 16.2 Scan the code and show

Users can open the Scan Goods and Input function in Dealer settings. The goods bar will show the scanned input:



## 17 User defined function

Users can open multiple manual input boxes in Dealer Settings.

Users can define the name and type of the input box. For example:

A screenshot of a software interface showing three user-defined input boxes. Each box has a label on the left and a text input field on the right. The labels are 'Client', 'Order', and 'Group', all in a bold, black font. The text input fields contain the values 'Huawei', 'li', and '03' respectively. Each input field has a small blue dropdown arrow on its right side. The background of the interface is a light blue color.

In this example, customer, order number and batch number are all the user defined name.

The input box is a free text box. Users can also select the drop-down to choose the type of value.

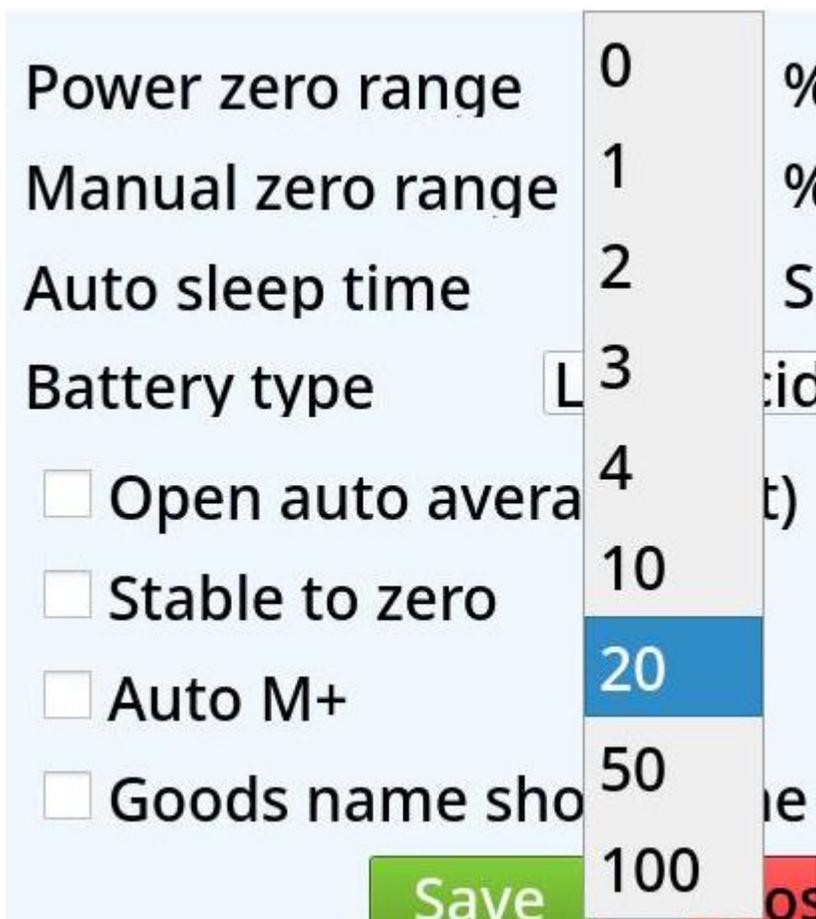
Group: is also the user defined name.

The input box all are predefined boxes, user cannot input manually in order to avoid inputting invalid data.

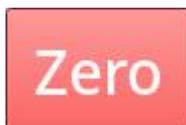
## 18 Power on zero

Under the default settings, scale will zero automatically. The default zero range is  $\pm 20\%$  of last calibration zero. If the range exceeded this, the scale will not zero and use the last calibration zero value as current zero value. If the user wants to show the last weight value when power is on, please set the power on zero range to 0.

Power zero range  %



## 19 zero



When the pan is empty, press  key to zero the scale.

If the scale is broken or weight is heavy than allowed zero range, this key is invalid. If the display has rest weight value when the pan is empty, please use this function. Zero range= Max. Cap. X4%.

Zero range can be set in user settings.

Manual zero range  %

And zero function is limited to.



**Stable to zero**

setting which is in

parameter setting.

If user cannot find zero manually, please check the manual zero range in settings. And if opened the zero tare after scale weighing stable function, please check if the weighing is stable or not.

## 20 Tare

20.1 Tare weight is known.



Press  key, Tare weight input window will pop-up, please input the tare weight. Then press [confirm], the scale will reduce that tare weight value automatically.

Tare

kg

1

2

3

<-

4

5

6

7

8

9

OK

.

0

Clear

Close

## 20.2 Tare weight is unknown.



Put the container on the pan, press  key, after stable, the weight window will show net weight and tare symbol.

When weight value is negative, user cannot tare.

And tare function is limited to.



 setting which is in parameter setting.

If user cannot find zero manually, please check the manual zero range in settings. And if opened the zero tare after scale weighing stable function, please check if the weighing is stable or not.

## 21 Choose units



If the units are not the suitable one, press  key to choose the right units. The units which can be used are set in the user settings.

## 22 Counting function (Option Hi Lo)

22.1 Users need to open counting function is Dealer setting, Function.

Weigh Mode = Count

Function = HiLo

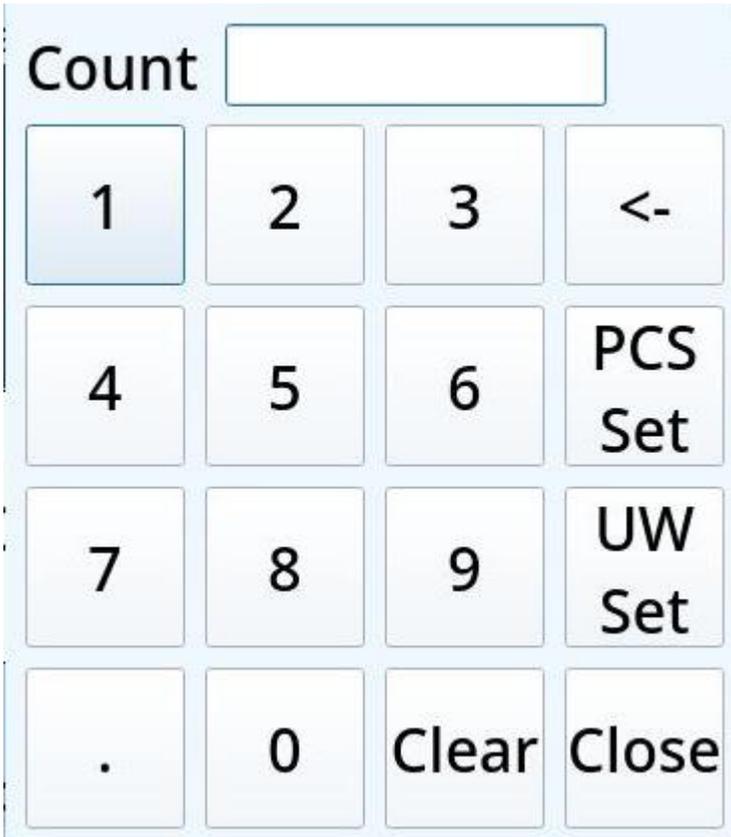
The weighing interface will become counting mode after counting functions been opened.



22.2 Unit weight of goods is known

Set the unit weight in item edit step, Choose the unit weight by select goods.

22.3 To manually set the U.W press the U.W in the top right corner and the function window will pop-up.



### 22.3.1 Unit weight is known



Input the known weight of weights, press , the display will show the U.W in the top right corner display.

### 22.3.2 Unit weight is unknown

Put the sample weights on the pan, Press the U.W in the top right corner to open the count keypad use the number keys



to input the sample qty, press  key. After the weight value is stable, the quantity window will show the counts of weight.

## 23 Select and edit goods

### 23.1 Show and select goods screen button



#### 23.1.1 Common goods select mode



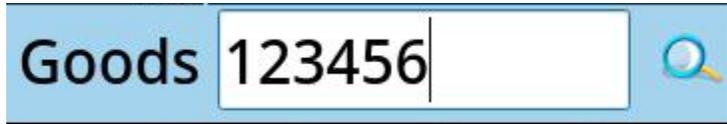
Press  next to the words GOODS, this will open the Goods selection and editing screen, select goods line by pressing the goods

Add		Edit	Export	Delete	Delete all	Search	OK	Close
Number	Name	Spec	Remark	UW				
1 123456	Apple			0.000				
2 2222	ပန်းသီး			0.000				
3 1233	Screw	4x8		0.000				

name , then press  key in top right corner, this will take you back to weighing interface, the item will show in the item bar.

### 23.1.2 Quickly call out goods mode

Input the item serial number in weighing box directly, as follow:



The image shows a blue header bar with the word 'Goods' on the left. To its right is a white input field containing the text '123456'. Further right is a magnifying glass icon, indicating a search function.

Then press the enter key



, the item name will show in the item bar.



The image shows the same blue header bar with 'Goods' on the left. The white input field now contains the text 'Apple'. The magnifying glass icon is still present on the right.

23.1.3 In the goods selection and editing interface you can edit items directly.

Add	Edit	Export	Delete	Delete all		Search	OK	Close
Number	Name	Spec	Remark	UW				
1	123456	Apple				0.000		
2	2222	ပဲခူးသီး				0.000		
3	1233	Screw	4x8			0.000		

### 23.1.4 Add

New goods can also be added in the goods selection and editing screen press New

Different data can be added to new or edited goods depending or which function is selected

The add new item window will pop up after press.

Add new Goods			
Num.	<input type="text"/>	Name	<input type="text"/>
Spec	<input type="text"/>	Remark	<input type="text"/>
UW	<input type="text"/> g	Tare	<input type="text"/> kg
Hi	<input type="text"/> PCS	Lo	<input type="text"/> PCS
Stock	<input type="text"/> kg	PCS stock	<input type="text"/> PCS
A-B	<input type="text"/>	B-C	<input type="text"/>
		C-D	<input type="text"/>
			D-E <input type="text"/>
<input type="button" value="OK"/>		<input type="button" value="Cancel"/>	

Number is the ID used to manage goods.

If the scan goods function is to be used the Num. [number] is the number should be the barcode item number.

The Name will show in the item window of weighing interface.

Unit weight is the known unit weight in counting mode.

If the unit weight is unknown, it can stay blank or be set to 0.

Tare weight is the weight of the items packaging / container

If item does not have a Tare weight it can be left blank or set to 0.

Hi limit is the maximum allowed limit of goods when Hi-Lo function is opened. In counting mode, the unit is PCS

Weight stock: Total weight of stock added through the stock management function.

Quantity stock is the total stock quantity added through the stock management function.

Weight stock and quantity stock will be shown when user opens the stock manage function in Dealer setting.

A-B,B-C,C-D,D-E are select value, more information shown in 11.3.2.



After input all, press  will show new added goods in goods interface.

### 23.1.5 edit



Highlight the goods to be edited, press

Item edit interface as follows:

Edit							
Num.	<input type="text" value="1233"/>	Name	<input type="text" value="Screw"/>				
Spec	<input type="text" value="4x8"/>	Remark	<input type="text"/>				
UW	<input type="text" value="0.000"/>	g	Tare	<input type="text" value="0.000"/>	kg		
Hi	<input type="text" value="0.000"/>	PCS	Lo	<input type="text" value="0.000"/>	PCS		
Stock	<input type="text" value="0.062"/>	kg	PCS stock	<input type="text" value="0"/>	PCS		
A-B	<input type="text" value="0.000"/>	B-C	<input type="text" value="0.000"/>	C-D	<input type="text" value="0.000"/>	D-E	<input type="text" value="0.000"/>
				<input type="button" value="OK"/>	<input type="button" value="Cancel"/>		

Number cannot be edited, other functions are the same as add new item.

### 23.1.6 Delete

Select the goods which need to be Deleted, and press delete.

### 23.1.7 Export

Insert the USB flash drive in the back of the indicator and press export.



Select USB disk.

Press OK.

USB stick can now be safely removed

### 23.1.8 Search [all search bars]

Input the keyword, such as number, goods name, specification, remark, then press search.

For example, input screw,

The press  , the item bar will show the content which include screw.

	Number	Name	Spec	Remark
1	1233	Screw	4x8	

### 23.1.9 OK

Highlight item, press  , and return to main weighing screen.

## 24 Print



press  . Prints current data and store this data into the scale.

Note: print function is limited to print settings which are in communication settings. If the condition is suitable, the scale will inform store success.

## 25 Check the record



Press  to open print records and stats: see follow picture:

Report		Day	Month	statistics	Day	Month	Close		
08-10-2021		-	08-10-2021	Reprint	Export	Delete	Delete all	<input type="text"/>	
	Date	Time	Id	Goods	Weight kg	UW	Number		
1	08-10-20...	09:46:10	19	Screw	0.186	0.000		3.0	
2	08-10-20...	09:46:11	20	Screw	0.186	0.000		3.0	
3	08-10-20...	09:46:12	21	Screw	0.186	0.000		3.0	
4	08-10-20...	09:56:30	22	Screw	0.062	0.000		0.0	
5	08-10-20...	10:01:11	22	Screw	0.062	0.000		0.0	
6	08-10-20...	10:41:09	22	Apple	0.000	0.000		20.	
7	08-10-20...	10:41:13	23	Apple	0.064	0.000		20.	
8	08-10-20...	10:41:14	24	Apple	0.062	0.000		20.	
9	08-10-20...	11:01:57	22	Screw	0.000	0.000		0.0	
10	08-10-20...	11:01:57	23	Screw	0.000	0.000		0.0	

Choose standard report, daily report, monthly report, and standard statistics, daily statistics, monthly statistics

- Report mode shows original print record.
- Statistics mode, shows the printed records are counted according to certain rules, not the original printed records.

### 25.1 Standard report

Report		Day	Month	Statistics	Day	Month	Close		
08-10-2021		-	08-10-2021	Reprint	Export	Delete	Delete all	<input type="text"/>	

In standard report mode, users can choose date range, press

**08-10-2021**

will pop up the date selection window.



After selection, press OK to confirm.

After the start date and end date are selected, press  to refresh the data.

## 25.2 Daily report

Daily reports are different with standard reports, it just shows one day's data, the interface as follows:

Report	Day	Month	statistics	Day	Month	Close	
08-10-2021	Today	Reprint	Export	Delete	Delete all		
Date	Time	Id	Goods	Weight kg	UW	Number	
1	08-10-20...	09:46:10	19	Screw	0.186	0.000	3.0
2	08-10-20...	09:46:11	20	Screw	0.186	0.000	3.0
3	08-10-20...	09:46:12	21	Screw	0.186	0.000	3.0

In daily report interface, data bar just shows one day's data which

has been chosen. Press  to go back to

today's date.

After choosing the date, user needs to press  to refresh the data.

### 25.3 Monthly report

Monthly reports are different to standard reports, it just shows one month's data, the interface as follows:

Report	Day	Month	statistics		Day	Month	Close	
2021-10	<	his Mo	>	Reprint	Export	Delete	Delete all	
	Date	Time	Id	Goods	Weight kg	UW	Number	
1	08-10-20...	09:46:10	19	Screw	0.186	0.000		3.0
2	08-10-20...	09:46:11	20	Screw	0.186	0.000		3.0
3	08-10-20...	09:46:12	21	Screw	0.186	0.000		3.0

User can use   choose the month, press  can back to current month quickly.

After set the month, the user also need press  to refresh the data.

## 25.4 standard statistics

Standard statistics are the same as standard report, and you can choose the start date and end date.

Report	Day	Month	Statistics	Day
08-10-2021	-	08-10-2021	Export	
<input checked="" type="checkbox"/> Goods	<input checked="" type="checkbox"/> HiLo	<input type="checkbox"/> Client	<input type="checkbox"/> Order	<input type="checkbox"/> Group <input type="checkbox"/> In/Out
Goods	Weight	Number	result	Count
1 Apple	0.128	0	NG	3
2 Screw	0.000	0	NG	2
3 Screw	0.560	0	LO	3
4 Screw	0.124	0	HI	2
T Total	0.812	0		10

Statistics interface dose not have a delete function,

Statistics can be viewed by item, type in the item number in the

search bar and press  to refresh.

<input checked="" type="checkbox"/> Goods	<input type="checkbox"/> HiLo	<input type="checkbox"/> Client	<input type="checkbox"/> Order	<input type="checkbox"/> Group	<input type="checkbox"/> In/Out
---	-------------------------------	---------------------------------	--------------------------------	--------------------------------	---------------------------------

	Goods	Weight	Number	Count
1	Apple	0.128	0	3
2	Screw	0.682	0	7
T	Total	0.810	0	10

The data list will add up the same item's data to together, such as

weight value, quantity, and so on.

At the same time, show the total data of all items.

#### 25.4.1 Statistics by Hi-Lo

Goods  HiLo  Client  Order  Group

	Goods	Weight	Number	Result	Count
1	Apple	0.128	0	NG	3
2	Screw	0.000	0	NG	2
3	Screw	0.560	0	LO	3
4	Screw	0.124	0	HI	2
T	Total	0.812	0		10

The date list will add up the same item's data and their Hi-Lo results together.

#### 25.4.2 Statistical can be refined by user set groups .

Goods  HiLo  Operator  Client  Order  Group

	Goods	Weight	Tare	Result	Group	User	Count
1	Apple	0.128	0.000	NG	03	Admin	3
2	Screw	0.000	0.000	NG	03	Admin	2
3	Screw	0.560	0.000	LO		Admin	3
4	Screw	0.124	0.000	HI		Admin	2
T	Total	0.812	0.000				10

Goods  HiLo  Client  Order  Group  In/Out

	Goods	Weight	Number	Result	Group	Count
1	Apple	0.128	0	NG	03	3
2	Screw	0.000	0	NG	03	2
3	Screw	0.560	0	LO		3
4	Screw	0.124	0	HI		2
T	Total	0.812	0			10

25.4.3 After choose the statistical rule by ticking the boxes across

the top , Press  to refresh the data.

## 25.5 daily statistics

works the same as standard statistics, but only allows one day's date as follow:

Report	Day	Month	Statistics	Day	Month	Close
08-10-2021	<b>Today</b>	Export				
<input checked="" type="checkbox"/> Goods	<input checked="" type="checkbox"/> HiLo	<input type="checkbox"/> Client	<input type="checkbox"/> Order	<input type="checkbox"/> Group	<input type="checkbox"/> In/Out	
Goods	Weight	Number	Result	Count		
1 Apple	0.128	0	NG	3		
2 Screw	0.000	0	NG	2		
3 Screw	0.560	0	LO	3		
4 Screw	0.124	0	HI	2		
T Total	0.812	0		10		

In daily statistics interface, it just has one date choose box,

Press  can back to current date quickly.

After chose the date, user need to press  to refresh the data.

## 25.6 Monthly statistics

Works the same as standard statistics, but only allows one months worth of data as follow:

Report	Day	Month	Statistics	Day	Month
2021-10	<	his Mo	>	Export	
<input checked="" type="checkbox"/> Goods	<input checked="" type="checkbox"/> HiLo	<input type="checkbox"/> Client	<input type="checkbox"/> Order	<input type="checkbox"/> Group	<input type="checkbox"/> In/Out
Goods	Weight	Number	Result	Count	
1 Apple	0.128	0	NG	3	
2 Screw	0.000	0	NG	2	
3 Screw	0.560	0	LO	3	
4 Screw	0.124	0	HI	2	
T Total	0.812	0		10	

User can use   choose the month, press  can back to current month quickly.

After set the month, the user also need press  to refresh the data.

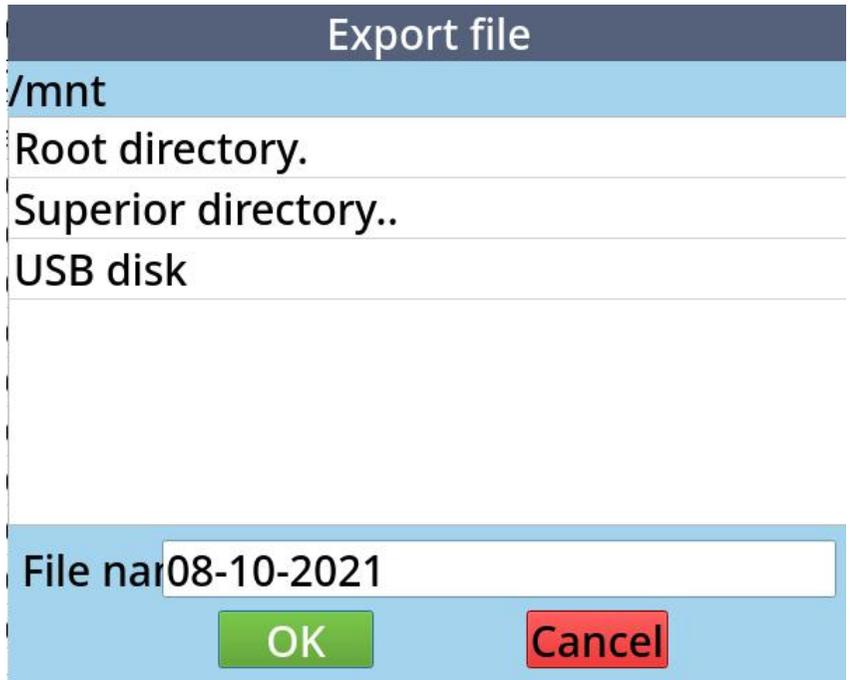
### 25.7 Re print

In report mode, use can choose the date which needs to reprinted,

Highlight the data row and then press  key

### 25.8 Export

Insert the USB flash drive, Report and statistics mode all can export data.



Select USB disk and Press ok will inform export succeed, then can remove the USB flash drive.

#### 25.9 delete

Highlight the item line, press **Delete**, This deleted data cannot be recovered.

In statistics mode, data cannot be deleted.

#### 25.10 Delete all

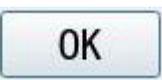
Press **Delete all** about 3 seconds, the delete all data



window

will pop up.



Press  will delete all data, include all stored data, not current showing data, please use with caution.

### 25.11 searching

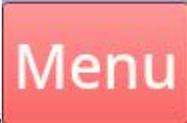
In every report interface, include statistics interface, users can input

the key words into the search box



Then press  to search for the item which includes the key words input.

## Menu

In weighing interface press  will pop up setting menu.



Press  to enter the parameter settings. The window is as follows:

Unit set	<input checked="" type="checkbox"/> kg	<input checked="" type="checkbox"/> g	<input checked="" type="checkbox"/> t	<input checked="" type="checkbox"/> lb	<input checked="" type="checkbox"/> oz	<input type="checkbox"/> ct
Function	<input type="checkbox"/> dr	<input type="checkbox"/> Viss	<input type="checkbox"/> MM	<input type="checkbox"/> tola	<input type="checkbox"/> lboz	<input type="checkbox"/> 斤
HiLo	<input type="checkbox"/> tl.J	<input type="checkbox"/> 港斤	<input type="checkbox"/> 台斤			
Variable	UW unit	<input type="text" value="g"/>				
Backup						

The column on the left is settings menu. It includes unit setting, function setting, Hi-Lo setting, variable edit, backup restore.

### 26.1 Unit setting

## Unit set

Press **Unit set** in the left, the unit-setting interface will show out, as follow:

<input checked="" type="checkbox"/> kg	<input checked="" type="checkbox"/> g	<input checked="" type="checkbox"/> t	<input checked="" type="checkbox"/> lb	<input checked="" type="checkbox"/> oz	<input type="checkbox"/> ct
<input type="checkbox"/> dr	<input type="checkbox"/> Viss	<input type="checkbox"/> MM	<input type="checkbox"/> tola	<input type="checkbox"/> lboz	<input type="checkbox"/> 斤
<input type="checkbox"/> tl.J	<input type="checkbox"/> 港斤	<input type="checkbox"/> 台斤			
UW unit	<input type="text" value="g"/>				

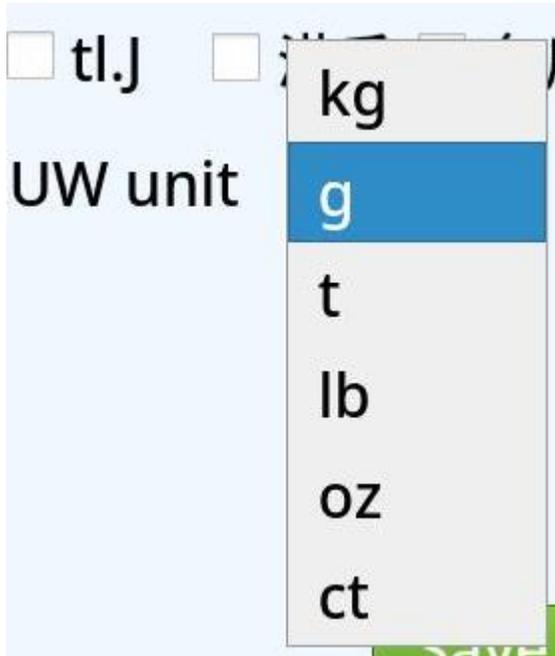
Tick the unit which you require when the unit key is pressed on the home scree example

Only the units which are ticked can be chosen through the

**Unit**

key.

Standard Unit setting is g, user can it change where required.



## 26.2 Function setting

**Function**

Press

for function setting interface

Power zero range 20 %

Manual zero range 4 %

Auto sleep time OFF S

Battery type Lead-acid

Open auto average (cnt)

Stable to zero

Auto M+

Goods name show alone

Brightness

Save Close

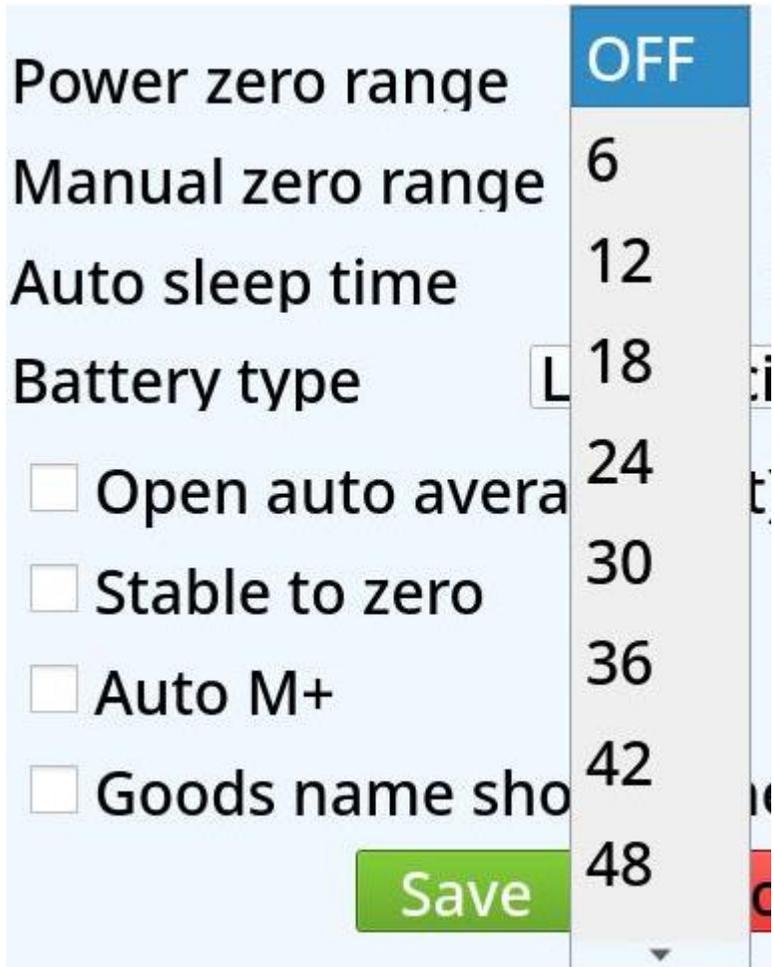
### 26.2.1 brightness

Slide the slider bar on the right to set the brightness of the back light.

### 26.2.2 Automatic sleep time

This function is used to set the length of time the back light turns dark. For example, this parameter is set to 12, it means the back light turns dark after 12s. If the indicator is operated or the weight value changes, the back light will turn back on. If it is set to OFF, the back light will keep the set brightness and never become dark.

The setting details are as follows:



### 26.2.3 power zero range

Allows the scale to Zero when powered on rather than calibration zero range, The default difference is 20%.

More details please refer to point 18.

### 26.2.4 Manual zero range

Allows the user to zero the balance when the weight is with in set % Difference The default difference is 4%.

More details please refer to point 19.

#### 26.2.5 Automatic averaging

### Open auto average (cnt)

This function means in counting mode, sample by quantity, if weighing in the follow range: 10%-200% of last weight value the scale will recalculate the quantity and average weight, the scale will beep once, and the average unit weight will change.

#### 26.2.6 Tare and zero after stable

### Stable to zero

Scale will tare and zero once reading is stable and the stable sign appears.

#### 26.2.7 Automatic add up

### Auto M+

Once weighing is stable, scale will add up current weight and quantity.

Note: scale needs to be clear and back to zero  
Before the next weight is added

## 26.3 Hi-Lo function

# HiLo

Press **HiLo** will show Hi-Lo setting interface as follows:

- Open HiLo**
- Alarm needs stability**
- Zero alarm**
- Negative alarm**

## 26.3.1.1 Open Hi-Lo alarm

This function controls the alarm open and close, in open mode the alarm will sound when the weigh is outside of the Hi Lo parameters

## 26.3.1.2 Negative Alarm

Alarm will sound when value is negative.

## 26.3.1.3 Zero Alarm

Alarm will sound when weighing value is zero.

## 26.3.1.4 Alarm needs stability

The alarm will not work unless stable

## 26.4 Variable edit

Allows the user to add additional scanners. (point 17 user defined input function),

# Variable

press **Variable** will show variable edit interface as follows:

Client		Order		Group	
Add	Delete	Add	Delete	Add	Delete
Xiaomi		li		03	
Huawei		002		02	
		003		01	
		001			

**Add**

To add content into the variable box, press

Client	
Xiaomi	
Add	Delete
Xiaomi	
Huawei	

After pressing add the input box will be updated

press  on the input box on main screen:

kg	Xiaomi
Goods	Huawei
Client	Xiaomi 

## 26.5 Restore and back up

**Backup**

Pressing **Backup** will show restore and back up as follows:



### 26.5.1 Backup

Insert USB, then press Back up, this will create restore directories and files on the USB automatically. After backup succeed, the message “back succeed” will pop up.

### 26.5.2 Restore

Insert the USB which has restore files, press restore. The latest backup data of scale will be retored, include settings and stored data.

## 27 Communication

### 27.1 setting

Press , then press  in the pop-up window:

Comm1	Mode	<input type="text" value="Response"/>
Comm2	Baud	<input type="text" value="9600"/>
build print	Protocol	<input type="text" value="0"/>
Print setup	Paper cut	<input type="text" value="Close"/>

### 27.2 Serial port1, Serial port2, Serial port3

The settings for 3 serial ports are the same.

Interface as follows:

Mode	Response ▾
Baud	9600 ▾
Protocol	0 ▾
Paper cut	Close ▾

#### 27.2.1 Mode

Includes: close, continuous, stable, Response, Manually & print mode.

Mode	Close
Baud	Continuous
Protocol	Stable
Paper cut	<b>Response</b>
	Manually
	Print mode

#### 27.2.1.1.1 close

Close this serial port.

#### 27.2.1.1.2 continues sending mode

It means scale will sending weighing data continually

#### 27.2.1.1.3 Stable sending mode

Scale will send weighing data when scale is stable.

#### 27.2.1.1.4 response mode

Scale will not send data unless it is requested

#### 27.2.1.1.5 Manual sending mode

In weighing mode, scale will send one group of data after press print key.

#### 27.2.1.1.6 Print mode

Different mode of printer connection.

Print mode includes auto print after stable, manual print. Please check details in print settings.

#### 27.2.1.2 Baud rate

Users can choose baud rate here, highest is 11520, and the default is 9600. This baud rate needs to match the same as PC or printer's baud rate.

Mode	1200
Baud	2400
	4800
Protocol	9600
Paper cut	19200
	38400
	56000
	57600
	115200

### 27.2.2 Protocol

Communication format is set to print mode.

0-4 are built-in printer's print format.

5-10 are user defined print format. Use PC downloaded print format to the scale,

### 27.2.3 Paper cut

If using an additional external printer with cut function users can define where the cut is.



Set to close means no need to cut.

Set to normal means connected with common printer with cut paper function

Set to GpXXXX means connected with Gprinter with cut paper function.

### 27.3 Bluetooth – Factory fitted and requires to be requested on order and is subject to lead time

Here's Bluetooth is the Bluetooth of host mode, usually connect with Bluetooth printer.

## Bluetooth

Press [the Bluetooth setting](#) interface will show. As follows:

Open 58:63:56:5B:EB:97

Bluetooth host

Protocol 5

Paper cut Close

Connect bluetooth Disconnect

connection NULL

Save Close

Toggle left switch to open. The right side will show the scale's Bluetooth mac address,

When Opening or closing Bluetooth switch user needs to press save and restart the scale before it can be used.

### 27.3.1 Data protocol

Communication is the print format which connects with Bluetooth printer. The details are the same as serial port setting.

### 27.3.2 Cut paper

It means when users use the printer which has cut paper function, can set if need cut paper here. The details are the same as serial port setting.

### 27.3.3 Connect to Bluetooth equipment

Press connect to Bluetooth equipment. Interface as follows:



#### 27.3.3.1 search

The scale will search Bluetooth devices around, and the Bluetooth Settings will be displayed below.

Users can search for Bluetooth 2.0 and Bluetooth 4.0(BLE) equipment.

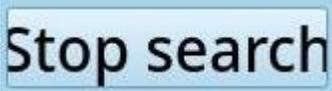
```
00-20-06-11-04-4C [SPP]
00:20:06:11:04:4C
0C-3C-D3-8B-5E-CB [SPP]
0C:3C:D3:8B:5E:CB
4F-A7-7A-14-D0-0A [BLE]
4F:A7:7A:14:D0:0A
6F-8B-1C-66-63-98 [BLE]
6F:8B:1C:66:63:98
```

Bluetooth name followed with [SPP] is Bluetooth 2.0equipment.

Bluetooth name followed with [BLE] is Bluetooth 4.0equipment.

Bluetooth name followed with [paired] is Bluetooth 2.0equipment and paired already.

### 27.3.3.2 Stop search

Press  to stop searching for Bluetooth equipment.

### 27.3.3.3 connect

Choose the equipment, which need to be connected, press



If the equipment is Bluetooth 2.0, and has not been paired, pair window will pop up as follows:



Please enter PIN

Usually for 0000 or 1234

Now input the PIN, PIN is 0000 or 1234 usually. Press OK it will show connected and run connection.

If the equipment is already paired or the equipment is Bluetooth 4.0[BLE], there is no need to run pairing, press connect, and the connection will run directly.

It will show the following picture after pairing succeed.

**Bluetooth device is connected!**

and the Mac address will show under the Bluetooth setting window.

connection 98:D3:31:30:11:FD

27.3.3.4 close

Close the serial port of Bluetooth equipment.

27.3.4 disconnect

Pressing disconnect will terminate the connection. The scale can only connect to 1 device at a time. To connect to another device disconnect and then follow the connection process.

27.4 Internet connection **WIFI is a Factory fitted option and requires to be requested on order and is subject to lead time**

If the scale has Wi-Fi module or Ethernet module,

**Network**

Press Network button

27.4.1 Wi-Fi module's interface is as follows:

### Wifi Settings

Search	Name <b>FYX_C583_2.4G</b>
-45   ChinaNet-eWp3	Passw <input type="text"/>
-53   FYX_C583_2.4G	<input type="checkbox"/> Static IP
-65   办公室	IP <b>0 · 0 · 0 · 0</b>
-66   FZDX	Mask <b>255 · 255 · 255 · 0</b>
-47   ChinaNet-WjNr	Gateway <b>192 · 168 · 0 · 1</b>
-66   MiDashCam2_v3_650	
-66   Xiaomi_E070	
-69   ZDCW	
<input type="button" value="Connect"/> <input type="button" value="Disconnected"/> <input type="button" value="Close"/>	

Press search, if there is a Wi-Fi hot-spot in range, they will appear in a list below the search button. It will show the related hot-spot name and signal strength.



Input the password, press

If connect is succeed, here will show:

**Connection is succedful, IP is192.168.0.122**

Once connected restart the scale and the Wi-Fi symbol should

be showing on the screen ,

If users need to set static IP, please tick

**Static IP**

Enter the IP address, sub-net mask, and default gateway in the below text box.

The sub-net mask and default gateway must be the same as the connected router, and the IP address and default gateway must be on the same network segment.

For example, if the sub-net mask is 255.255.255.0 and the default gateway is 192.168.0.1, the IP address can be 192.168.0.2-192.168.0.255. In addition, the IP address cannot conflict with other devices on the network.

27.4.2 Ethernet interface as follows:

**Static IP**

IP	0 · 0 · 0 · 0
Mask	255 · 255 · 255 · 0
Gateway	192 · 168 · 0 · 1

**Connect** **Disconnect** **Close**

Ethernet module plugs into Internet via RJ45, the network is automatically connected

## 27.5 Network sever

The network server connecting via PC / computer to actively connect to the electronic scale.

### Server

Press to show network sever setting  
interface as follow:

Server mode	Close
Server protocol	5
This IP	192.168.0.122
Server port	55555

#### 27.5.1 Sever mode

Include close, continues sending mode, stable sending mode, response mode, key sending mode, print mode

Close mode: network server is off. Keep server mode closed when not being used or connected. Keeping the server closed can reduce CPU usage and improve the reaction speed of electronic balance.

### 27.5.2 Server Protocols

Communication format. When set to print mode, this parameter is print format. Refer to 27.2.

### 27.5.3 Local IP

It is the IP address currently obtained by the scale. If the IP address is 127.0.0.1, it means that the network is disconnected and cannot be used.

### 27.5.4 Server port

Port used by the local machine created server.

The network server needs other equipment such as PC to actively connect the scale, and the IP address and port of the server need to be set during the active connection, and corresponds to the local IP address and server port.

## 27.6 Network client

Network clients actively connect to other servers, such as a computer created network server,

# Client

Pressing \_\_\_\_\_ will show network client interface as follows:

Client protocol

Client

Connect IP  Port

Heartbeat interval  S

Times reconnect if not detected

#### 27.6.1 Client mode

Include close, continues sending mode, stable sending mode, response mode, key sending mode, print mode

Close mode: the scale will not create a network server. It can be closed when not in use, which can reduce CPU usage and improve the reaction speed of electronic balance. Please check details refer to 27.2

#### 27.6.2 Client protocol

Communication and print format. Please check details refer to 27.2

#### 27.6.3 Connection IP

It's the IP address of the network server to connect to, such as the local IP address of the computer

#### 27.6.4 Port

It's the port of the network server to connect to, such as the server port set when the computer.

#### 27.6.5 Heartbeat Packet Interval

For some network connections, such as Wi-Fi, the router will disconnect the connection when there is no communication for a period of time.

Heartbeat packet interval Setting is used to set the interval to which scale sends heartbeat packets. The unit is second. You can set the interval as required.

If it is not required, it can be set to off. If it is required, it can be set to 30 seconds.

In the continuous sending mode, the heartbeat packet function is disabled because the continuous sending mode has been continuously sending data, and the heartbeat packet function is meaningless.

#### 27.6.6 Active Re-connection

**Close** Times reconnect if not detected

In complex networks, the server can be required to send the received heartbeat packets back to the electronic scale. The scale can determine whether the heartbeat packet is received. If the heartbeat packet is not received several times, the network connection may be disconnected,

For example, if the value is set to 3, heartbeat packets are sent for three consecutive times, but the scale still does not receive heartbeat packet data from the server. In this case, the electronic scale considers that the network connection has been disconnected.

## 27.7 Print setting

# Print setup

Press  will show print setting interface as follows:

Print mode	Manual	None	Hilo print
Control	Unlimited	<input type="checkbox"/>	Tare after print
USB protocol	5	Format manage	
Cut paper	Close	USB Host	(to device)
Address	0	Scale ID	123
Barcode	Close	Format	6

### 27.7.1 Print mode



Print mode can be set to manual print or automatic print.

#### 27.7.1.1 Manual Print

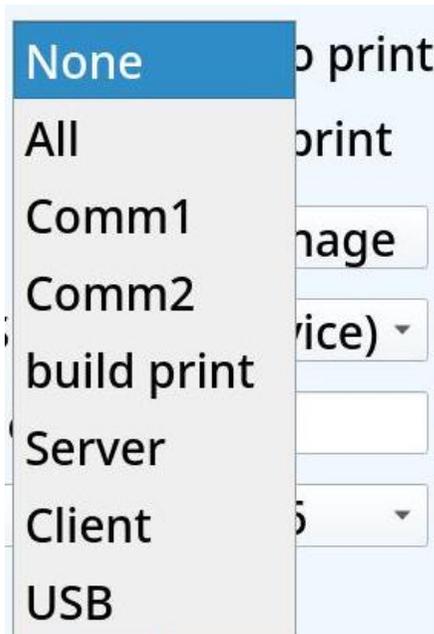
Press print key to print once.

27.7.1.2 Automatically print means scale will print once when scale is stable.

27.7.1.3 Store weighing data is also controlled by print mode, data stored when print has been pressed

#### 27.7.2 Qualified print

In Hi-Lo function, once the weight value or quantity is in qualified range, printing will be allowed. Manual print and automatically printer all been control by this setting.



User can set to:

- None means print and store -not controlled by Hi-Lo function.
- All means, all ports which are set to print mode need weight value or quantity in qualified range including storing data.
- Other settings, such as Comm1, which is set to print mode need weight value or quantity in qualified range, then can print. Other serial ports do not have affect, include store data.

Control	Unlimited
USB prot	Back zero
Cut pape	Weight change

- Unlimited means that there are no restrictions to printing and the user can print when value back to zero or not, changed weight or not.
- Weight value back to zero means before next print the scale needs to be back to zero by removing all the weights,
- Weight change means next print will happen with a change of weight and no need to go back to zero

#### 27.7.4 Tare after print

### Tare after print

This function means that tare is automatic after each printing. This function can be used for batching or incremental weighing functions. For example, place a container on the scale, press zero, and then add material to the container, and print automatically or manually once printed the scale will automatically tares, and the net weight becomes zero, continue to add material to the container, and print automatically or manually. The new printed net weight is the weight of the newly added material, and the gross weight is the weight of all materials in the container.

### 27.7.5 USB printer protocol



Print protocol used when connected with the USB printer.  
The details are the same as serial port setting.

### 27.7.6 Format manage



In this interface, user can delete or import format.

	Format	Single	Single	M+	M+	
1	5	Delete	Import	Delete	Import	
2	6	Delete	Import	Null	Import	
3	7	Null	Import	Null	Import	
4	8	Null	Import	Null	Import	
5	9	Null	Import	Null	Import	
6	10	Null	Import	Null	Import	
7	11	Null	Import	Null	Import	
8	12	Null	Import	Null	Import	

**Close**

- The format column corresponds to the protocol of the serial port or printer Settings.

- The first single column can delete the format existing in the

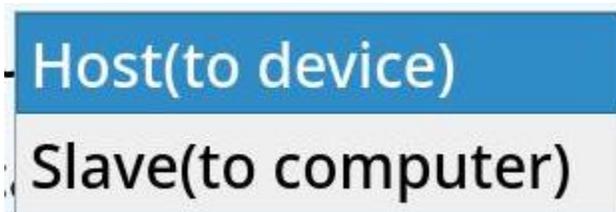
electronic scale. Only Formats loaded in the printer will show as able to be deleted. When setting the protocol of serial port or protocol, user should select the format existing in the scale, that is, the format with the word "delete" appearing here.

- The second single column can import format from a USB. files can be generated by using the export function of the print format editor
  - The first M+ column can delete the format existing on the scale. This format is used for add up or subtotal printing. The add up print format does not conflict with the single print format. The same print number can have both the single print format and the add up print format. It will appear here only if it is set to the format for add up printing and downloaded successfully in the label editor. The second M+ column can import format from a USB. files can be generated by using the export function of the print format editor

#### 27.7.7 Cut paper

It is the cut paper function of USB printer.

## 27.7.8 USB mode



User can set it to host or slave.

Scale includes small USB port (connected to the PC) and large USB port (connected to the equipment)

- Host (with equipment)  
Large USB port, user can connect USB, barcode scanner, mouse, keyboard, USB printer and other equipment.  
The scale only has one large USB port by default, but it can be connected to a USB hub, which can then be used to connect multiple equipment at the same time.

The specific function settings of the barcode scanner are in the Dealer settings

- Slave machine (with PC)  
Small USB port, can connect PC. After connecting to PC, the PC needs to install the corresponding drive, most PC's will automatically install and generate a serial port after the installation is completed. Users can read and write data through the serial port and also can download and read the item data and weighing record.

## 27.7.9 Scale address

It is used to distinguish scales in multi-machine communication.  
And distinguish scales when submitting data through network connections.

#### 27.7.10 Scale ID

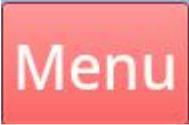
It is used to distinguish scales in multi-machine communication.  
And distinguish scales when submitting data through network connections.

The address of the scale can only be a number, and the ID can be a string

#### 27.7.11 barcode

Used to set whether barcode can show or not on the main interface. For details, please check point 15.

## 28 Time setting

Press , then press  in the pop-up window:

**Modified date/time**

Date

Time



Input the right date and time directly, press

Note: The time section is in 24-hour format. For example, 1pm should be set to 13:00.

## 29 Dealer setting



Press



, then press

Input the password then can enter into the Dealer setting. 123456

Dealer settings can only be modified by the dealer

### 30 update



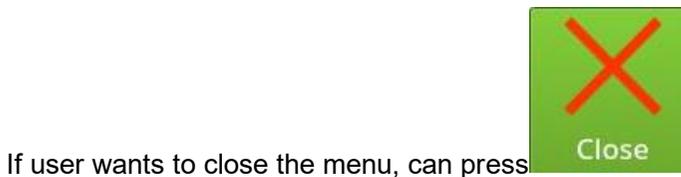
Then scale start checking the update file in USB.

This function requires placing the update file in the root directory of the USB flash drive and inserting it into the scale.

If the USB flash drive or update file is not identified, it will show that the update file does not exist. If the update file exists, it will show that update is ready. After the update is completed, the scale will automatically start the new program.

Do not power off the electronic scale forcibly during the update. Otherwise, the scale may fail to start.

### 31 close



### 32 User management (option)

When user management been opened in Dealer setting, user can press user manager in menu.

## 32.1 Users manage



	Add	Edit	Delete	Default		Clear	Close
	Id	Name	User	Setting	Goods	Record	UW
1	1	User	X	X	X	X	X

The name and permission of the added user are displayed in the list box. Admin exists by default, but does not appear in the list box, and has full and highest permissions, and cannot be edited or deleted.

### 32.1.1 Add

new user window:

**Add user**

Name  Password

Allow users       Allow Settings

Allows Goods       Allows records

Allows UW       Allow HiLo

Here you can set user name and password, and the permissions of this user.

- Allows edit users  
User has managed user permissions.
- allows set parameter settings.  
User has the permission to set user parameters, communication settings, and time settings.
- allows editing items  
User has the permission to add, edit and delete items, but even without the permission to edit items, the user can still

select items that already exist in the scale.

- allows editing records

User has permission to delete the records in the scale. Even if the user does not have permission, the user can still view and export the records in the scale.

- allows setting unit weight

User has the permission to modify the unit weight. The modified unit weight here refers to the unit weight setting and quantity sampling in the weighing interface.

- allows setting Hi and Lo

User can change the Hi and Li limits and sorting values, here the Hi and Lo limits and sorting values refer to the Hi and Lo limits and sorting values in the weighing interface.



press  can add this new user. The newly added user is displayed in the list box on the user management page.

#### 32.1.2 edit

Select a user to be edited and click edit to enter the user editing mode. The content in the user editing mode is the same as that in the new user mode. For details, see the description of adding functions.

#### 32.1.3 Delete the selected

Select the user which wants to delete, click delete to selected, then delete the corresponding user and cannot be restored after deletion, please careful operation.

#### 32.1.4 Default Login

Select the user to log in by default. Click Default login to display the user in the text box on the right.

This function means that the user automatically logs in to the system after each startup.

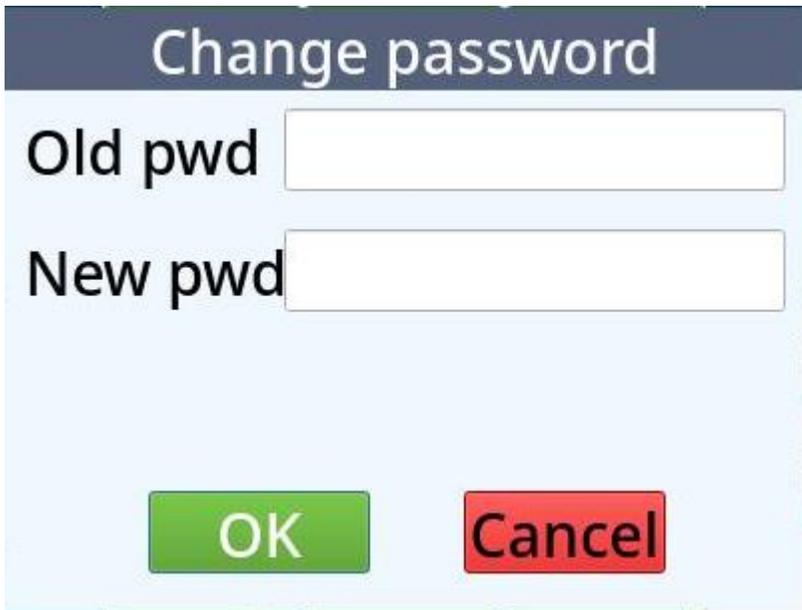
### 32.1.5 Clear

The default login user is cleared, that is, the default login function is disabled. After each startup, user needs to manually select the login user and its password to log in to the system.

### 32.2 Modify password



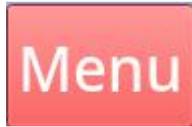
Note: This button cannot be clicked if the user management function is not enabled in Dealer Settings.



Enter the old password and the new password, then click OK to complete the change.

### 32.3 Exit



Press , then press  in the pop-up window can exit the current log in user.

Users with log in will be saved in the weighing record at the same time for query also collect statistics based on login users.

### 32.4 User Login

If the user management function is opened and the default login user is not set, the user login page is displayed after each startup as follow:



User can press to select the existing user, enter the correct password, and then press



to login.

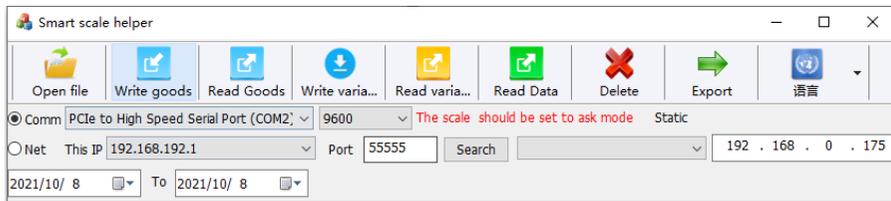
After successful login, the logged in user will be displayed in the upper left corner of the weighing interface



### 33 Use PC for data management

scale can be connected to the PC through the network or serial port. We have supporting software Smart helper, read and write material information, and variable information, can also read the weighing record.

Interface as follows:

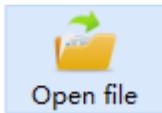


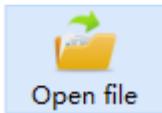
- open file  
Can open the excel file and show in below.
- Download goods  
Download the goods information in the list to the scale (pay attention to the format, read the goods first, and then edit according to the format which read).
- Read goods  
Read and show the goods information of scale.
- Download variables  
Download the variable information to the scale.
- Read variables  
Read and show the variable information of the scale.
- Read data  
Read and show the weighing data of scale.
- delete  
The delete button here only deletes the data in the list of the software, not the data in the scale.
- export  
User can export the data of list to excel file.
- Due to the different content of each intelligent scale, the format of

reading and writing goods is also different, so if user wants to download goods, please read goods first. Then edit or add goods according to the format.

Columns that are not used should not be left blank, user can fill in 0 or space when downloading goods.

- This software cannot delete goods and records, if user wants to delete, please operate by scale.
- Weighing data just can read, cannot write and delete.
- If it is not convenient to edit on the software, users can read the material data and export it as an excel file, then edit it in excel and



press  to open the edited file.

### 34 Communication

#### 34.1 Wire connection

Indicator with female connector (factory default)

Connect to Indicator (male connector)		Connect to PC port (female connector)	
Pin	Define	Pin	Define
2	TXD	2	RXD
3	RXD	3	TXD
5	GND	5	GND

Indicator with male connector

Connect to Indicator (female connector)		Connect to PC port (female connector)	
Pin	Define	Pin	Define
2	RXD	3	TXD
3	TXD	2	RXD
5	GND	5	GND

## 34.2 Default data protocol

### 34.2.1 Scale sending data

S	T	,	N	T	,		1	2	3	4	.	5	6		k	g	CR	LF
Header1			Header2			8 bits of weight value data						Unit		0D	0A			

Header1				Header2			
ST,	Stable			NT,	Net weight		
US,	Unstable			GS,	Gross weight		
OV,	Overload			TR,	Tare weight		

Weight value data is ASCII character, may have follows characters:

“0” ~ “9” number    “ ” blank    “.” Decimal point “-” negative

sign

If in response mode and the host computer has sent address information, XX is added before the data to be sent back. XX is the specific address. If address 2 is used, 02 is sent.

### 34.2.2 Format of the command on the host

R	T	CR	LF
Header		13	10

Header(command)			hexadecimal
R	N	Read net weight (NET)	52 4E
	T	Read tare weight	52 54
	G	Read gross weight (GROSS)	52 47
	C	Read inner code	52 43
	U	Read unit weight (counting mode is opened)	52 55
	Q	Read quantity (counting mode is opened)	52 51
S	Z	zero	53 5A

T	tare	53 54
U	Change unit	53 55

If multiple equipments are connected, user can add the address @xx in the format of the command. XX is the address information. For example, if user accesses a scale whose address is 02, add @02 to the command.

In continuous sending mode, the command to read data is not available, but the command to return to zero, tare and switch units is still available.

### 35 Units conversion

1	kg	=	1000g
1	lb	=	453.59237g
1	oz	=	28.349523125g

### 36 Error information

Display	Error	solution
ADO---	AD value overflow	Take off the weights or send to repair
ADL---	AD value overflow	Take off the weights or send to repair
OVR---	Overload	Check if the weight of weighs is +9e more that the Max. Cap.
Batter sign red	Low power	Charging
Low battery, please charging	Battery 'voltage is very low	Stop using and charging

### 37 Common Usage Scenarios

37.1 Test whether the goods are qualified

- Turn on the Hi-Lo function in Dealer Settings first.
- Set the Hi and Li limits of each goods in the goods setting, or manually set the Hi and Lo limits in the weighing interface, the scale will compare the current weight or quantity with the Hi and Lo limits, and show the results on the screen.
- If the buzzer sound is required in case of failure, user can enable Hi and Lo alarm output in user parameter setting. See 26.3 for details.
- In addition, users can choose the alarm lamp output, so that you can see the upper and lower limit results more intuitively.
- More details please check point 11.1

### 37.2 Sorting items by level

- Open the sorting in Dealer settings.
- Set the upper and lower limits of each item and the sorting value the scale will compare the current weight or quantity with the sorting value and display the sorting result of the current item on the screen.
- If the buzzer sound is required in case of failure, user can enable upper and lower alarm output in user parameter setting. See 26.3 for details.
- More details please check point 11.3.

### 37.3 ERP system needs to input weight through the barcode scanner

- Set the barcode or QR code to be shown in the main interface in communication setting.

- Use HCTPubPrintEditor to edit the format according to the data format scanned by the barcode scanner,
- After setting correctly, when the weight is stable, the corresponding bar code will be shown on the weighing interface. At this time, the barcode scanner can scan the bar code to send and show the weight in the ERP system.

- When the bar code is displayed on the left, the Hi and Lo limits will not show. If user wants to see the Hi and Lo limits,



select the Hi and Lo limits in user parameter settings. The colour of the barcode or QR code displayed on the left will change according to the Hi and Lo limits. For example, yellow is below the Lo limit.

- More details please check point 15.

#### 37.4 Total weight and quantity should be printed at the end of the day

- Open the subtotal function in Dealer setting.
- Open the format editor to edit the corresponding format. Note that the total and total weight equivalent of the subtotal need to select the total weight and total of the accumulated part in the editor.
- The label editor needs to be set up for cumulative printing
- Download format to scale, the serial number is generally the same as a single print serial number.
- To print the total weight and quantity, press



can print the total quantity and weight.

MC

- press  to clear subtotals after printing.
- More details please check point 12.

### 37.5 Many Warehouses do not have ERP software, How to use electronic scales for simple inventory management

- Open stock manage function in Dealer setting.
- Edit the current weight and quantity stock for each of the products in goods management.
- In the main interface, select stock in, stock out and check stock.
- Put on goods
- Press print, now the stock of goods will do stock in, stock out and check stock.
- More details please check point 14.

### 37.6 Track Employees finally count and workload

- Set a user for each employee. Enabling the user function in dealer Settings and adding the name or number of each employee in user management. Exit the current user and select a new user to log in.

More details please check point 32.

- Users can also select the name or number of the employee on the main interface directly. More details please check point 17.
- press "Print" after each time of weighing, user can print out the employee's name or number.
- In the report interface, users can see the specific weighing record of each employee. Users can also enter the employee number or name to search records, so that only the weighing record of a certain employee's can be seen.
- In the statistics page, users can choose to collect statistics by

user and export statistics.

- More details please check point 25.

### 37.7 Submit data through network or RS-232 connection to the server or internal memory.

- If it is the simple exchange of weight, user just needs to set the corresponding port to the continuous sending mode or response mode. Under the continuous sending mode still can do zero, tare and switching unit.
- If user is submitting more complex data, it is recommended that user set the appropriate port to print mode, edit the desired data format by using format editor, and set the printer as a data assistant.
- Download the format to scale, pay attention to download serial number do not conflict with other used serial numbers, and the corresponding port protocol should be set to the corresponding value.