BTT

Touch-screen Label Printing Scale
(AE 505 Indicator)

USER MANUAL

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

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 AE 505 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 AE 505's battery will hold less charge and will need recharging more frequently. Adam Equipment 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 Adam Equipment 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 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℃, lower than 90% RH

3.8   Storage temperature: -25~55℃

4   Assembly

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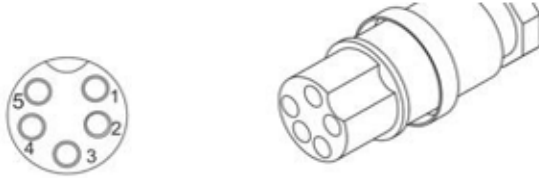
Pin	Definition	Note
1	E+	
2	E-	
3	S+	
4	S-	
5	Ground	Connect to the shielded wire (Option)

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 display.

5   Ports

You can find the scale's main ports on the back of the AE 505 indicator:
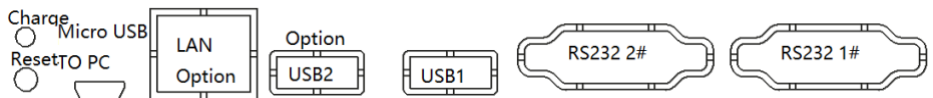
Serial port 1# in the right side of the back of the indicator. Serial port 2#

is on the bottom of the indicator.

5.1   If you need to reset the AE 505, press down the left button.

5.2   When the charging light is red, the indicator is charging. When the charging light is green, indicator charging has finished.

5.3   USB1 can connect to U-disk and barcode scanner.

5.4   USB2 is optional; AE 505 indicators are supplied as standard without this port.

5.5   RS232 1# can connect to PC.

5.6   RS232 2# can connect to an external printer.

6   Getting Started

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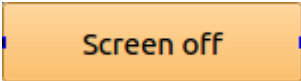
In power off mode, press the On/Off button on the back of the indicator. When the display shows a zero reading, you're ready to start weighing.

6.2   Power off

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

Turn off

Screen off

Cancel
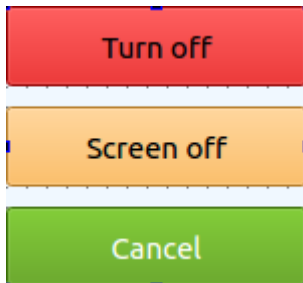
Choose Turn off to turn off,

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

Choose Cancel to return to working mode.

7 Charging

Connect the adapter provided to the AE 505, and connect to a suitable power source. When charging begins, the charging light will glow red. This light will turn green when charging is finished (the charging length should be 5-7h).

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.

Do not use other adapters as this may cause damage to the rechargeable battery.

8 Display

8.1 Weighing window

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

Weight		Tare	0. 000
0. 188		Gross	0. 188
Stable	kg		

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

Weight		UW	
	0.186		0.000
		Number	
	Stable kg		0

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 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
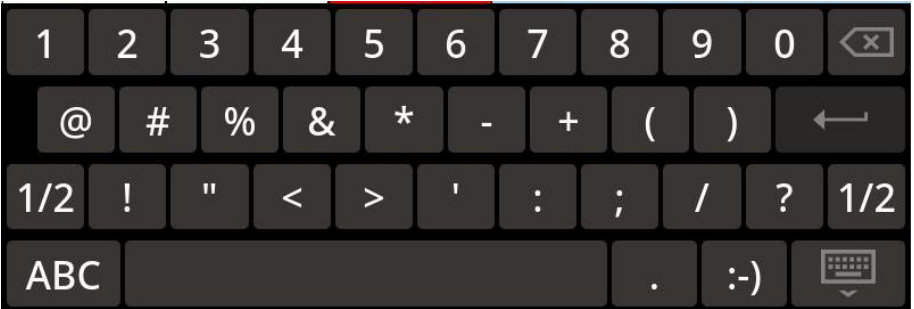
9.3   The second page of symbol

 Close the keypad

Backspace

Enter

Shift, Caps Lock

Space, English or Chinese input.
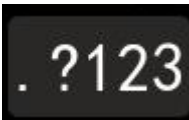
.?123 Symbol/number keypad switch

ABC Switch to English or Chinese input mode

1/2 Symbol mode switch

Toggle between English or Chinese keypad

10 Function buttons

Print | Report | Menu | PreTare | Tare | Zero | Unit

10.1 **Print** Print and store the recent weight and goods data.

10.2 **Menu** Pop-up the setting menu. Includes settings and Help information.

10.3 **Report** Check the stored print record.

10.4 **Unit** Toggle between weighing units.

10.5 **Zero** 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. User can set manual zero range in user setting.

10.6 **PreTare** After pressing this key, the input box will pop-up.

Input the tare weight manually. The scale will use the input tare weight.

10.7 **Tare** Add the tare weight to the scale, and press this key to tare off the value from the display. Please note, users cannot tare when 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 0.560	0 0.000	0 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 shows the same as the second row, but showing as the weight value.

11.1.2 Check Counting mode

Lo 0PCS	OK	Hi 0PCS
0 0PCS	0 0PCS	0 0PCS

This display is the same as weighing mode, but Hi-Lo values show is pcs, as do the number of times, and total count quantity, display 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 output <0 or =0 value, this can be set in the user parameter setting.

When the weight or quantity is less than 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 color of Hi-Lo box changes, press print key at this time, the bottom of the box will show the count and the weight value will show below X times.

Lo 1.000 kg
3
0.560
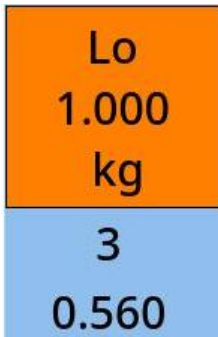
11.1.4 Set Hi-Lo value

11.1.4.1 Set Hi-Lo in goods data

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

Hi	0.000	kg	Lo	0.000	kg

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

Hi	5	kg	Lo	1	kg

11.1.4.2 Modify the Hi-Lo value manually

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

Lo 1.000 kg	OK	Hi 3.000 kg

,

Hi	3.000		kg
1	2	3	<-
4	5	6	
7	8	9	OK
.	0	Clear	Close
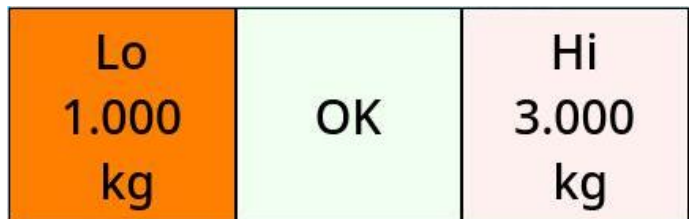
Input the Hi value, press confirm key, the input the Lo value.

Lo	1.000	kg

Press confirm again to go back to weighing mode. Now the Hi-Lo value has changed to input one.

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

The information is 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.

Target mode sets the Lo limit value to target value. For example, when the weight value is half of the Lo limit, the percent state line will show 50%. At this time, press Print; the number of times 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 Function instruction
Sorting mode is used for goods classification.

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
0		0		0

From up and down, the information is sorting value, the condition of sorting, the number of times of sorting, the total weight of sorting.
For example, when the weight value is between 1.0kg-2.0kg, the

```
2. 0000
   A
1. 0000
   kg
```

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 have one box that shows green, the printed and stored value will statistical to qualified subtotal value.

At this time, press Print, the number of times will show under the qualified box, and the total weight of sorting will show under the number of times.

11.3.2 Set sorting value

11.3.2.1 Set Hi-Lo in goods data

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

Hi	0.000	kg	Lo	0.000	kg
A-B 0.000		B-C 0.000		C-D 0.000	D-E 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 Modify the sorting value manually

When a user does not call goods or wants to change sorting setting, please press the sorting box, 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 1.000	A 2.000	B 3.000	C 4.000
D 5.000	E 6.000	kg	

OK   Cancel

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 **OK** to go back to weighing mode, now the shorting value will change to input one.

12 Subtotal

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

When subtotal has been opened in agent setting, the subtotal value and clean the subtotal value will show in the left bottom of the display.

Subtotal:1 Total:weight:0.062 kg

M+ print	MC

Press **M+ print** to print out the add up printed number of times, weight and quantity after last cleared.

MC This button can clear the subtotal.

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

13   Add up

13.1   Function instruction

Add up function has no connection with common printing. Users can do add up and add up print individual.

When the Add up function is opened in agent setting, the lower left of the screen will show add up value and relevant keys.

M+4 Total:weight:0.248 kg

M+   **MR**   **Print**   **MC**

13.2   Keys

M+ This key can add up current weight or quantity.

MR This key can show every time weight, quantity and add up total weight and quantity.

13.2.1 Reshow

	Goods name	Spec	et weig	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

Buttons: Print | Print/clear | Delete | Delete all | Close

In re-show condition, user can print out add up value.

User can choose one of the items which need to be deleted, then press

Delete to delete its data.

Users also can press **Delete all** to delete all add up value.

Print/clear It means print add up value, and the delete all add up value after print.

Print This key is used to print add up value and delete all add up value after print.

MC This key can delete all add up value. After deleting,

add up value back to zero.

14 Stock manage function

14.1 Function instruction

Stock management function can store the weight stock and quantity stock for every item of the scale. It can do stock in and stock out of the warehouse and stock management.
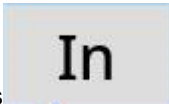
When this function been opened in the agent setting, the lower left corner will show stock value and relevant keys.
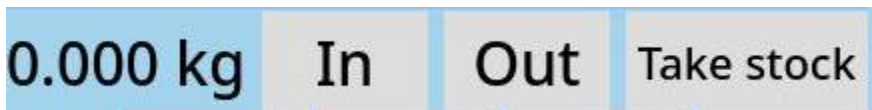
The left is the stock value of the current item. The three keys which are on the right are stock in, stock out and Take stock.

14.2 keys operate

14.2.1 Stock in
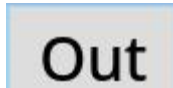
When weighting is for stock in, press , then this key will become green

Now put on the weight item, and press , the current weight or quantity will add to the stock value of 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
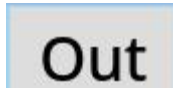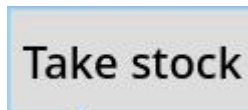
When press **Out** ,this key will become to green, other two keys will become ash show.

In Out Take stock

Now put on the weight item, and press **Print** , the stock value of current item will reduce the current weight value or quantity. And at the same time, the stock value of current item will show the latest stock value in the left.

14.2.3 Stock management
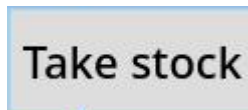
When press **Take stock** , this key will become green, and other two keys will become ash show.

In Out Take stock
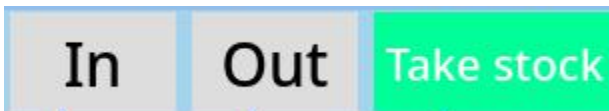
Now put on the weight item, and press **Print** , the stock value will set to the current weight value or quantity. The stock value on the left will show the latest stock value.

14.3   Check the stock

When opening the stock management function, the stock value of every item will show in the choose goods interface. If users opened

the 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	ပန်းသီ			0.000	0.000
3 1233	Screw	4x8		0.000	0.062

15 Show barcode

Users can set if open or close the barcode or QR code show in the interface.
In the communication setting, users can choose the show way of the label.

Print setup   Cut pape Close

Address   Left 128

Left Qrcode

Barcode   Right 128

Right Qrcode

Left2/Right1
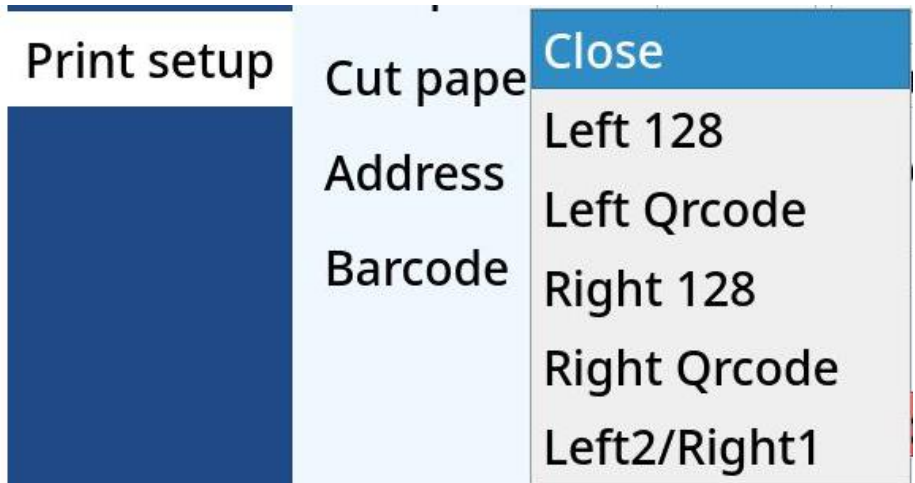
Close   It means do not show any barcode or QR
code.

Left 128   It means show the barcode in the
lower left.

Left Qrcode   It means display the QR code in the

lower left.

Right 128 It means display the barcode under the goods.

Right Qrcode It means display the QR code under the goods.

Left2/Right1 It means show the QR code in the lower left and also show the barcode under the goods.

This function can show barcode and QR code at the same time, for users use different scan gun to scan.

Note: the content of barcode cannot be complex, it's weight value and unit normally.

After set code show way, users need to set the corresponding format and use HCTPubPrintEditor to edit and download format to corresponding serial number.

After the right set, the screen will show corresponding code after weighing stable. For example, QR code in right, and format is right, the QR code will show as follow after weighing stable.

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 show will not show. If this time a user wants to see the Hi-Lo status, user can select

. At this time, the code in the left will change color following the Hi-Lo status. For example, yellow means lower than Lo.

16 Connect with the scan gun

16.1 Scan the goods code

Users can open the scan goods function in agent setting.

Then connect the scale with scan gun, 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 out

Users can open the scan goods and input function in agent setting.

The below of the goods bar of scale will show the scan input box.

Connect with the scan gun, scan the code, the scan input box will show the code which has been scanned, then can print out and store into the scale.
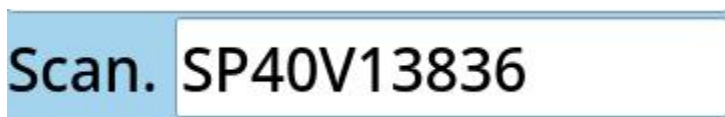
This scan function does not need to click the scan input box, even if the input box is in item bar, the content of scan can show in the scan input box.

17   User defined function

Users can open multi manual input boxes in agent setting.

And can user define the name and type of the input box, include the text box and choose box.

As follows:

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

Behind the input box is text input, users also can press the drop-down box

to choose the type of the value.

Group is also the use defined name.

The input box here all are choose boxes, user just can choose, cannot input, in order to avoid user input wrong value.

The value which users can chose is set in user setting.

18 Power on zero

Under the default settings, scale will back to zero automatically. The default zero range is +-20% of last calibration zero. If the range is exceeded this range, the scale will not back to zero and use the last calibration zero value as current zero value.

If a user wants to show the last weight value when power is on, please set the power on zero range to 0 in user setting.

Power zero range 20 ▾ %

Power zero range	0	%
Manual zero range	1	%
Auto sleep time	2	S
Battery type	L 3	tic
Open auto avera	4	t)
Stable to zero	10	
Auto M+	20	
Goods name sho	50	ie
Save	100	os
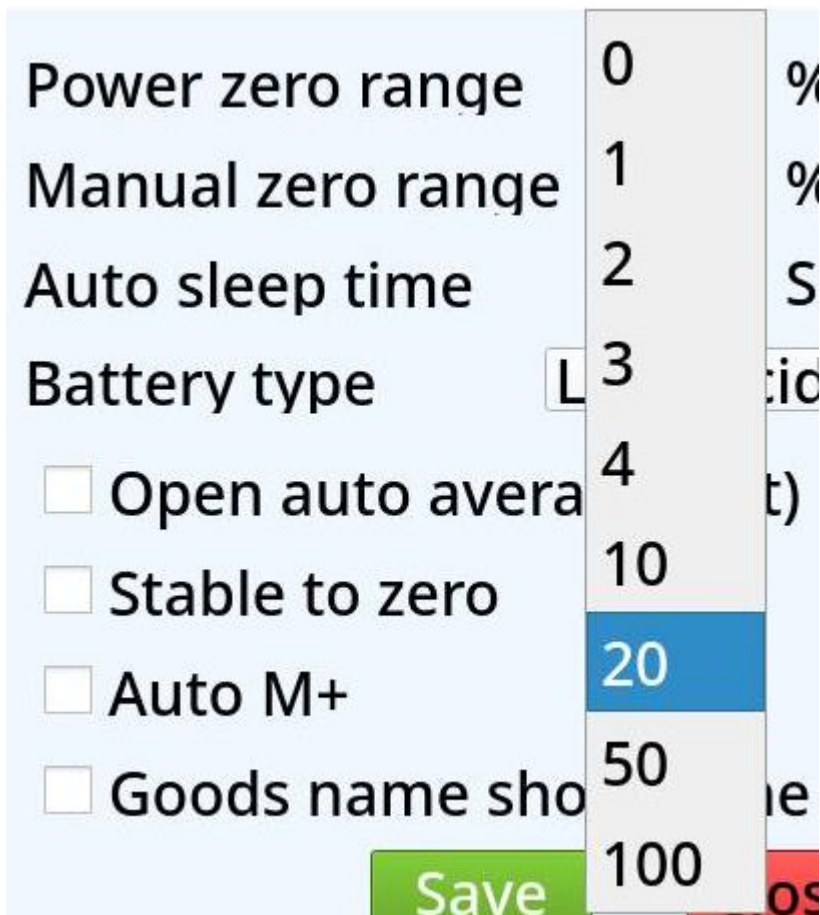
19 zero

Zero

When the pan is empty, press **Zero** key to let the display weight value back to zero. If the scale is broken or weights 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 4 ▾ %

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 PreTare 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 **Tare** 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

☐ **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.

21 Choose units

If the units are not the suitable one, press **Unit** key to choose

the right units. The new units will be stored after the correct power is off.
The units which can be used are set in the user settings.

22 Counting function (Option)

22.1 Users need to open counting function is agent setting.

The weighing interface will become counting mode after counting function been opened.
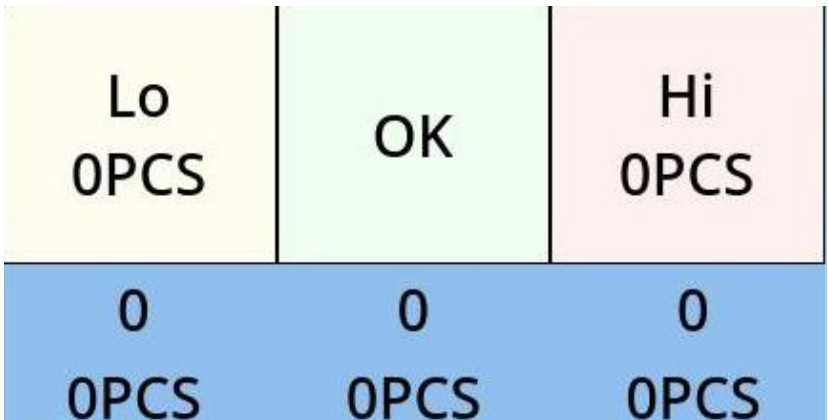
22.2 Unit weight of goods is known

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

22.3 Common counting function

Press the unit weight bar, counting function window will pop-up.

Count			
1	2	3	<-
4	5	6	PCS Set
7	8	9	UW Set
.	0	Clear	Close
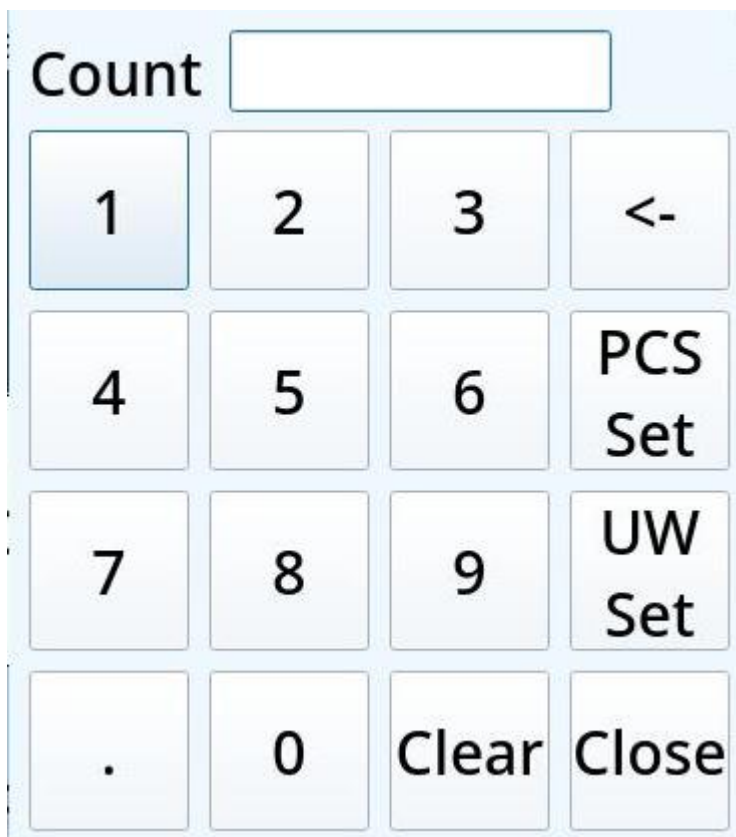
22.3.1 Unit weight is known

Input the known weight of weights, press **UW Set**, the quantity display will show the counts. At this time, the scale enters into the counting mode automatically.

22.3.2 Unit weight is unknown

Put the sample weights on the pan, use the number keys to

PCS Set

input the counts of sample, 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

Goods 🔍

Screw

23.1.1 Common goods select mode

Press 🔍 will pop up item choose box, press the right goods, then

press OK key to back to weighing interface, the item will show in the item bar.

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

23.1.2 Quickly call out goods mode

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

Then press the backspace key 输入完成后点击键盘的回车键

, the item name will show in the item bar.

23.1.3 In item choose interface can edit item directly.

Add	Edit	Export	Delete	Delete all		Search	OK	Close

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

23.1.4 Add

Can add goods.

The add new item window will pop up after press.

Number used to manage goods. If the scan goods function has been opened of scan gun, the code which been scanned is item number.

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 tare weight of packed item. If item does not have, can rest to blank or set to 0.

Hi limit is the allow high limit of goods when Hi-Lo function is opened. In counting mode, the unit is PCS, otherwise it will be the same unit as capacity and division unit which are set in Dealer setting.

Weight stock is the stock weight which already has goods.

quantity stock is the stock quantity which already have of goods.

Weight stock and quantity stock will be shown when user opened the stock manage function in agent setting.

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

The user can open 2 user defined variables function in agent setting, like color and so on.

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

23.1.5 edit

Choose the goods which need to be edited, press [Edit]
can do item edit.

Item edit interface as follows:

Edit				
Num. 1233		Name Screw		
Spec 4x8		Remark		
UW 0.000	g	Tare 0.000		kg
Hi 0.000	PCS	Lo 0.000		PCS
Stock 0.062	kg	PCS stock 0		PCS
A-B 0.000	B-C 0.000	C-D 0.000	D-E 0.000	
OK		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 edited, press [Edit] to edit the item information.

23.1.7 Export

Insert the U disk, user can export the current data into the U disk. This file can be opened by Excel.

After the press will come out follow window.

USB disk choice will appear after U disk been inserted.

Export file

/mnt

Root directory.

Superior directory..

USB disk

File name Goods

OK   Cancel
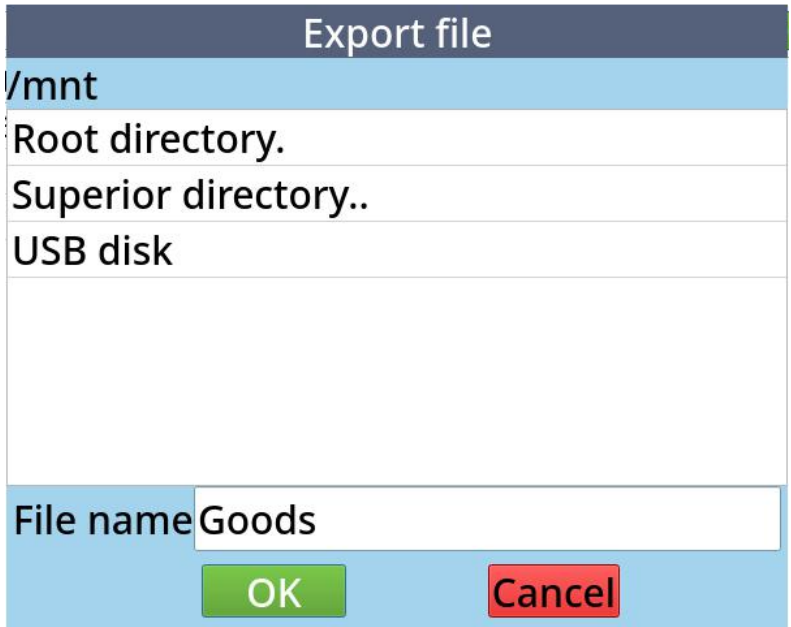
Press confirm will point out export success, after this step then can remove the U disk.

23.1.8 Search

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

For example, input screw,

Screw   Search

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

Number	Name	Spec	Remark
1 1233	Screw	4x8	

23.1.9 OK

Select one item, press ![OK], the interface will back to
common mode and show this item.

24 Print

press ![Print] can print out the 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.
If the store is failed, please check the related settings.

25 Check the record

Press ![Report] can check the print record, see follow picture:

Report	Day	Month	statistics	Day	Month	Close

| 08-10-2021 | - | 08-10-2021 | 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	
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	

Report interface can choose standard report, daily report, monthly report, and standard statistics, daily statistics, monthly statistics and so on mode. Report mode is the original print record.

The statistics mode, 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		🔍

In standard report mode, users can choose date range, press
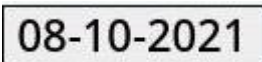
08-10-2021 will pop up the date selection window.

←	October 2021					→
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

OK   Cancel
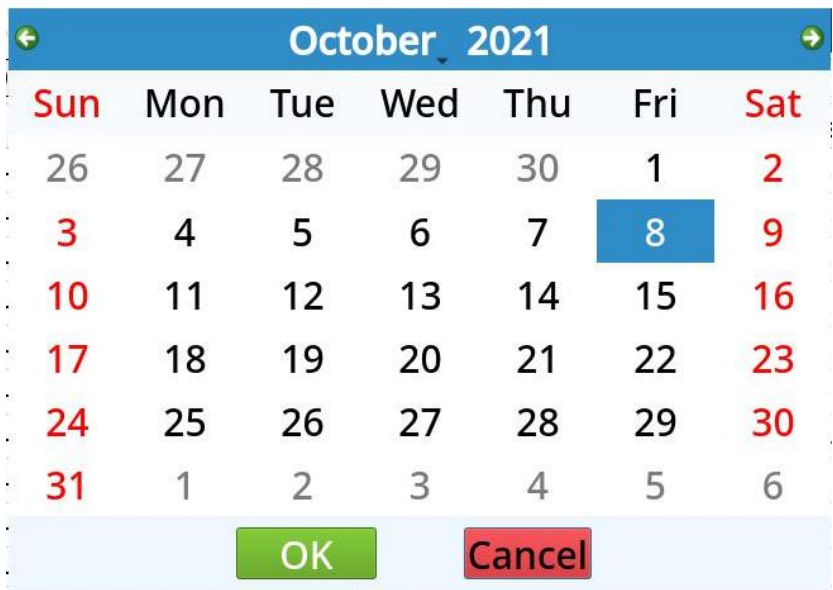
After selection, press OK to confirm.

After the start date and end date are selected, need to 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, it just has one date choose box, data bar just shows one day's data which has been chosen. Press

Today can back to today quickly.

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	<	This 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

This Mo 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, can choose the start date and stop date.

Report	Day	Month	Statistics	Day

08-10-2021	-	08-10-2021	Export	

☑ Goods ☑ HiLo ☐ Client ☐ Order ☐ Group ☐ In/Out

	Goods	Weight	Number	Results	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 do not have delete function, because it shows not original data, but according to certain rules of statistic data.

25.4.1 For example, statistics by item, user can choose item then press to refresh.

☑ Goods ☐ HiLo ☐ Client ☐ Order ☐ Group ☐ 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.

25.4.2 Statistics by Hi-Lo

☑ Goods ☑ HiLo ☐ Client ☐ Order ☐ Group

	Goods	Weight	Number	Results	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.

25.4.3 If the user opened the user defined variable function, then can do statistics follow user defined variable.

☑ Goods ☑ HiLo ☑ Operator ☐ Client ☐ Order ☑ Group

	Goods	Weight	Tare	Results	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	

25.4.4 After choose the statistical rule, users need to press to refresh the data.

25.5 daily statistics

daily statistics are different to standard statistics, it just shows one day's date as follow:

Report	Day	Month	Statistics	Day	Month	Close
08-10-2021	Today	Export				Q

✓ Goods	✓ HiLo	☐ Client	☐ Order	☐ Group	☐ 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, data bar just shows one day's data which has been chosen. Press

 can back to current date quickly.

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

25.6 Monthly statistics

Monthly statistics are different from standard statistics, it just shows

one month's data, the interface as follows:

Report	Day	Month	Statistics	Day	Month

2021-10	<	This Mor	>	Export	

✓ Goods ✓ HiLo ☐ Client ☐ Order ☐ Group ☐ In/Out

	Goods	Weight	Number	Results	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

This Mor 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 show mode, use can choose the date which need to re print,

then press **Reprint** key can re print the stored data.

25.8 Export

Insert the U disk, user can report the current showing data to U disk, open by excel.

Report and statistics mode all can export data.

Export file		
/mnt		
Root directory.		
Superior directory..		
USB disk		
File nar 08-10-2021		
	OK	Cancel
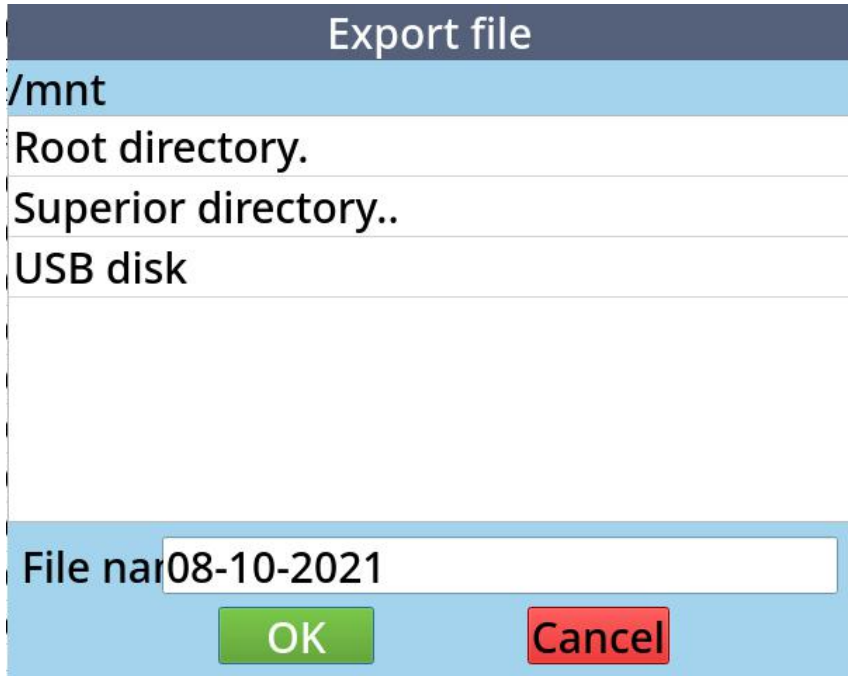
Press ok will inform export succeed, then can remove the U disk.

25.9   delete

Choose the item, press **Delete**, user can delete the corresponding item. This deleted data cannot be recovered.
In statistics mode, users cannot do delete.

25.10 Delete all

Press **Delete all** about 3 seconds, the delete all data
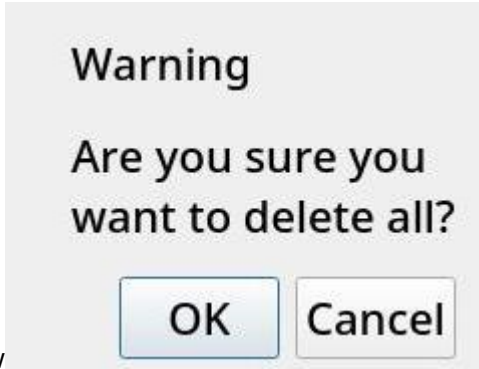
window will pop up.
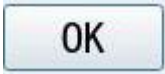
Press will delete all data, include all stored data, not current showing data, please use with caution.

25.11 searching

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

the key words into which want to search

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

At the same time, users can choose the date range too.

For example, input wire, the showing as follows:

Report	Day	Month	Statistics	Day	Month	Close
08-10-2021 - 08-10-2021	Reprint	Export	Delete	Delete all	Screw	🔍

	Date	Time	Id	Goods	Weight kg	Tare	Gross	Hi
1	08-10-20...	09:46:10	19	Screw	0.186	0.000	0.186	3.000
2	08-10-20...	09:46:11	20	Screw	0.186	0.000	0.186	3.000
3	08-10-20...	09:46:12	21	Screw	0.186	0.000	0.186	3.000
4	08-10-20...	09:56:30	22	Screw	0.062	0.000	0.062	0.000
5	08-10-20...	10:01:11	22	Screw	0.062	0.000	0.062	0.000
6	08-10-20...	11:01:57	22	Screw	0.000	0.000	0.000	0.000
7	08-10-20...	11:01:57	23	Screw	0.000	0.000	0.000	0.000

26　Parameter setting

In weighing interface press **Menu** will pop up setting menu.

Press **Settings** can enter into parameter setting. The window is as follows:

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

26.1   Unit setting

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

Above is unit switch setting. Tick the unit which needs to use. Remove the tick for the unit which does not need to be used. For example, users need to use kg, tick it. Users do not need to use g, remove the tick in front of it.

Just the unit which ticked can be chose by **Unit** key.

Unit weight unit is the unit which unit weight use, default unit is g, user can it change when needed.

☐ tl.J   ☐

kg

UW unit   g

t

lb

oz

ct
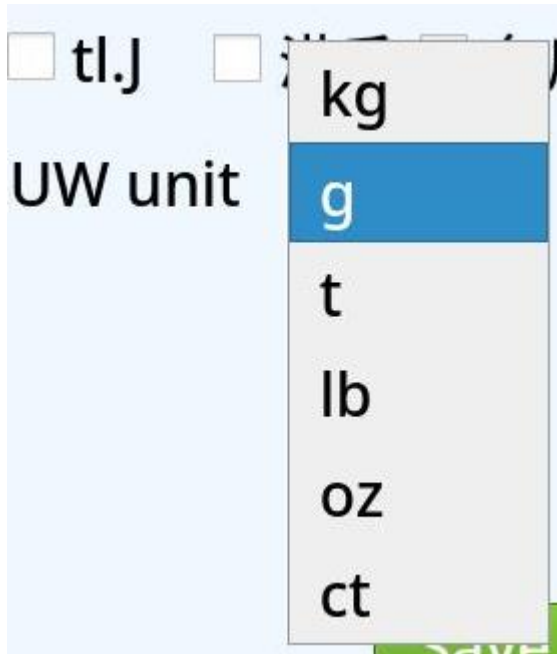
26.2 Function setting

Press **Function** the function setting interface will show out, as follow:

26.2.1 brightness

Slide the slider to set the brightness of the back light. The brightness of backlight can change.

26.2.2 Automatic sleep time

This function is used to set the length of time to control the back light turns dark. For example, this parameter is set to 12, it means the back light turns dark after 12s. But it needs the indicator do not operate and the weight value does not change. If the indicator operated or the weight value changed, the back light will recover. If it set to OFF, it means the back light will keep the set brightness and never become dark.

The setting details are as follows:

Power zero range | OFF |
Manual zero range | 6 |
Auto sleep time | 12 |
Battery type   L | 18 | :i
   Open auto avera | 24 | t
   Stable to zero | 30 |
   Auto M+ | 36 |
   Goods name sho | 42 |
             Save | 48 | c
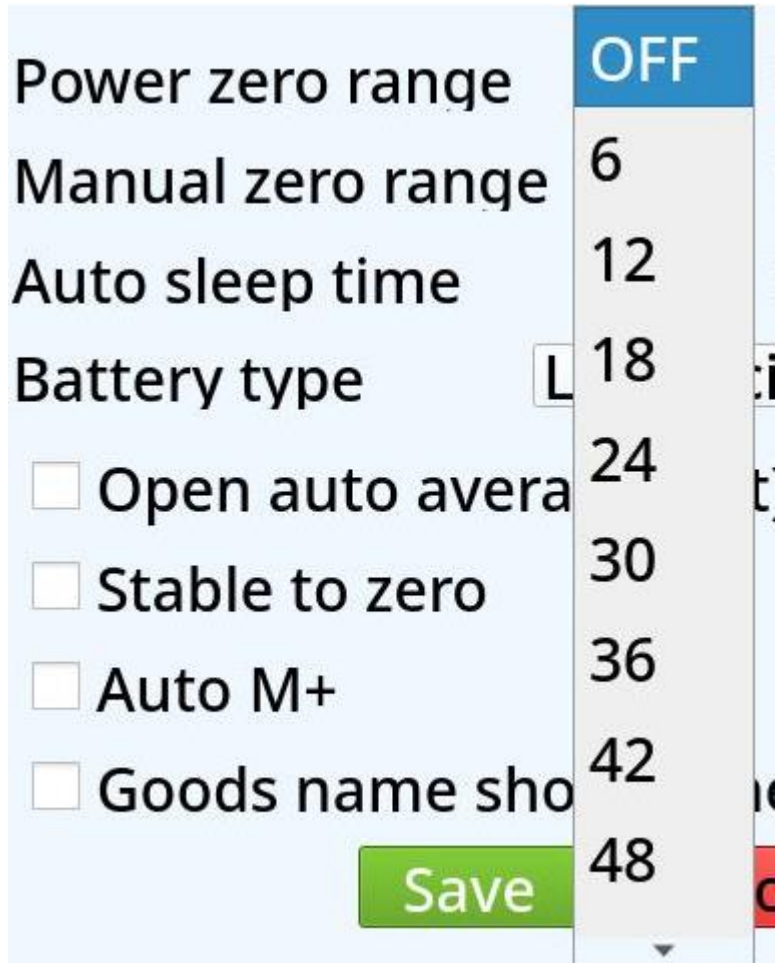
26.2.3 power on zero range

It is the difference between power on zero and calibration zero range, that scale can allow to zero. The default difference is 20%.

More details please refer to point 18.

26.2.4 Manual zero range

It is the difference between manual zero and power on zero, that scale can allow to zero. In this range, manual zero is

effective. 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 the add weight in follow range：in 10%-200% of last weight value. For example, the last quantity in pan is 100 pieces, add 10-200 pieces. Scale will count by new quantity and weight, at this time, the scale will beep once, and the unit weight will change.

This function will rise by counting accuracy when unit weight is unknown. But please note, every added quantity must be between 10%-200% of last weighing.

26.2.6 Tare and zero after stable

☐ Stable to zero

It means user can tare and zero after weighing is stable, the stable sign need appear.

26.2.7 Automatic add up

☐ Auto M+

Open is function, after weighing is stable, scale will add up current weight and quantity.

Note: next add up require the weight value back to zero, it means user need remove former weights from the pan, after scale stable, then put on new weights, scale stable, then add up automatically.

Users can open automatic add up function in agent setting.

26.3 Hi-Lo function

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. The showing of Hi-Lo status and the replay status will not be affected.

26.3.1.2 Alarm when weighing value is negative 允许负数报警

Tick, it means scale will alarm when weighing value is negative.

26.3.1.3 Alarm when weighing value is zero

Tick, it means scale will alarm when weighing value is zero.

26.3.1.4 Alarm when weighing value is stable

Tick, it means scale will alarm when weighing value is stable. If scale is not stable, the alarm will not work. Hi-Lo status, beep, replay all been closed, rework after scale is stable.

26.4 Variable edit

If the user opened the user defined variable function (point 17user

defined input function), 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			

Input the content into the variable box, press **Add**, the added content will show under the box.

Client
Xiaomi

Add	Delete

Xiaomi
Huawei

After add all, the input box will include the content which added, press will show as follows:

26.5 Restore and back up

Press will show restore and back up interface as follows:

26.5.1 restore

Restore data needs insert USB disk, then press restore will create restore directories and files in USB disk automatically. After restore succeed, the message "restore succeed" will pop up.

26.5.2 Back up

Insert the USB disk which has restore files, press back up, the data of scale will back up to the data which restored, include settings and stored data.

27 Communication

27.1 setting

Press , then press in the pop-up

window can enter into communication setting as follow:

27.2 Serial port1, Serial port2, Serial port3

The settings for 3 serial ports are the same.

With built-in printer model, serial port3 name is built-in printer, its setting is the same as common serial port.

With blue-tooth model, serial port3 name is blue-tooth, its setting is different than common serial port.

Interface as follows:

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

27.2.1 Mode

Include close, continues sending mode, stable sending mode, Response mode, key sending mode, print mode.

Mode	Close
	Continuous
Baud	Stable
	Response
Protocol	Manually
Paper cut	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, please check details in communication manual.

27.2.1.1.3   Stable sending mode

It means scale will sending weighing data after weighing stable. The data format is the same as continues sending mode.

27.2.1.1.4   response mode

It means scale will not send data except get order. Please check the details in communication manual.

27.2.1.1.5   Manual sending mode

In weighing mode, scale will send one group of data after press print key. The data format is the same as continues sending mode.

27.2.1.1.6   Print mode

It means the different mode of printer connection. The print format is the corresponding print format.

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 ray needs the same as PC or printer's baud rate, then can communicate normally.

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

27.2.2 Protocol

When communication format is set to print mode, this parameter is print format.

0-4 are built-in printer's print format.5-10 are user defined print format. Use PC or cellphone download print format to the scale, the serial number 1 refers to here's protocol 5, and so on.

27.2.3 Paper cut

It means when users use the printer which has cut paper function, can set if need paper cut here.

Paper cut	Close
	Normal
	GPXXXX

Set to close means no need to cut.

Set to normal means connected with common printer with cut paper function, need cut paper after print.

Set to GpXXXX means connected with Gprinter with cut paper function, need cut paper after print.

27.3   Bluetooth

Here's bluetooth is the blue-tooth of host mode, usually connect with blue-tooth printer.

Bluetooth

Press   the Bluetooth setting interface will show. As follows:

The left upside is blue-tooth switch. It needs open and the right side already shown the scale's blue-tooth mac address, the blue-tooth function can be used.

Open or close blue-tooth need press save and restart the scale can be used.

27.3.1 Data protocol

Communication is the print format which connects with blue-tooth 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 blue-tooth equipment

Press connect to Bluetooth equipment can pop up the blue-tooth connection interface as follows:

| Search | Stop search | Connection | | Close |

27.3.3.1 search

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

Users can search for blue-tooth 2.0 and Blue-tooth 4.0(BLE)

```
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
```

equipment.

Blue-tooth name followed with [SPP] is blue-tooth 2.0equipment.

Blue-tooth name followed with [BLE] is blue-tooth 4.0equipment.

Blue-tooth name followed with [paired] is blue-tooth 2.0equipment and paired already.

27.3.3.2 Stop search

Press **Stop search** to stop searching for blue-tooth equipment.

27.3.3.3 connect

Choose the equipment, which need to be connected, press

Connection can connect with the scale.

Please note the equipment needs to be the one which can be connected with. Here is refer to blue-tooth printer in normal.

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

Please enter PIN [   ]

Usually for 0000 or 1234

OK   Cancel

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

If the equipment is already paired or the equipment is blue-tooth 4.0[BLE], users no need to run pairing, press connect, 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 blue-tooth setting window.

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

27.3.3.4   close

Close the serial port of blue-tooth equipment.

27.3.4 disconnect

After press the connected equipment will cut down connection.

If the blue-tooth equipment can connect with one host, it needs cut

down the connection first, then connect to another host.

27.4 Internet connection

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

will appear. Press it will pop up
internet connection window.

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

Press search, if there is a Wi-Fi hot-point around, the below list
will show the related hot-point name and signal strength.

Input the password, press will start to
connect.

If connect is succeed, here will show:

If connect failed, please press again.

And also can restart scale, if the sign of Wi-Fi change to , it means the connect succeed.

If users need to set static IP, please tick

□ Static IP .

Enter the IP address, sub-net mask, and default gateway in the following 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:

Ethernet module plugs in Internet, the network is automatically connected, usually an Ethernet interface on said it

had connection (generally for the green light or orange light), there is another light flash means data transmission (generally for yellow light).

Therefore, user can set only static IP address. The specific Settings are the same as those of the Wi-Fi version.

27.5   Network sever

The network server requires other devices such as computers to actively connect to the electronic scale.

Server

Press   will 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, the scale does 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.

27.5.2 Server Protocols

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

Please check details 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, which corresponds to the local IP address and server port here.

27.6 Network client

Network clients are the scale do actively connect to other servers, such as a computer create a network server, scale do actively connect to the computer to create the network server.

Client

Press   will show network client interface as follows:

Client protocol	Continuous ▾
Client	5 ▾
Connect IP		Port 55556
Heartbeat interv Close ▾ S
Close ▾ 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 does 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 format. When set to print mode, this parameter is 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 that created the network server.

27.6.4 Port

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

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, but the scale and the network server cannot sense it immediately.

Or some servers will disconnect when they have not received data for a period of time. In this case, scales may not be able to sense it immediately

Or some server software shuts down by mistake, and the network connection is disconnected, but the scale does not immediately sense it.

In order to guarantee the stability of the connection, the network client mode can open the heart package, timing send a set of data to the server, in order to keep the connection, the data content generally for hexadecimal 02, hexadecimal 02 means the starting of data of the scale default communication protocol, but there is no substance in the packet, so the server client can ignore this data, also can send the package back to the scale.

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 for several times, the network connection may be disconnected, and the electronic scale will reconnect to the configured server.

If user does not use it, user can close it. If user needs to start it, user can set the number of times according to the network situation. 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 and reconnects to the server.

27.7 Print setting

Press **Print setup** will show print setting interface as follows:

Print mode	Manual	▾	None	▾	Hilo print
Control	Unlimited ▾		☐ 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

Manual

Automatic

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

27.7.1.1 Manual Print

Press print key will print once.

27.7.1.2 Automatically print means scale will print once after weighing stable. Next print needs remove the weight from then pan, and the weighing value back to zero, then put on weights, after stable it will print automatically.

27.7.1.3 Store weighing data been control by print mode too, it will store once when print once.

27.7.2 Qualified print

Qualified print means when user opened the Hi-Lo function, weight value or quantity is in qualified range, print will be

allowed. Manual print and automatically printer all been control by this setting.
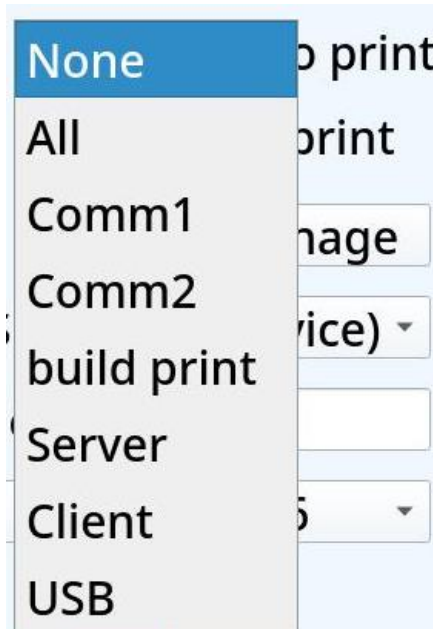
User can set to:

- None means print and store do not control by Hi-Lo function.
- All means, all ports which are set to print mode need weight value or quantity is in qualified range, then can print, include store data.
- Other settings, such as serial port1, it means that port which is set to print mode need weight value or quantity is in qualified range, then can print. Other serial ports do not have affect, include store data.

27.7.3 Print control

Control	Unlimited	
USB prot	Back zero	
Cut pape	Weight change	

- Unlimited means whatever the weight value backed to zero or not, changed or not, scale can do print.
- Weight value back to zero means before next print needs remove all the weights, wait for the weight value back to zero, and put weights on the pan, then can print.
- Weight change means next print no need to wait for weight value back to zero, just weight value changed, then can print.
- In some cases of fast weighing, it is impossible to place a new item before the last weight value is returned to 0, so it cannot be set to weight value back to 0 then print but can only be set to weight value changed or set to unlimited.

27.7.4 Tare after print

☐ Tare after print

This function means that tare is automatically after each printing. This function can be used for batching or incremental weighing functions. For example, put a container, press zero, and then add material to the container, and then print automatically or manually, and then automatically tare, and the net weight becomes 0, and then continue to add material to the container, and then print automatically or manually. At this time, the 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

USB protocol 5

It means the print protocol used when connected with the USB printer.

The details are the same as serial port setting.

27.7.6 Format manage

Press **Format manage** will pop up the format manage interface. 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. If user can do deletion, it means that the format of this number is in the scale. 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 disk. Note if the format is 5, the name of the printed format in the USB flash drive should be 0. Bin, which is 6. The print format name should be 1.bin. And so on.

  The print format file should be placed in the root directory of the USB drive, and this file 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. If user can do deletion, it means that the format of this number is in the scale. 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.

  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 disk. Note if the format is 5, the name of the printed format in the USB flash drive should be 10. Bin, which is 6. The print format name should be 11.bin. And so on.

27.7.7 Cut paper

It is the cut paper function of USB printer.

27.7.8 USB mode

Host(to device)
Slave(to computer)
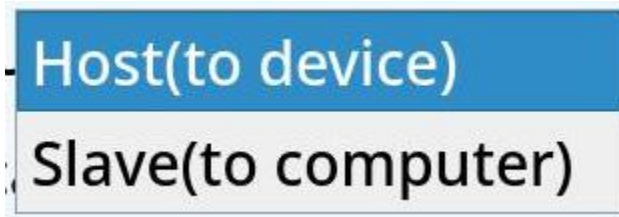
User can set it to host or slave.

Scale includes small USB port (connected to the PC) and large USB port (connected to the equipment), but some models can only use one port at the same time, and you need to set which port to use here.

- Host (with equipment)

  It means use the large USB port, with it, user can connect USB disk, scanning gun, 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 scanning gun are in the agent settings, user can modify by contacting the dealer.

- Slave machine (with PC)

  It means use small USB port, through the USB port can connect PC. After connecting to PC, the PC needs to install the corresponding drive, most of the PC will automatically install, It will generate a serial port after the installation is completed. The serial port is response mode, users can read and write data through the serial port and also can download and read the item data and weighing record and so on.

27.7.9 Scale address

Set the address used for communication of scale. It is mainly used to distinguish scales in multi-machine communication. And

distinguish scales when submit data of network connections.

27.7.10   Scale ID

The ID of the scale can be set. It is mainly used to distinguish the electronic scale when submitting data through network connection.

The address of the scale can only be a number, and the ID can be a string, which can be used to distinguish the electronic scale. The specific distinction can be selected according to the requirements of the server.

27.7.11   barcode

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

28   Time setting

Press **Menu**, then press **Set time** in the pop-up window can enter into time setting as follow:

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 Agent setting

Press , then press in pup up window. Input the password then can enter into the agent setting.

Agent settings can only be modified by the dealer. To configure some optional functions, contact the dealer.

30 update

Press ,then press in pup up window. Then scale start checking the update file in USB disk.
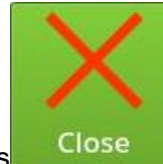
This function requires placing the update file in the root directory of the U disk and inserting it into the scale.

If the U disk 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

If user wants to close the menu, can press to close. This key just uses to close the menu, it will not close the scale.

32 User management (option)

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

32.1 Users manage

Press , then press in pop up window can enter into user edit as follows:

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

Press it can pop up the add new user window:

Add user	
Name	Password

☐ Allow users   ☐ Allow Settings
☐ Allows Goods   ☐ Allows records
☐ Allows UW   ☐ Allow HiLo

OK   Cancel

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

● Allows edit users

It means whether this user has manage user permissions.

● allows set parameter settings

It means whether the user has the permission to set user parameters, communication settings, and time settings.

● allows editing items

It means whether the 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

It means whether the 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
  It means whether the 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

It means whether 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. The operator is removed the step of

logging in.
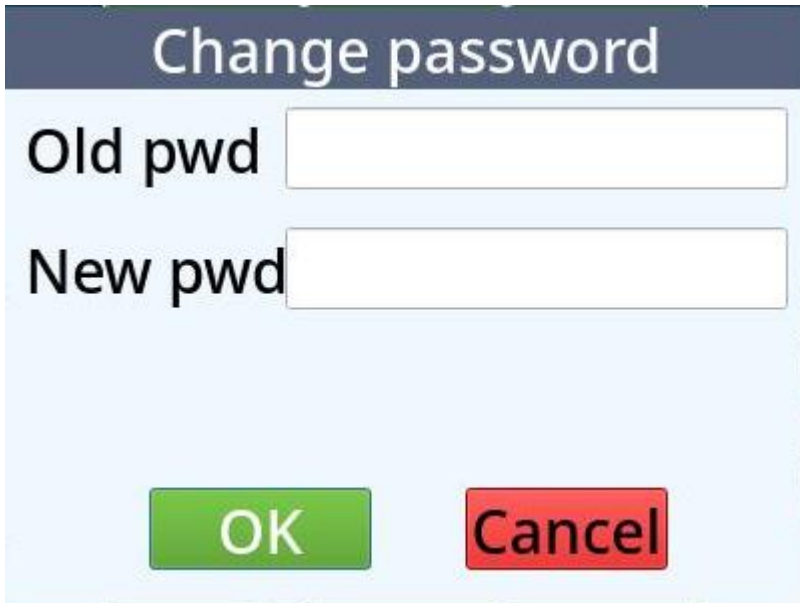
32.1.5 Clear

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

Press , then press in pop up window can enter into the password modify.

Note: This button cannot be clicked if the user management function is not enabled in agent 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. And the user lo in interface will pop up to re-enter.

Sometimes due to the access control need to switch the user can use this feature.

Or use this function to switch users when different employees operate.

Users who log in will be saved in the weighing record at the same time for query.

Users can 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

User   Max=6 kg d=0.002 kg

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, use this software can read and write material information, and variable information, can also read the weighing record.

Interface as follows:
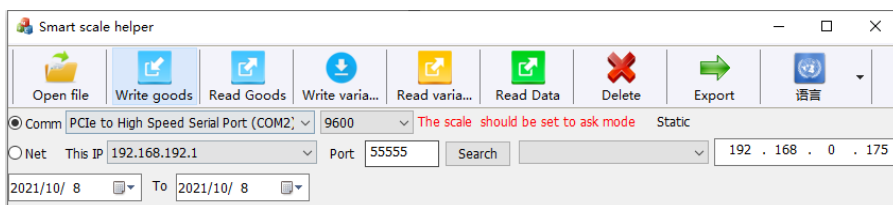
- open file

  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.

- The mode of the scale connecting to PC should be set to response mode. For example, when connecting through serial port 1, the mode of serial port 1 in the communication settings of the scale should be set to response mode.

- 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.

- When reading and writing variable values, all variable values are together. The variable number in the variable format corresponds to the serial number of the variable opened in agent settings. For example, the variable1's number here is 1.

Id	number	variables
1	1	Huawei
2	1	Xiaomi
3	2	001
4	2	003
5	2	002
6	2	li
7	3	01
8	3	02
9	3	03

- 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
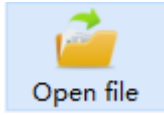
press to open the edited file.

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 it is 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 equipment 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 agent 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 agent settings
- Set the upper and lower limits of each item and the sorting value in the item setting or manually set the sorting value in the weighing interface, 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 scanning gun
- Set the barcode or QR code can be shown in the main interface in communication setting.
- Use HCTPubPrintEditor to edit the format according to the data format scanned by the scanner gun, and the printer selects the data assistant. Content is generally automatic length of net weight; units can be selected according to demand.
- Download format to scale. Normally, download serial numbers should not conflict with other print formats. For example, download serial numbers can be used for 2.
- Set the format of code showing in communication setting. If user chooses download number 2 in the previous point, set protocol 6 here, and so on.
- After setting correctly, when the weight is stable, the corresponding bar code will be shown on the weighing interface. At this time, the scanning gun 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 **✓ Open HiLo** in user parameter settings. The color of the barcode or qrcode 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 after one day weighing
- Open the subtotal function in an agent 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 **M+ print** can print the total quantity and weight.
- press **MC** to clear subtotals after printing.
- More details please check point 12.

37.5 Many Warehouses do not have ERP software, using electronic scales for simple inventory management
- Open stock manage function in agent setting.
- Edit the current weight and quantity stock for each of the products in goods management.

- In the main interface, select the current operate is 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 Employees produce according to orders, and finally count the workload of employees

- Users can set a user for each employee by 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. In this way, the corresponding variable setting should be enabled in the agent setting, and the variable type should be set as option, and the name or number of each employee should be added in the variable setting of user parameter setting.
  More details please check point 17.
- The user can add usernames or corresponding custom variable values in the print format.
- 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, so that only the weighing record of a certain employee can be shown.
- In the statistics page, users can choose to collect statistics by user or corresponding variable (employee) and export statistics.
- More details please check point 25.

37.7 Simple ingredients
- Open the Hi-Lo functions in agent setting first.
- Open the alarm output function in user parameter settings as required.
- Select relay output function as required.
- Open tare after print function in communications settings.

More details please check point 27.7.4.

37.8 Submit data through network or RS232 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 number, and the corresponding port protocol should be set to the corresponding value.

WARRANTY INFORMATION

Adam Equipment offers Limited Warranty (Parts and Labour) for the components failed due to defects in materials or workmanship. Warranty starts from the date of delivery.

During the warranty period, should any repairs be necessary, the purchaser must inform its supplier or Adam Equipment Company. The company or its authorized Technician reserves the right to repair or replace the components at any of its workshops depending on the severity of the problems. However, any freight involved in sending the faulty units or parts to the service center should be borne by the purchaser.

The warranty will cease to operate if the equipment is not returned in the original packaging and with correct documentation for a claim to be processed. All claims are at the sole discretion of Adam Equipment.

This warranty does not cover equipment where defects or poor performance is due to misuse, accidental damage, exposure to radioactive or corrosive materials, negligence, faulty installation, unauthorized modifications or attempted repair or failure to observe the requirements and recommendations as given in this User Manual. Additionally rechargeable batteries (where supplied) are not covered under warranty.

Repairs carried out under the warranty does not extend the warranty period. Components removed during the warranty repairs become the company property.

The statutory right of the purchaser is not affected by this warranty. The terms of this warranty is governed by the UK law. For complete details on Warranty Information, see the terms and conditions of sale available on our web-site.

WEEE 2012/19/EU
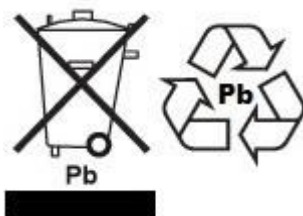
This device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements. Disposal of batteries (if fitted) must conform to local laws and restrictions.

Cet appareil ne peut être éliminé avec les déchets ménagers. L'élimination de la batterie doit être effectuée conformément aux lois et restrictions locales.

Dieses Gerät nicht mit dem Hausmüll entsorgt.

Dispositivo no puede ser desechado junto con los residuos domésticos

Dispositivo non può essere smaltito nei rifiuti domestici.

FCC / IC CLASS A DIGITAL DEVICE EMC VERIFICATION STATEMENT

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules and Canadian ICES-003/NMB-003 regulation. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CALIFORNIA PROPOSITION 65 - MANDATORY STATEMENT

WARNING: This product includes a sealed lead-acid battery which contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm

Adam Equipment products have been tested with and are always supplied with mains power adaptors which meet all legal requirements for the intended country or region of operation, including electrical safety, interference and energy efficiency. As we often update adaptor products to meet changing legislation it is not possible to refer to the exact model in this manual. Please contact us if you need specifications or safety information for your particular item. Do not attempt to connect or use an adaptor not supplied by us.

ADAM EQUIPMENT is an ISO 9001:2015 certified global company with more than 40 years' experience in the production and sale of electronic weighing equipment.

Adam products are predominantly designed for the Laboratory, Educational, Health and Fitness, Retail and Industrial Segments. The product range can be described as follows:

-Analytical and Precision Laboratory Balances

-Compact and Portable Balances

-High Capacity Balances

-Moisture analysers / balances

-Mechanical Scales

-Counting Scales

-Digital Weighing/Check-weighing Scales

-High performance Platform Scales

-Crane scales

-Mechanical and Digital Electronic Health and Fitness Scales

-Retail Scales for Price computing

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