

AVAVEIGH

COMMERCIAL SCALES

SOFTWARE MANUAL



Digital WiFi Price Computing Scales with Thermal Label Printer

334PCSP30
30 lb.

334PCSP30T
30 lb. w/ Tower

334PCSP60
60 lb.

334PCSP60T
60 lb. w/ Tower

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INTRODUCTION

ABOUT THIS MANUAL

This manual is mainly aimed to provide a comprehensive introduction of the installation method, major functions, and operation methods of this system so that you can further understand and flexibly use the system.

This manual mainly includes the following contents:

- (1) How to install the system
- (2) Introduction of the functions of the system

It must be noted that the pictures in this manual are just used as examples, which may be slightly different from what you see in actual operation. We believe that you can flexibly use the system to solve practical problems.

This software is applicable to various AvaWeigh label scale series,
334PCSP30 / 334PCSP30T / 334PCSP60 / 334PCSP60T.

DEFINITIONS

The specific terms used in the document are defined as follows:

SN	TERM	DEFINITION
1	Firmware	Slave computer program for label scale
2	C/S	C/S structure, generally known as the structure of client and server
3	Scale	Avaweigh's label scale

MANUAL WRITING CONVENTIONS

In order to make the manual more concise and clear, we use the following simple symbols or words to replace some text descriptions

SYMBOL	DESCRIPTION	EXAMPLE
[]	Button	"OK Button" = [OK]
{ }	Menu Item	"Click File Menu" = Click {File}
Click	Press left mouse button	"Click OK Button" = Click [OK]
Right Click	Select an object and press right mouse button	"Select My Documents folder and press right-button of mouse" = Right Click "My Documents"
Double Click	Press left mouse button twice	"Double click left-button of mouse to open "picture" file" = Double Click "Picture"
>>	Continuously select menus and their submenus	"Select {File}, then select {New} = Select {File} >> {New}
" "	File, Form, or Tab	"set function" page
[]	Item in form	[Port]
Retained	Feature is temporarily not to be used	(retained)

SYSTEM OVERVIEW

SYSTEM FUNCTIONS

The software is mainly used for the management of AvaWeigh label scales, downloading the information required by the scales (such as item, label, font, in order to weigh a specific item), calculating the corresponding price, and printing labels to complete the sales process of the item.

MODULE FEATURES:

Module 334PCSP30T:

Perform connection management for label scale, download and update PLU information (hotkey, item-related information), download label template and font, update firmware program, update/upload firmware-related parameters, upload transaction details, and view transaction-detail report.

Module PLU Manager:

Edit PLU information, import / export PLU information, and edit hotkey information.

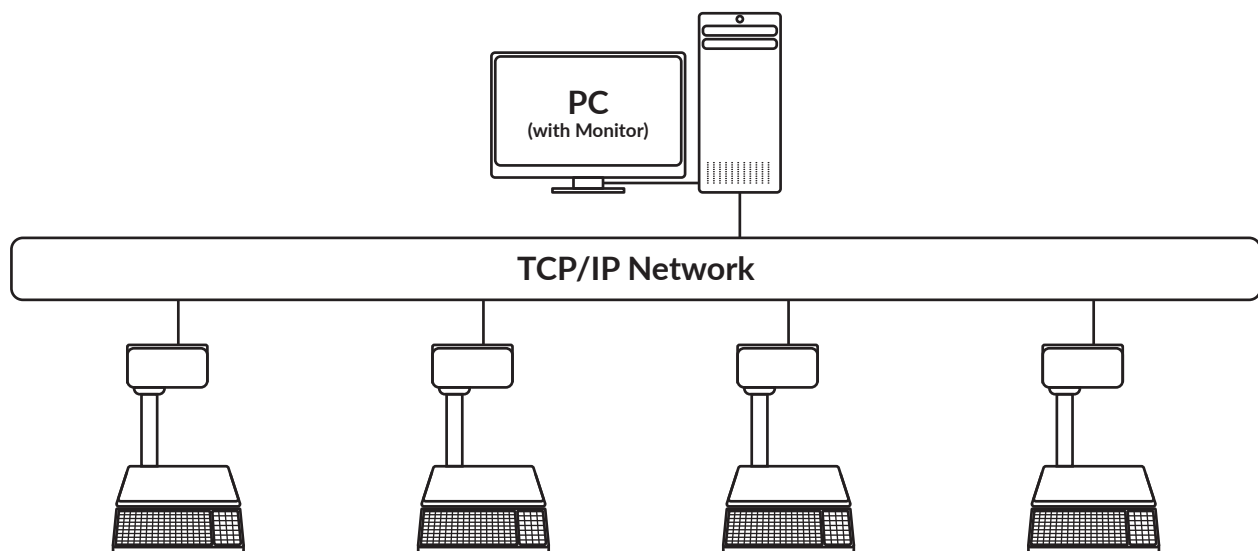
Module Label Editor:

Edit the label print template used for printing relevant weighing information of PLU.

OPERATING ENVIRONMENT

NETWORK ENVIRONMENT

C/S architecture is adopted.



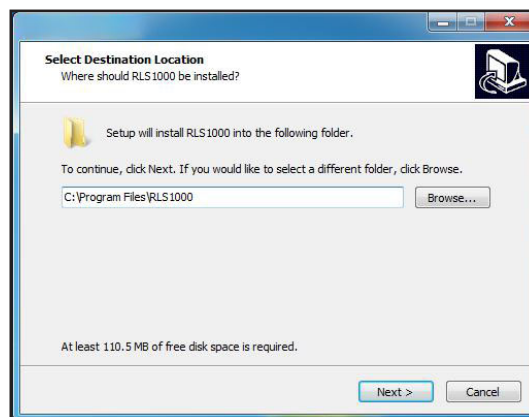
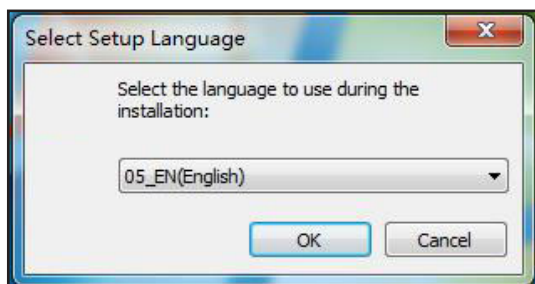
PC TERMINAL

HARDWARE PLATFORM	CPU: 1.5GHz or over
	Memory: 512MB or over
	Hard Disk: 50GB or over free space
OPERATING SYSTEM	Windows 7 or above

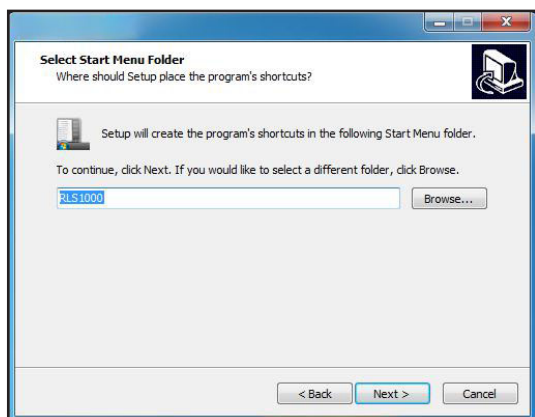
SYSTEM INSTALLATION

SOFTWARE INSTALLATION

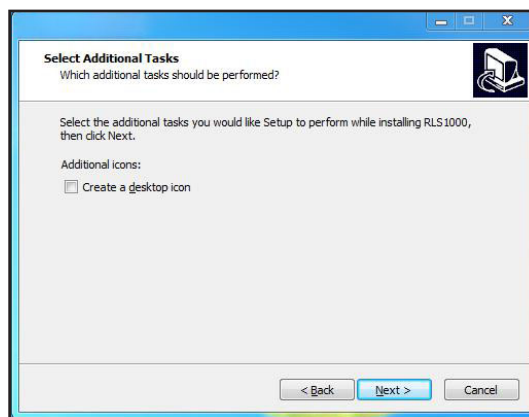
1. Run the installation package as the administrator and wait for the image to appear.
2. Select the language to use during the installation, click "OK".
3. Click "Next" to select a default installation path for the programs, such as moving files to C drive, or select "Browse" to choose another installation path, such as installing files to G drive.



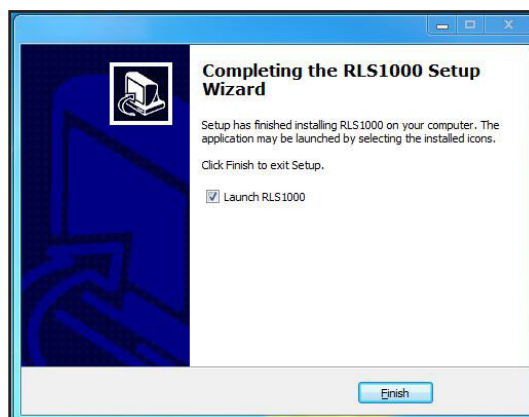
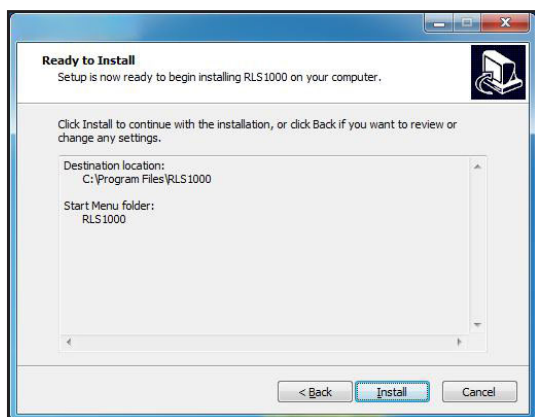
4. Click "Next".



5. Click "Next".



6. Click "Install" to continue to the next step, then "Start" to install.
7. Click "Finish" to conclude installation.
8. After installing, you can operate your scale.

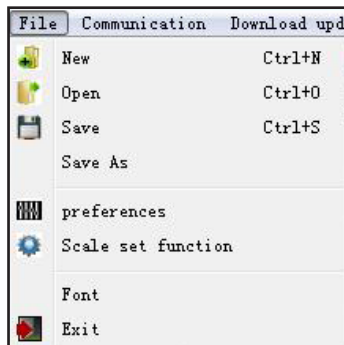


DESCRIPTION OF FUNCTION MODULES & INTERFACE DISPLAY

MODULE 334PCSP30T

This module is mainly used for performing connection management for the scale, downloading and updating PLU information (hotkey, item-related information), downloading label template, downloading font, updating firmware program, updating/uploading firmware-related parameters, uploading transaction details, and viewing transaction-detail report.

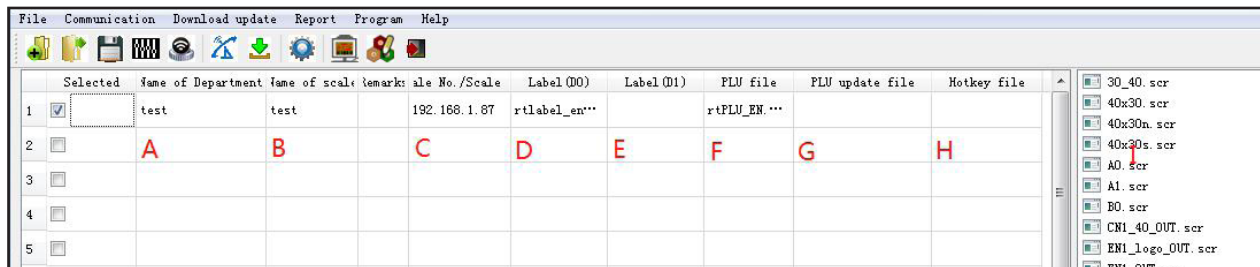
DESCRIPTION OF MODULE: {File}



{New}	New Connection List
{Open}	Open Existing Connection
{Save}	Save Current Change
{Save As}	Build New File to Save
{Preferences}	Set Relevant Parameters of the Software
{Scale Set Function}	Set Firmware Parameters
{Font}	Set the Font Displayed by the Software
{Exit}	Exit the Software

{New}

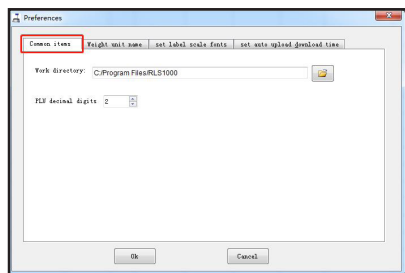
Open {File} >> {New}, or click the "Folder with a +" icon on the toolbar. You will see this image:



- Input the name of the label scale department.
- Input the name of the label scale.
- Input the IP add. of the label scale.
- Click D0 Label column, double click to select label in I area.
- Click D1 Label column, double click to select label in I area.
- (*TXP) Click PLU column, double click to select PLU in I area.
- (*TXP) Click PLU updated column, double click to select PLU in I area.
- (*KEY) Click Hotkey column, double click to select hotkey in I area.

{Preferences}

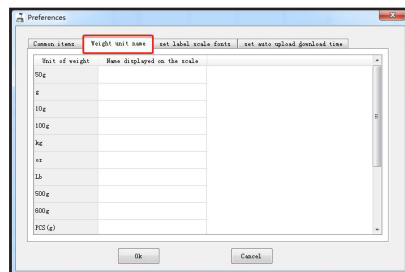
Open {File} >> {Preferences}, or click the "Equalizer" icon on the toolbar. You will see these images:



FUNCTIONS:

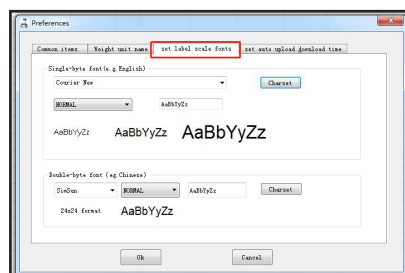
Work Directory: Connection management, PLU, save directory of label files

PLU decimal digits: The number of decimal digits for PLU display of unit price, ranging from 0 to 3



FUNCTION:

Display the name of PLU unit on the scale.

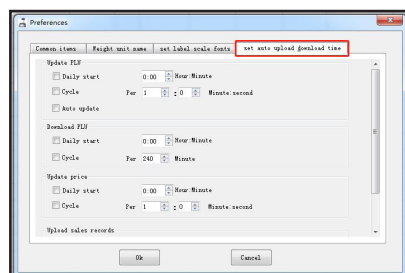


FUNCTION:

Set the font displayed on the scale screen and the font of label to be printed.

Single-byte Font: For single-byte fonts, fonts other than Chinese characters, such as English.

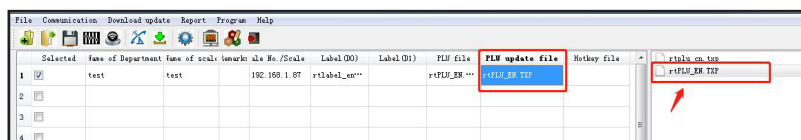
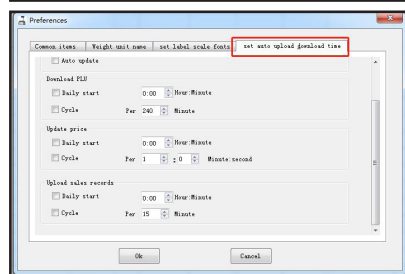
Double-byte Font: For double-byte fonts such as Chinese characters.



FUNCTION:

Set the time to automatically download PLU information and upload transaction details.

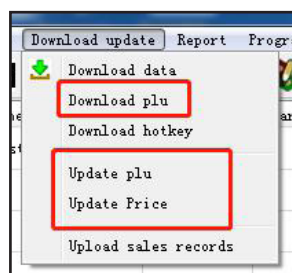
To automatically download PLU, "PLU update file" must be set first by clicking the location of the "PLU update file", then double clicking the file in the list on the right, as shown below:



NOTES:

Daily Start: The time for starting work every day

Cycle: The length of a whole process; specifically, a period of the same work



{Download PLU}	Download all PLU
{Update PLU}	Only updated PLU information will download
{Update Price}	Only the price will be updated
{Update sales records}	The sales record of the scale will upload

{Scale Set Function}

Open {File} >> {Scale Set Function}. You will see this image:

The screenshot shows the 'Scale set function' window with a sidebar on the left containing categories: Basic setting1, Basic setting2, Advanced function, Weight unit, Custom barcode, and Security. The main area contains various settings:

- Paper type: Label paper
- Barcode type: 0
- Date format: MMDDYY
- Decimal Digits: 0.00
- Rounding: 5
- Message 1: 0
- Hardware option: Long screen, new keyboard, exit and print
- Backlight brightness level: 0
- Sleep time(Minute): 0
- Default Label: D0
- Package tolerance: 5
- Year format: YY
- Total price precision: N.NN
- Barcode print method: Width int 2/5
- Message 2: 0
- Allow print zero weight: No print
- Copies: 0
- Enable by-weight & by-piece label type: ☐
- Enable by-weight & by-piece barcode type: ☐
- All by-weight label type:
- All by piece label type:
- All weighing barcode type: 0
- All by-piece barcode type: 0

Buttons at the bottom: Save, Export, Import, Upload, Download, Reset, Close.

{Basic Setting1}

- **Paper type:** Set the paper type: label paper, receipt paper, highly adhesive label paper
 - **Barcode type:** Set the barcode type 0-110
 - **Date format:** Set the date to format the scale
0: DDMMYY; 1: MMDDYY; 2: YYMMDD (D: Date; M: Month; Y: Year)
 - **Decimal digits:** Set the price using decimals (0:0; 1:0.0; 2:0.00; 3:0.000)
 - **Rounding:** Setting the rounding off points
1: 2.445->2.5 & 2.444->2.4
2-4: Reserved
5: 2.45->2.5 & 2.44->2.4 (default) Round and keep one decimal places
6: 2.46->2.5 & 2.45->2.4
7: 2.47->2.5 & 2.46->2.4
8: 2.48->2.5 & 2.47->2.4
9: 2.49->2.5 & 2.48->2.4
10: All round off
11: 1.00-1.24->1.00 & 1.25-1.74->1.50 & 1.75-2.0->2.00
12-19: 2.4X->2.5, X=(12-19)-10
20: 2.41->2.5
 - **Message 1:** Set Message 1 (0-10000)
 - **Message 2:** Set Message 2 (0-197)
- NOTE:** If you set Message 1 & Message in the {PLU Manager} >0, it will follow the PLU manager, otherwise it will follow the setting.

	Unit Price	Weight	Quantity type	Department	Tare	Shelf size	Package type	Package Weight	Tolerance (g)	Message 1	Message 2	Label	Disc
1	0.90	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	0
2	1.40	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	0
3	4.00	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	0
4	2.40	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	0
5	0.90	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	0

- **Hardware Option:** Set the scale type (keyboard)
 - 0: Long screen, old keyboard, exit and print
 - 1: Long screen, old keyboard, do not exit
 - 2: Long screen, new keyboard, exit and print (default)
 - 3: Long screen, new keyboard, do not exit
 - 4: Square Screen, old keyboard, exit and print
 - 5: Square screen, old keyboard, do not exit
 - 6: Square screen, new keyboard, exit and print
 - 7: Square screen, new keyboard, do not exit
- **Backlight brightness level:** Adjust the scale screen's brightness (0-4, 0: Full bright, 4: Darkest)
- **Copies:** How many copies will print
- **Default label:** 0: A0 1: A1 2: B0 3: B1 4: C0 5: C1 6: D0 7: D1 8: E0 9: E1.
If you did not set this in the PLU manager, the label type will be the same as the Default label.

	Unit Price	Weight	Quantity type	Department	Tare	Shelf time	Package type	Package Weight	Tolerance (%)	Message 1	Message 2	Label	Disc
1	0.90	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	
2	1.40	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	
3	4.00	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	
4	2.40	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	
5	0.50	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	
6	3.60	kg	0	21	0.000	15	Normal	0.000	0	0	0	0	

- **Package tolerance:** This is the package tolerance for the fixed weight function, (0-20%).
If you did not set in PLU manager, the package tolerance will be the same as the Default setting.

	Code	Barcode type	Unit Price	Weight	Quantity type	Department	Tare	Shelf time	Package type	Package Weight	Tolerance (%)	Message 1
1	1	2	0.90	kg	0	21	0.000	15	Normal	0.000	0	0
2	2	2	1.40	kg	0	21	0.000	15	Normal	0.000	0	0
3	3	2	4.00	kg	0	21	0.000	15	Normal	0.000	0	0
4	4	2	2.40	kg	0	21	0.000	15	Normal	0.000	0	0
5	5	2	0.50	kg	0	21	0.000	15	Normal	0.000	0	0
6	6	2	3.60	kg	0	21	0.000	15	Normal	0.000	0	0

- **Total price precision:** Total price precision (1: N. N0, 2: N. NN, 3: N.N, 4: N.0, 5: N.NN0)
For example: The total price is 1.456. If you choose 1, the price will be 1.50. If you choose 2, it will be 1.46. If you choose 3, it will be 1.5.
- **Barcode print method:**

0: Wide int 2/5	1: Narrow int 2/5	2: Ean128	3: Narrow Ean128
4: GS128	5: Code 39	6: UPC-A	7: UPC-E
- **Printing with zero weight:** When the weight is zero, 0: Manual print (press "enter" to print).
 - 1: No print
 - 2: Auto print
- **Sleep time (in minutes):** (0-200), 0: Scale goes into sleep mode
- **Enable by-weight and by-piece label type:**
 - All by-weight label type: Charge by weight label type
 - All by piece label type: Charge by piece label type
- **Enable by-weight and by-piece barcode type:**
 - All weighing barcode type: Charge by weight barcode type (1-99, 101-110)
 - All by-piece barcode type: Charge by piece barcode type (1-99, 101-110)

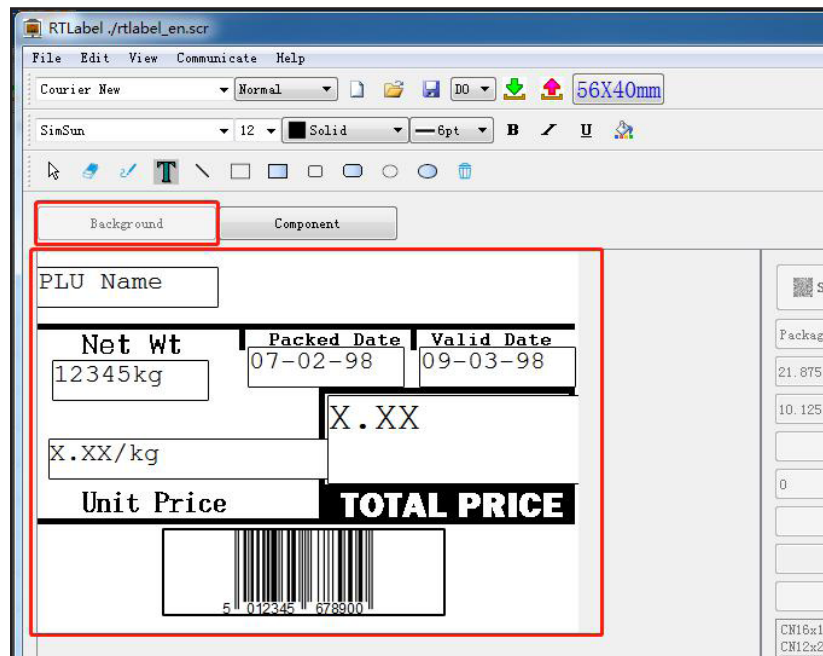
The screenshot shows a software window titled "Scale set function" with a sidebar on the left containing the following categories: Basic setting1, Basic setting2 (highlighted with a blue arrow), Advanced function, Weight unit, Custom barcode, and Security. The main area contains two columns of settings, each with a checkbox. The "Save" button at the bottom is highlighted with a blue border.

Category	Setting	Status
Basic setting1	Print weight unit of unit price	Checked
	Print discount mark line	Unchecked
	Print quantity	Unchecked
	Auto adjust PLU name	Unchecked
	Lock price	Unchecked
Basic setting2	Use new shelf time mode	Unchecked
	Use message 2	Unchecked
	No print EAN-13 barcode	Unchecked
	No print after price change	Unchecked
	Power-on paper picking detect by default	Checked
Advanced function	show unit in total price & unit price column	Unchecked
	Long press [Price] to enable permanently change price	Unchecked
	Close permanently change price	Unchecked
	Close print zero weight price label	Unchecked
	close print price Prefix on label	Unchecked
Weight unit	Label print month in English abbreviations	Unchecked
	Print custom ticket content	Unchecked
	Turn off display time	Unchecked
	Print background	Checked
	Use extended hotkey	Checked
Custom barcode	Print time	Unchecked
	Print weight unit of weight	Checked
	Use original price in barcode	Unchecked
	Anti-wind	Checked
	Total price discount	Unchecked
Security	Discount PLU belongs to Department23	Unchecked
	Use extended shelf time	Unchecked
	Allow print zero price	Checked
	power-on auto print by default	Unchecked
	Close allow specify total Sales	Unchecked
Weight unit	Scale send weight from serial port	Unchecked
	Press Number + Total price and print	Unchecked
	Price by auto transformation from KG to 500g	Unchecked
	100 times the weight in the barcode	Unchecked
	Turn off the function of ticket accumulation	Unchecked

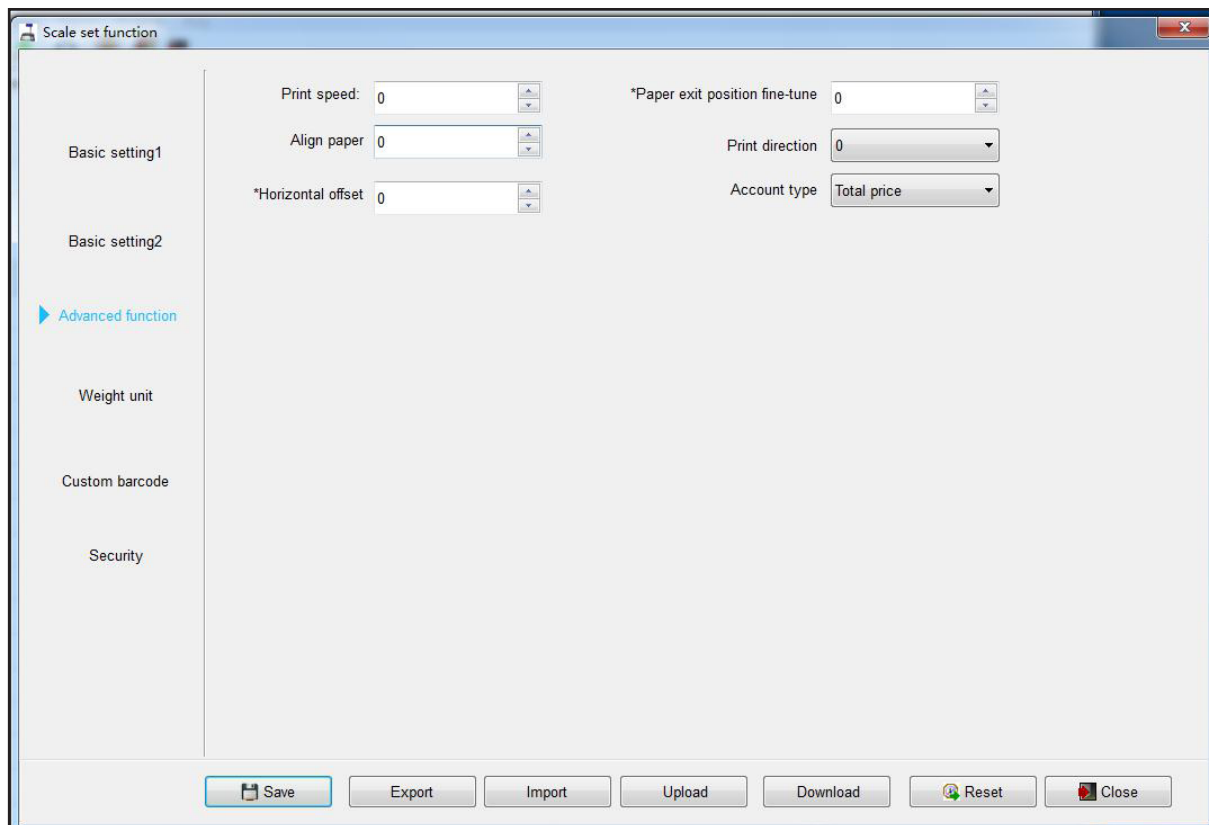
{Basic Setting2}

- **Print weight unit of unit price:** When printing the unit on the unit price (this function is for the specified firmware version)
- **Print discount mark line:** (retained)
- **Print quantity:** (retained)
- **Auto adjust PLU name:** (retained)
- **Lock Price:** This function is used for goods of a fixed weight (ex. package type is set as fixed weight). When automatically printing labels, this should be checked.
- **No gap label:** Retained
- **Use new shelf time mode:** Use the latest shelf life method (print blank in shelf life column when the shelf life is 364 and 365)
- **Use message 2:** If message2 is enabled at the same time, this must be checked
- **No print EAN-13 barcode:** When checked, the check digit will not print
- **No print after price change:** Use when the unit price is changed. If checked, no label will print. Otherwise, it will print immediately (retained)
- **Power-on paper picking detect by default:** Paper detection function enabled by default when power on (Only when the previous label is removed can the next one print)
- **Show unit in total price & unit price column:** Shows the unit's total price and unit price (this function is for the specified firmware version)
- **Close permanent change price:** Turn off the permanent price changing function
- **Close print zero weight price label:** When weight is 0, the label may or may not print (this function is for the specified firmware version)
- **Label printed with month abbreviated in English:** Month is expressed with English abbreviations in fields related to the date, such as 19-10-30-> 19-OCT-30

- **Print background:**
The background of the label will print, as shown. If turned off, the background will not print.



- **Use extended hotkey:** (retained)
- **Print time:** If checked, the date field (such as valid date, packed date) will print with a specific time. For example, "10-17-19 11:12." Otherwise, it will only print the date as, "10-17- 19"
- **Print weight unit of weight:** Use if printing units of weight, for example, 5.12 kg
- **Use original price in barcode:** If checked, it will show the original price on the label. Otherwise, it will show the current price
- **Anti-wind:** Prevents wind from interfering with the scale
- **Total price discount:** If checked, the unit price will show as the original price in the daybook uploaded. If not checked, it will show the discount price
- **Discount PLU belongs to department 23:** PLU that have been discounted belong to department 23
- **Use extended shelf time:** (retained)
- **Allow print zero price:** Will allow label printing when the price is 0
- **Power-on auto print by default:** Turns on the automatic printing function. When an item is on the scale, the label will be printed automatically after pressing the hot key
- **Long press [price] to permanently change price:** When enabled, long press [Price] to change the price permanently. If not enabled, short press [price] to change the price permanently
- **Turn off function that shows specific total sales:** To turn off the function: [press number + total price and print]
- **Scale send weight from serial port:** The weight from the scale can be obtained from the COM port of PC terminal, which is used for testing and connecting with the third party interface
- **Press number + total price and print:** If checked, input the unit price and press [NET CHECK/ SET AMT] button. The label will be printed automatically
- **Price by auto transformation from KG to 500g:** When the weight in kg, the unit price is converted into 500g. For example, usd 0.9/kg-> usd 0.45/500g



{Advanced function}

- **Align paper:** -8~+8 (retained)
- ***Horizontal Offset:** 0-16 (retained)
- **Print speed:** 0-7: 0 represents the fastest printing speed, while 7 represents the slowest printing speed. Printing performance is better in slow printing speed, but the lifespan of the printer head will be shorter
- **Print direction:** Adjust the exit direction of label paper, 0:0, 1:90, 2:180, 3:270
- **Account type:** (retained)
- ***Paper exit position fine-tune:** (retained)

{Weight unit}

Function: Choose the units to be used on the scale. Should be checked used.

{Security}

Function: Set the function password lock to prevent some parameters from being changed.

After setting, enter the relevant function and enter the password

- **Lock system function:** Long press [SETTING] on the scale, set the password
- **Lock account button:** (retained)
- **Lock PLU button:** Long press [PLU] button on the scale, set the password before editing
- **Lock discount button:** Long press the [DISCOUNT] button on the scale and set the password
- **Lock tare button:** Long press the [TARE] button on the scale and set the password
- **Only PLU key:** When this function is enabled, you can't input the LF Code by pressing the [PLU] button of the scale. You can only use the hotkey to input the LF Code

{Custom Barcode}

Function: Customize the barcode type No.99, and from No.101 to No.110

- **Barcode No:** Set the number of barcode type: Fixed position 99, 101-110
- **Barcode Type:** Choose the length of barcode
- **Barcode Format:** Set the barcode format. The corresponding fields for each letter are as follows: "(6)", "(10)", "(7)". The number in parentheses indicates the limited length

Example 1: L: LF Code (6) means inputting no more than 6 "L", like LLLLLL.

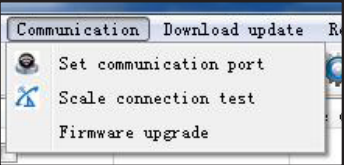
This will print 6 LF code

Example 2: #, &, \$, €, %, @, + (2) means inputting no more than 2 "##".

This will print 2 special symbols

- **Weight/quantity decimals:** Set the decimal digit for the weight or quantity, 0-3

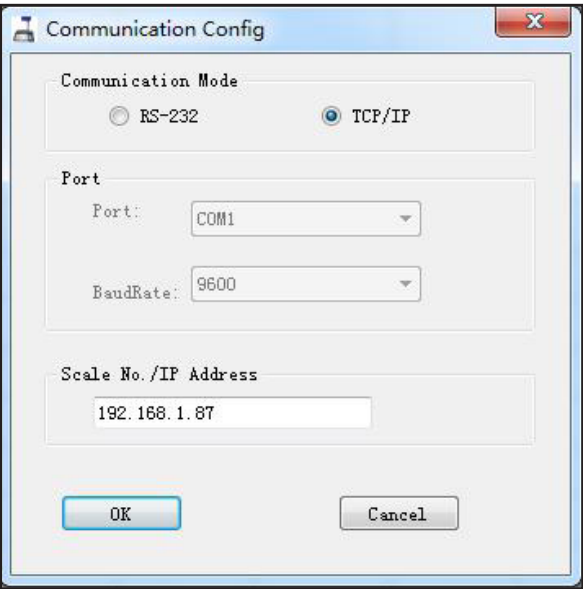
DESCRIPTION OF MODULE: {Communication}



{Set Communication Port}	Sets mode of connection to the scale
{Scale Connection Test}	Tests if PC can be connected to the scale
{Firmware Upgrade}	Update the programming on the scale

{Set Communication Port}

Open {Communication} >> {Set Communication Port}, or click the "wifi signal" icon on the toolbar. You will see this image:

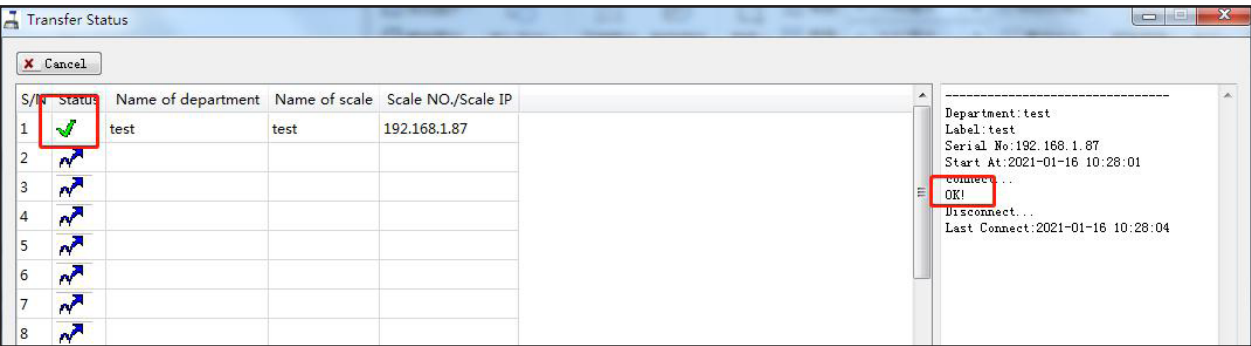


This module is mainly used for setting the mode for connecting the scale. Currently, only two methods (RS232 and TCP/IP) are supported.

- When {Port} is set as TCP/IP: enter correct IP address in [Scale No./IP Address].
- When {Port} is set as RS-232: enter the scale number in [Scale No./IP Address], to be "1234".

{Scale Connection Test}

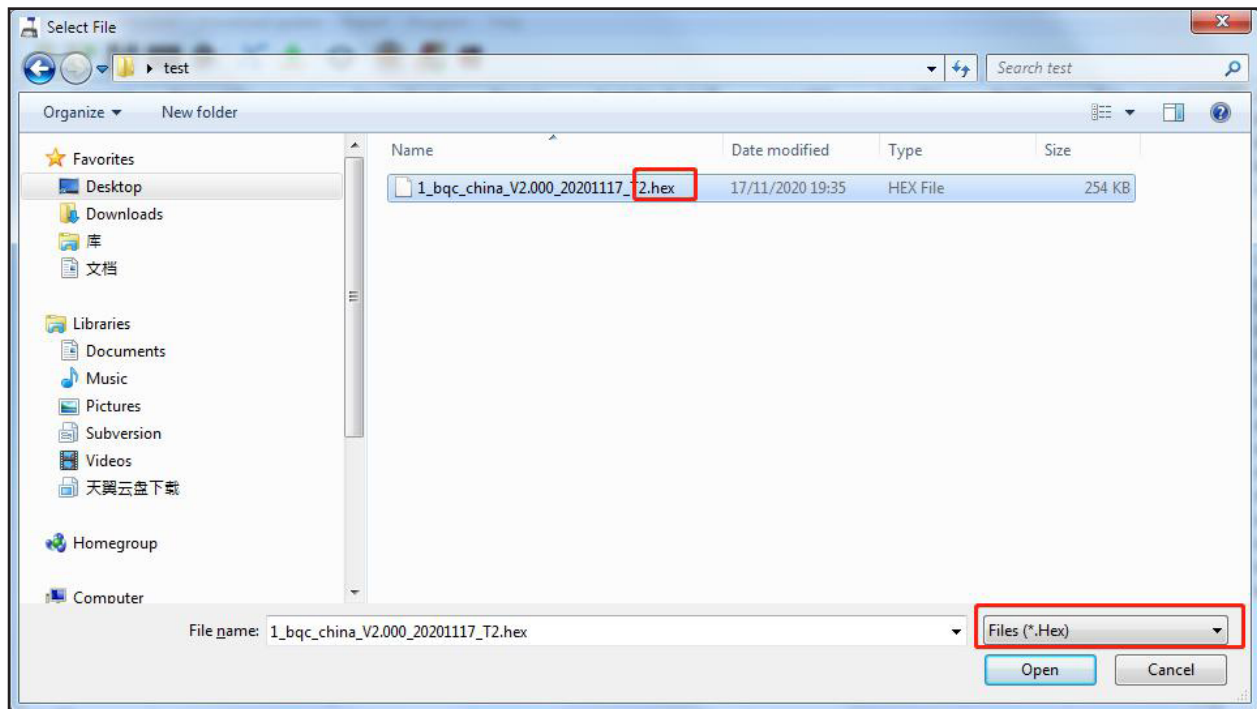
Open {Communication} >> {Scale Connection Test}, or click the "radar dish" icon on the toolbar. This function is designed to test whether the PC can be connected to the scale. If it is successful, you will see this image:



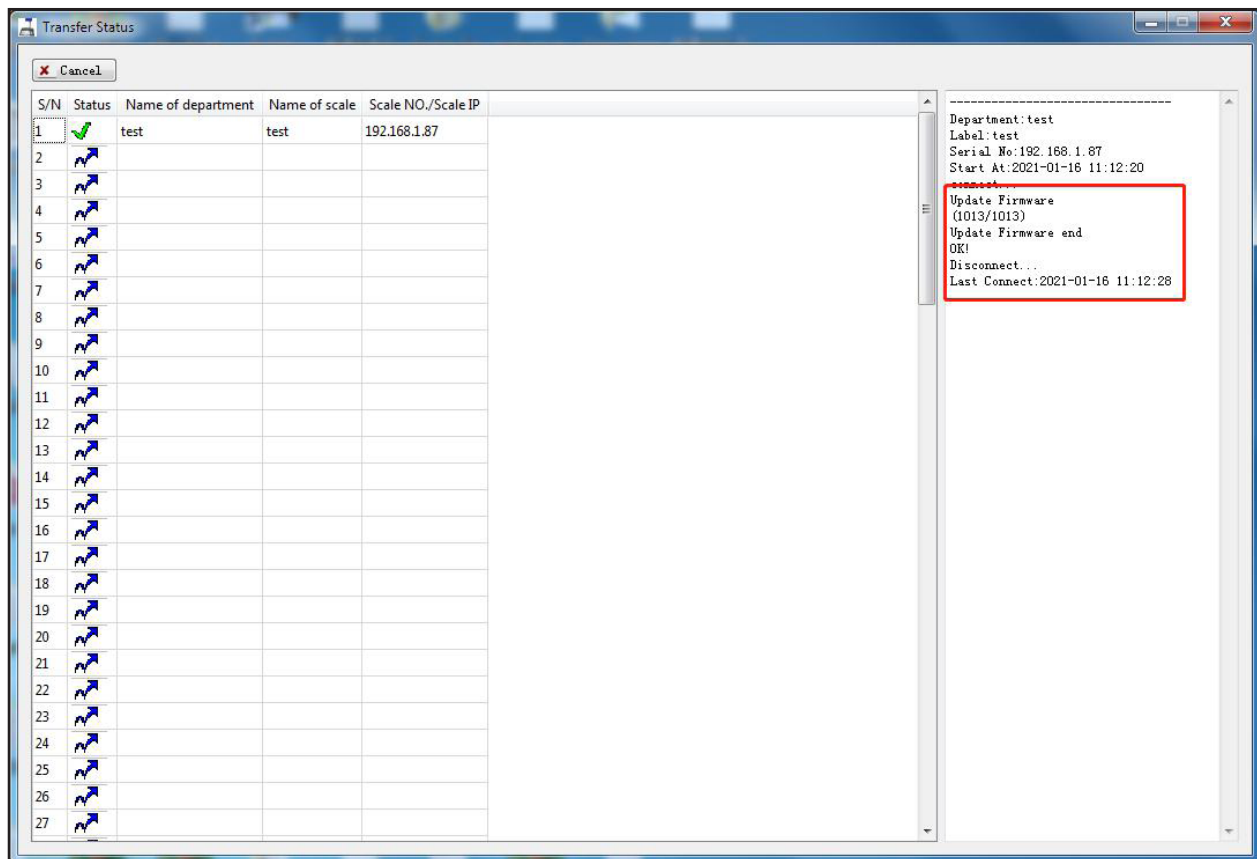
{Firmware Upgrade}

Open {Communication} >> {Firmware Upgrade}.

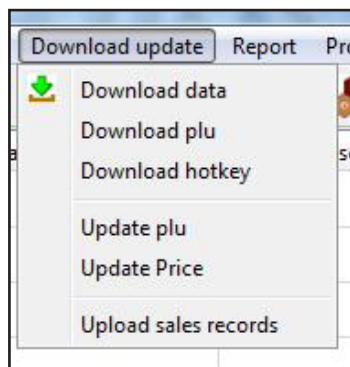
Update the program on the scale and select the .hex file as shown here:



When the red box (below) appears, it indicates that the update process was successful.



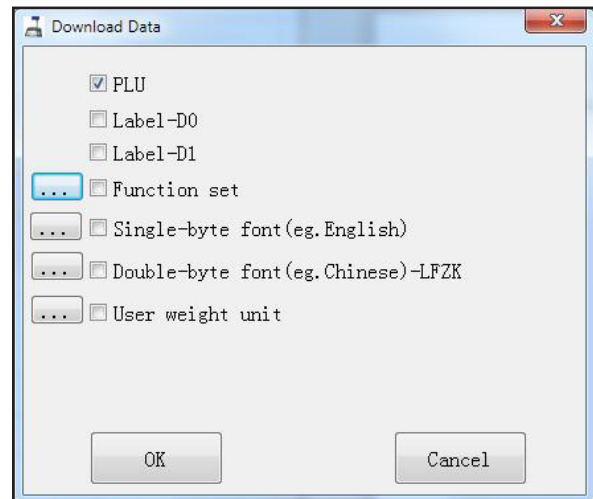
DESCRIPTION OF MODULE: {Download Update}



{Download Data}	Download PLU, barcode, function parameters, etc.
{Download PLU}	Download PLU data to the scale
{Download Hotkey}	Download PLU hotkey file
{Update PLU}	Update PLU data
{Update Price}	Uploads transaction detail records of the scale
{Update Sales Records}	Upload sales records

{Download Data}

Open {Download Update} >> {Download Data}, or click the "green down arrow" icon on the toolbar. This function is designed to be used for downloading PLU, labels, fonts, and relevant parameter settings.



- **{PLU}**: Downloads PLU-related information, such as hotkey, PLU name, etc.
- **{Label-D0} & {Label-D1}**: Downloads the label of D0, D1.

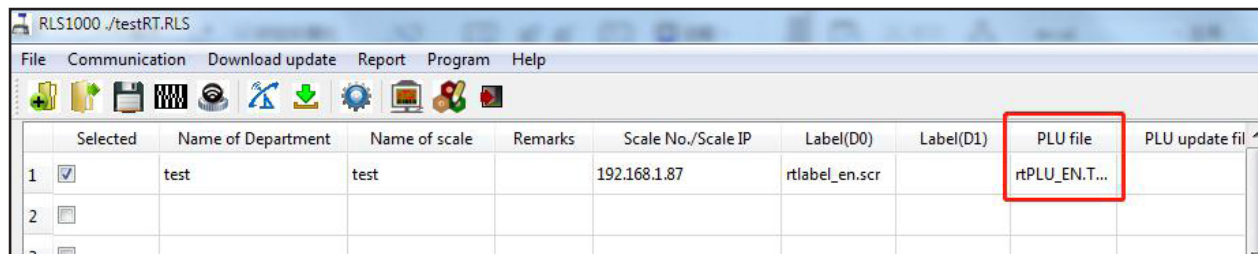
ATPLU_printer												
File PLU Selection Message Communication Help												
[icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon]												
[icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon] [icon]												
Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department	Tare	Shelf time	Package type	Package W
1	Chinese cabbage	1	2	0.00	kg	0	21	0.000	15	Normal	0.000	0.000
2	Celery	2	2	1.40	kg	0	21	0.000	15	Normal	0.000	0.000
3	Lettuce	3	2	4.00	kg	0	21	0.000	15	Normal	0.000	0.000
4	Mao Qie	4	2	2.40	kg	0	21	0.000	15	Normal	0.000	0.000
5	Scoop dishes	5	2	0.50	kg	0	21	0.000	15	Normal	0.000	0.000
6	Lettuce	6	2	3.60	kg	0	21	0.000	15	Normal	0.000	0.000
7	Cole	7	2	2.35	kg	0	21	0.000	15	Normal	0.000	0.000

Selected	Name of Department	Name of scale	Remarks	Scale No./Scale IP	Label(D0)	Label(D1)	PLU file	PLU
1	test	test		192.168.1.87	rtlabel_en_scr	sample_scr	rtPLU_ENT...	
2								
3								
4								
5								
6								

- **{Function Set}**: Downloads scale-related parameters as detailed on page 8.
- **{Single-Byte Font (e.g. English)}**: Downloads single-byte fonts, such as English.
- **{Double-Byte Font (e.g. Chinese)}**: Downloads double-byte fonts, such as Chinese characters and traditional Chinese characters.
- **{User Weight Unit}**: Downloads the unit name of PLU.
- **{Enter Mode}**: Downloads Pinyin Input Method, which is used for editing the input of PLU-related information on the scale

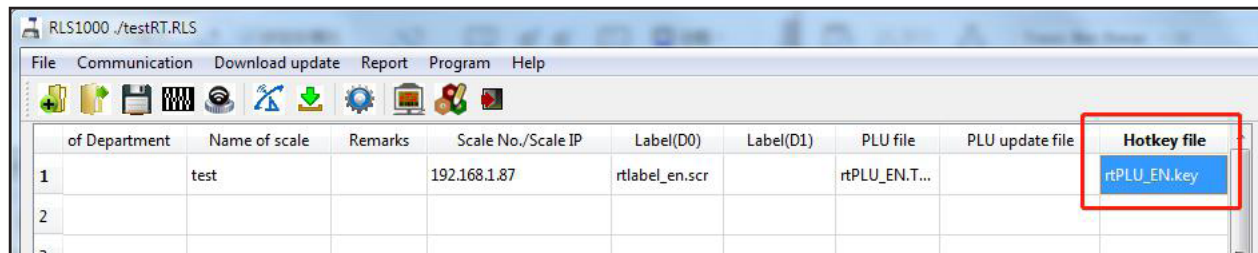
{Download PLU}

Open {Download Update} >> {Download PLU}. This function is designed for downloading PLU data to the scale. The PLU file must be set first, as shown below.



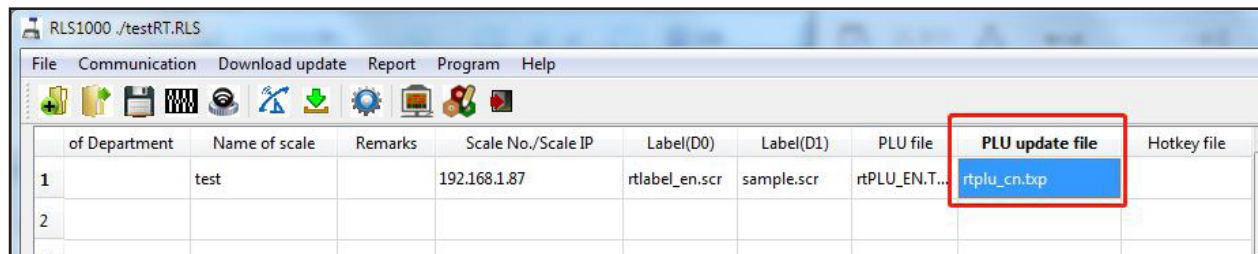
{Download Hotkey}

Open {Download Update} >> {Download Hotkey}. This function is designed for downloading a hotkey file. The Hotkey file must be set first, as shown below.



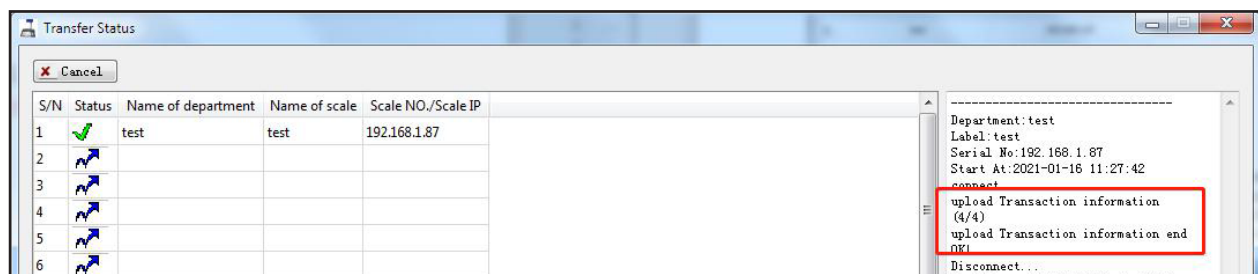
{Update PLU}

Open {Download Update} >> {Update PLU}. This function is designed for updating PLU data. The file to be updated must be set first, as shown below



{Update Price}

Open {Download Update} >> {Download Data}. This function is designed for uploading the transaction-detail records from the scale. If the upload is successful, the following figure will appear, of which, "Upload account (4 / 4)" indicates that there are 4 records in total, and 4 records have been successfully uploaded.



NOTE: After uploading, the transaction-detail records on the scale will be automatically cleared. After successful upload, the report can be viewed with {Sale Detail Query} on page 18.

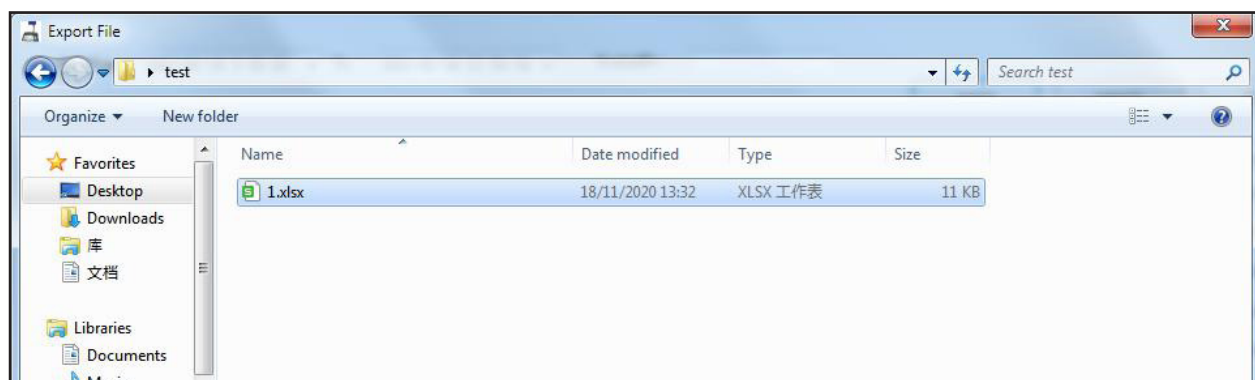
DESCRIPTION OF MODULE: {Report}

{Sale Detail Query}

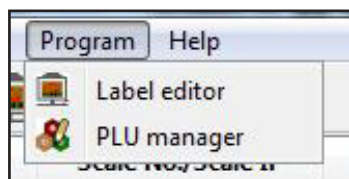
This function is designed for serving the query of transaction-detail reports that have been uploaded. Accurate queries can be made based on conditions such as sale time, scale IP, LF code, and PLU name.

S/N	Scale IP	User	LF Code	PLU name	Unit price	Unit	Weight	Total price	Sale time	Daily settlement
1 139	192.168.1.87	80157	2	ÇÜ'E	1.4	Kg	0.6	0.43	2021-01-16 11:2...	2021-01-08 17:0
2 140	192.168.1.87	80157	3	ÉÜ'E	4	Kg	1.72	0.43	2021-01-16 11:2...	2021-01-08 17:0
3 141	192.168.1.87	80157	1	Ó×'E	0.9	PCS(Kg)	0.9	1000	2021-01-16 11:2...	2021-01-16 11:2
4 142	192.168.1.87	80157	2	ÇÜ'E	1.4	Kg	0.6	0.43	2021-01-16 11:2...	2021-01-16 11:2
5 143	192.168.1.87	80157	3	ÉÜ'E	4	Kg	1.74	0.435	2021-01-16 11:2...	2021-01-16 11:2
6 144	192.168.1.87	80157	4	ÄÇÜ	2.4	Kg	1.03	0.43	2021-01-16 11:2...	2021-01-16 11:2

- **{Query}**: Searches corresponding data entered in the fields. If data is found, it will be displayed in the form data below. If data is not found, the form data will be empty.
- **{Export}**: Exports the tabel data of current query. The exported file formats as .xlsx.



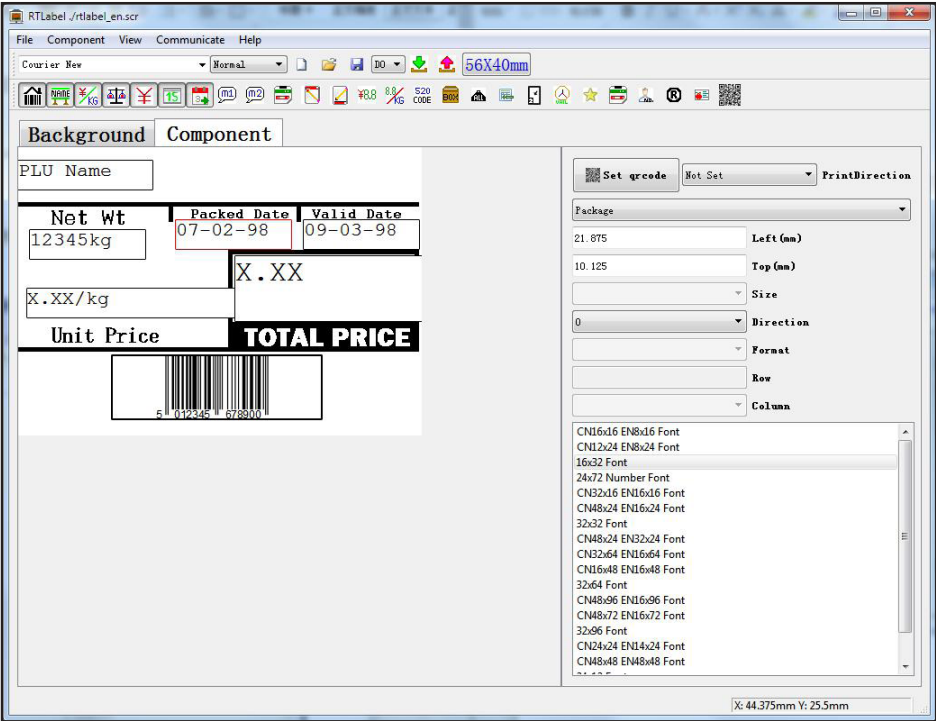
DESCRIPTION OF MODULE: {Program}



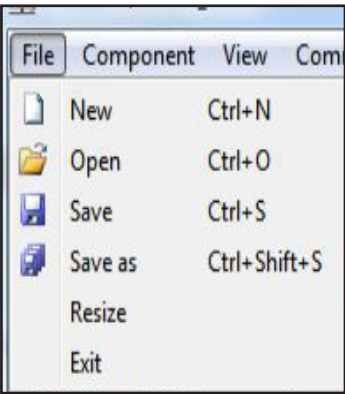
- | | |
|-----------------------|---------------------------------|
| {Label Editor} | Starts the Label Editor Program |
| {PLU Manager} | Starts the PLU Manager Program |

MODULE LABEL EDITOR

Edits the label printing template for printing
PLU-related information.



DESCRIPTION OF MODULE: {File}



{New}	Create new label template
{Open}	Open an existing label template
{Save}	Save currently edited label template
{Save As}	Save as a label template
{Resize}	Modify label size
{Exit}	Exit current program

{New}

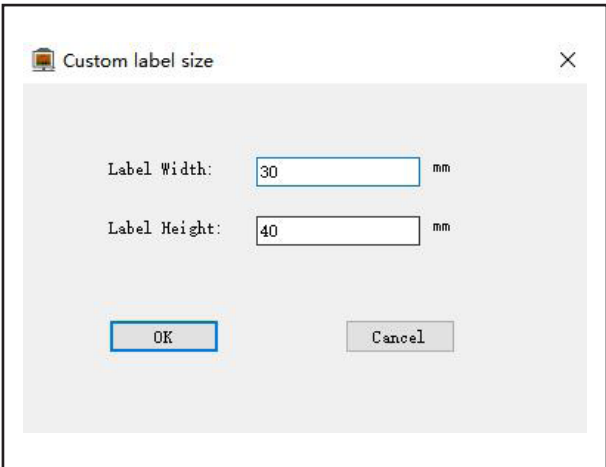
Creates a new label template. The following box will pop up; set parameters according to the size of the paper.

- Width must be between 30mm and 56mm.
- Height must be between 15mm and 140mm.

{Resize}

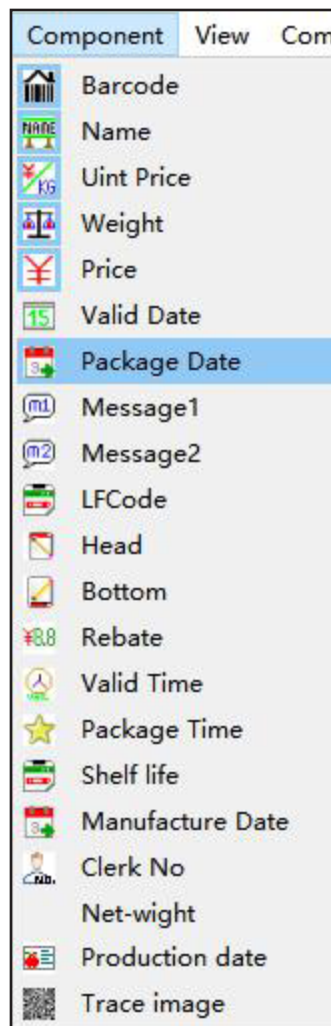
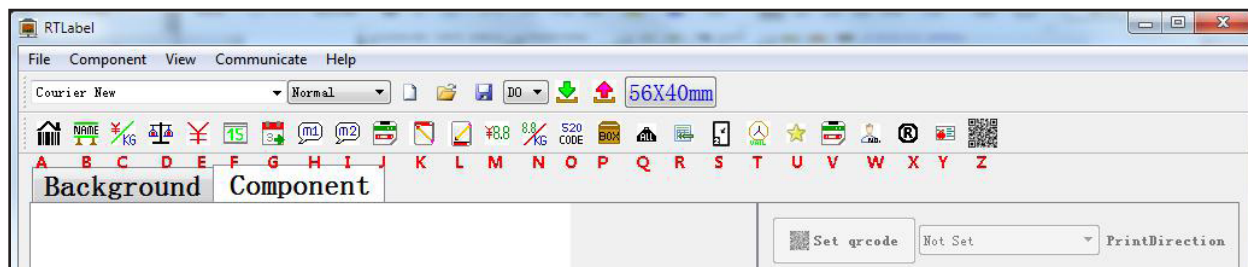
Modifies the size of the label template.

- Width must be between 30mm and 56mm.
- Height must be between 15mm and 140mm.



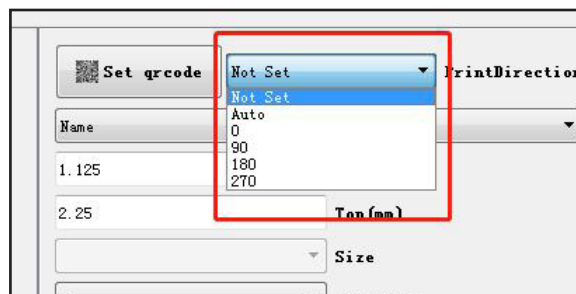
DESCRIPTION OF MODULE: {Component}

The components in this menu can be found in the toolbar. When a component is selected, both the toolbar and the menu are selected at the same time. The toolbar buttons are described below:



- A: Barcode
- B: Name
- C: Unit Price
- D: Weight
- E: Total price
- F: Valid date
- G: Packaging date
- H: Message 1
- I: Message 2
- J: LF Code
- K: Head (Header information)
- L: Bottom (Tail information)
- M: Pre-rebate total price
- N: Pre-rebate unit price
- O: Code
- P: Tare weight
- Q: Gross weight
- R: Nutrition information
- S: Label page number
- T: Valid time
- U: Package time
- V: Shelf life
- W: Clerk number
- X: Ice content
- Y: Production date
- Z: QR Code

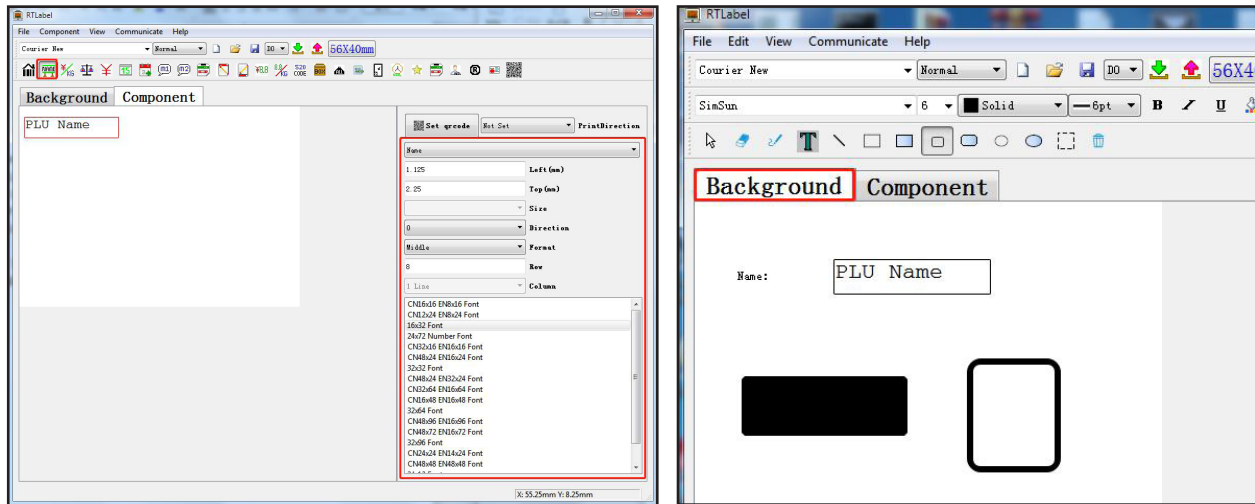
[Print Direction]: Set the print direction of the label. When value is greater than 0, the label will be rotated.



RULES ON LABEL OPERATION

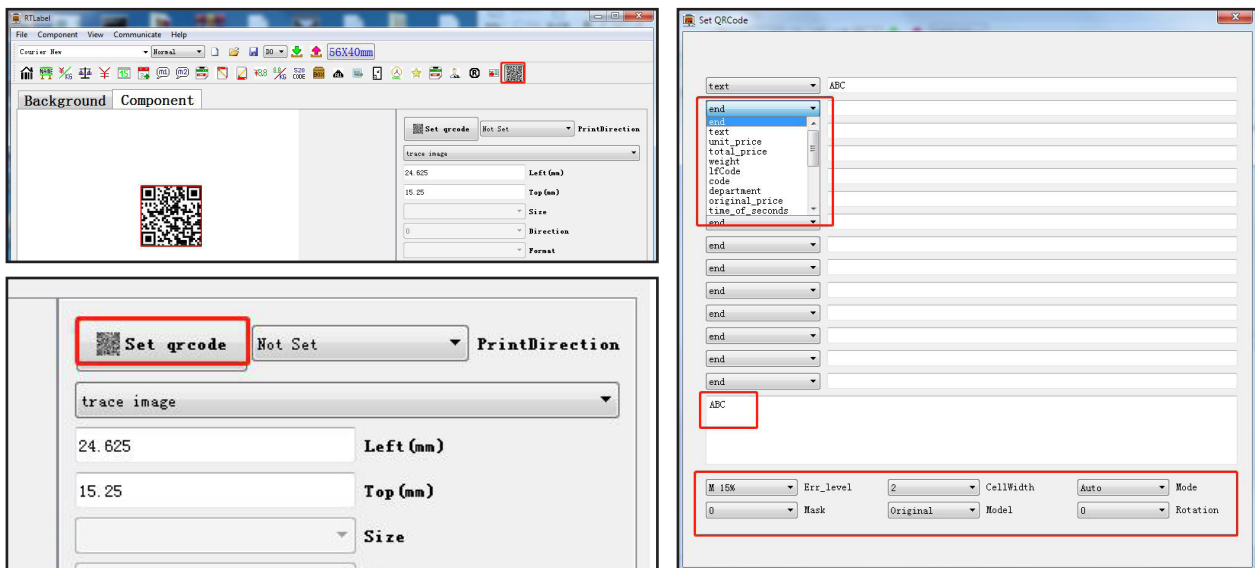
How to Edit a Label:

1. Click on a component of the toolbar such as {Name}.
2. Click on the blank space of the white canvas below.
3. Set Relevant Properties on the right (such as left, top, direction, and corresponding font).
4. Switch to {Background}, and then you can customize the drawing and write text.
5. Save ({File}>>{Save}).

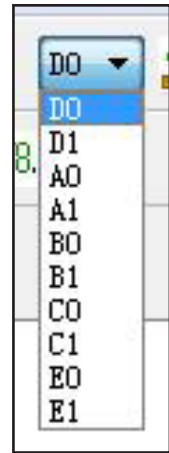
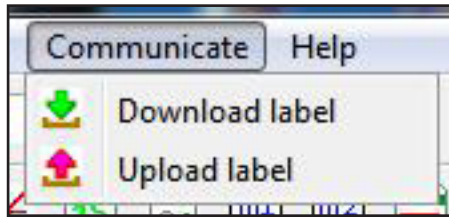


Operation of QR Code Component

1. Put QR code component in.
2. Open QR code setting interface by clicking {Set qr code}.
3. Set the properties related to QR code by selecting QR code-related field content (Text, Unit Price, Total Price, etc.) to be printed and set the properties of the QR code.
4. When completed, click the {Exit} button.

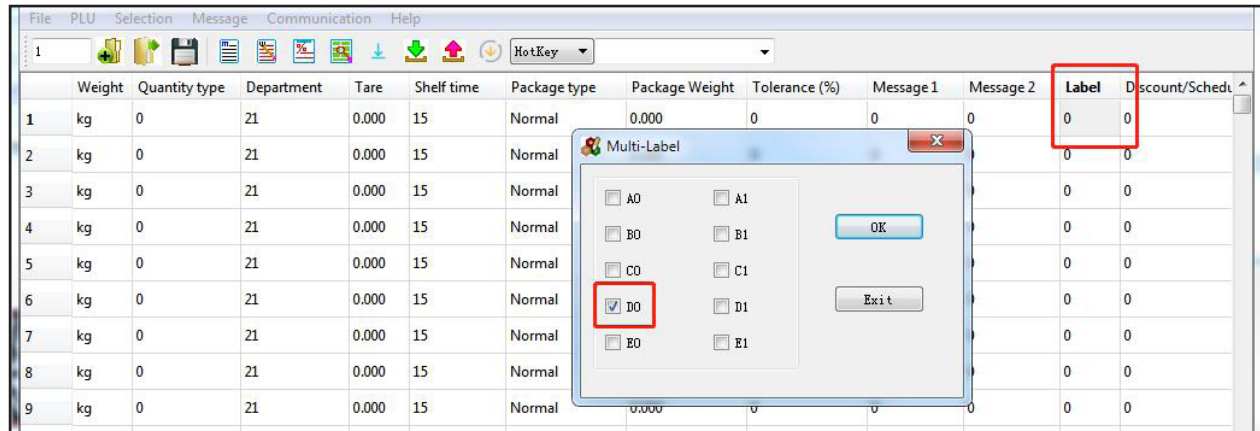


DESCRIPTION OF MODULE: {Communicate}

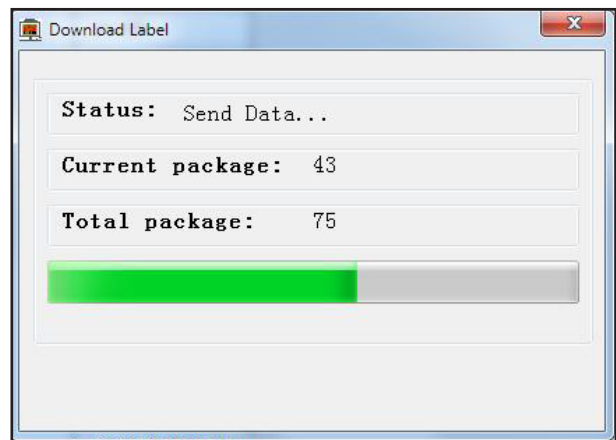
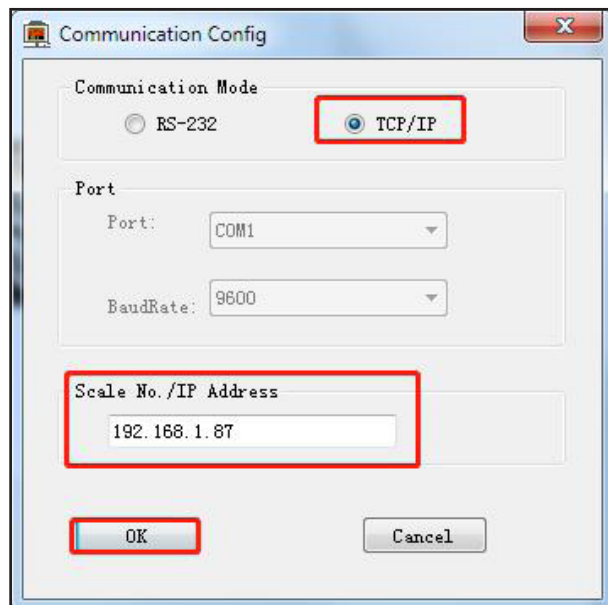


{Download Label}

1. Select the type of labels to be downloaded from D0-E1. Only when the type is the same as that set by {PLU manager}, can the label be downloaded.



2. Open {Communicate} >> {Download label} or click toolbar button.
3. Select the way to connect the scale. For example, select TCP/IP as follows and download labels through network. After selection, click {ok}.

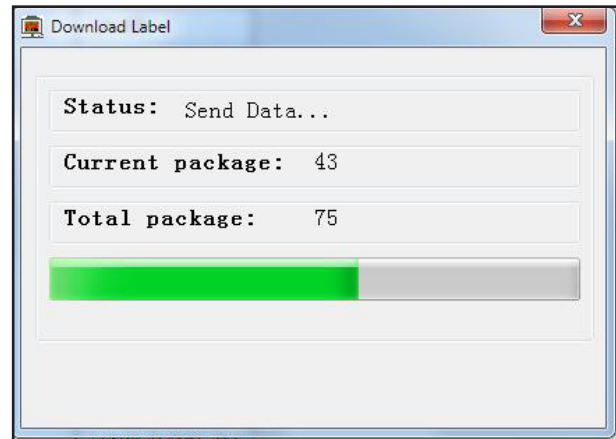
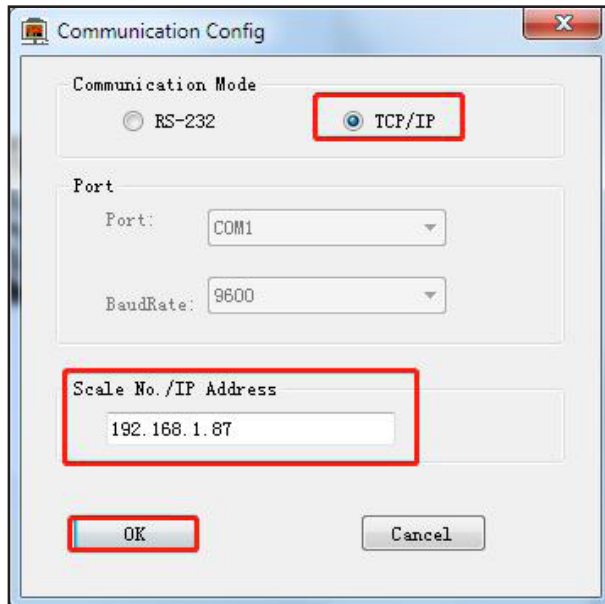
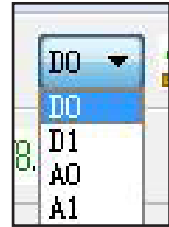


4. After download begins, download progress will be displayed.
5. After download successfully completes, "Communication over" will be displayed.

{Upload Label}

Upload a label template that has been downloaded to scale.

1. Select the type of labels to be uploaded from D0-E1.
2. Open {Communicate} >> {Upload label} or click toolbar button.
3. Select the way to connect the scale. For example, select TCP/IP as follows and download labels through network. After selection, click {ok}.



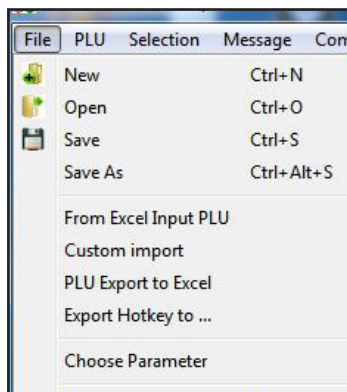
4. After download begins, download progress will be displayed.
5. After download successfully completes, "Communication over" will be displayed.

MODULE PLU MANAGER

This module is mainly for editing PLU-related information, and the information can be downloaded to the scale.

1. Open PLU manager.
2. Open 334PCSP30T menu : {Program}>>{PLU Manager}, or click on the toolbar button.

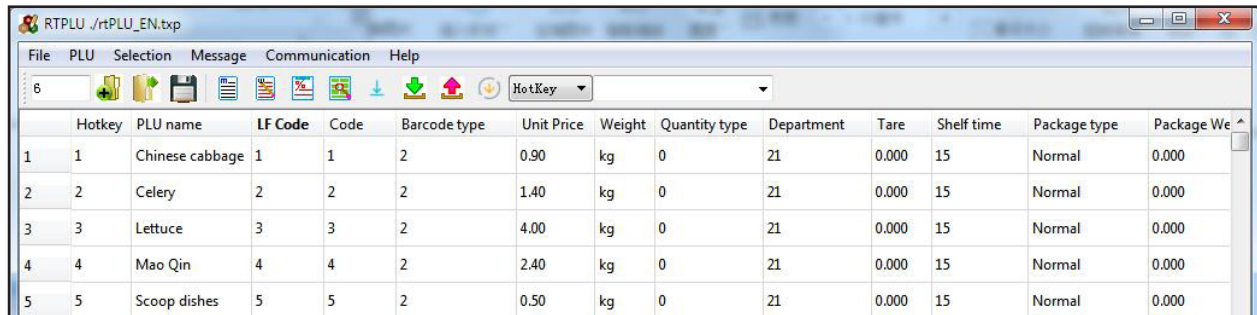
DESCRIPTION OF MODULE: {File}



{New}	Create a new PLU file
{Open}	Open an existing PLU file
{Save}	Save currently edited PLU file
{Save As}	Save to another PLU file
{From Excel Input PLU}	Import fixed-format files (.xls, .xlsx) from Excel
{Custom Import}	Import PLU file in customized format
{PLU Export to Excel}	Export PLU to Excel file
{Export Hotkey to ...}	Export hotkeys to generate PLU hotkey (*.key) file
{Choose Parameter}	Select PLU manager-related parameters
{Exit}	Exit current program

{New}

After creating a new PLU, you can enter relevant information, as shown below:



	Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department	Tare	Shelf time	Package type	Package We
1	1	Chinese cabbage	1	1	2	0.90	kg	0	21	0.000	15	Normal	0.000
2	2	Celery	2	2	2	1.40	kg	0	21	0.000	15	Normal	0.000
3	3	Lettuce	3	3	2	4.00	kg	0	21	0.000	15	Normal	0.000
4	4	Mao Qin	4	4	2	2.40	kg	0	21	0.000	15	Normal	0.000
5	5	Scoop dishes	5	5	2	0.50	kg	0	21	0.000	15	Normal	0.000

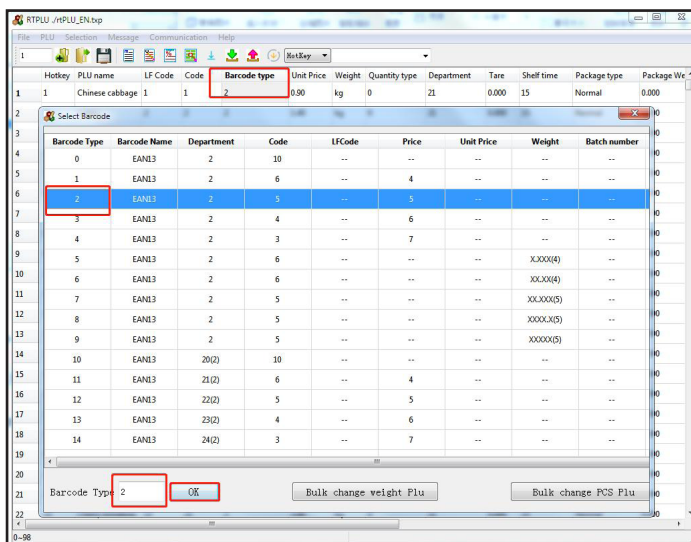
Each field is described as follows:

- **Hotkey:** Input hotkey (1-224) used to display a corresponding product after hotkey (1-112*2) is pressed on scale.
- **PLU Name:** Input PLU name within 36 characters
- **LF Code:** Input number within 6-figure which means Fresh Commodity Code.
NOTE: Do not repeat (unique ID value of goods)
- **Code:** Input number within 10-figure which means PLU item number
- **Barcode Type:** Input barcode type (0-99, 101-110)
See Barcode type in 5.1 Appendix I. Barcode Coding Table. You can also double click {Barcode Type} in the table, and the box for selecting barcode will pop up.

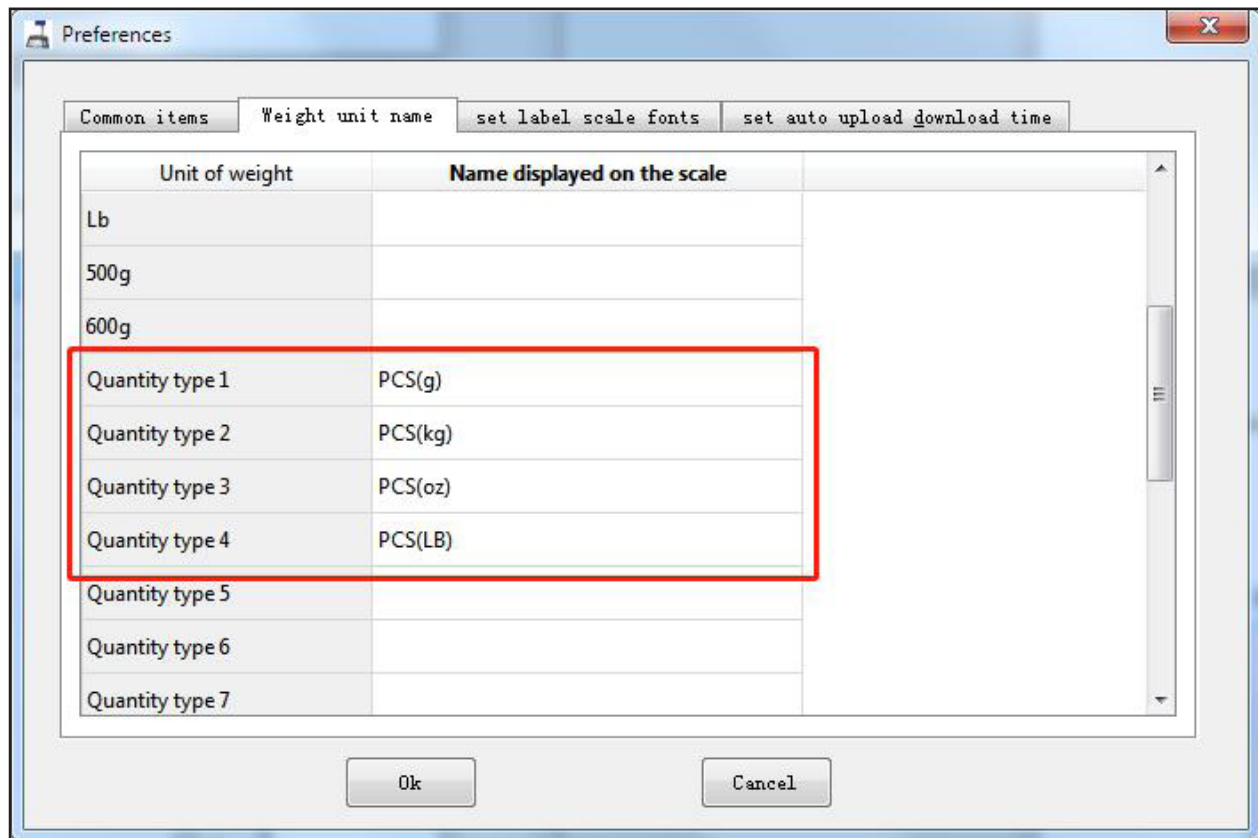
As shown below,

double click the desired barcode for selection.

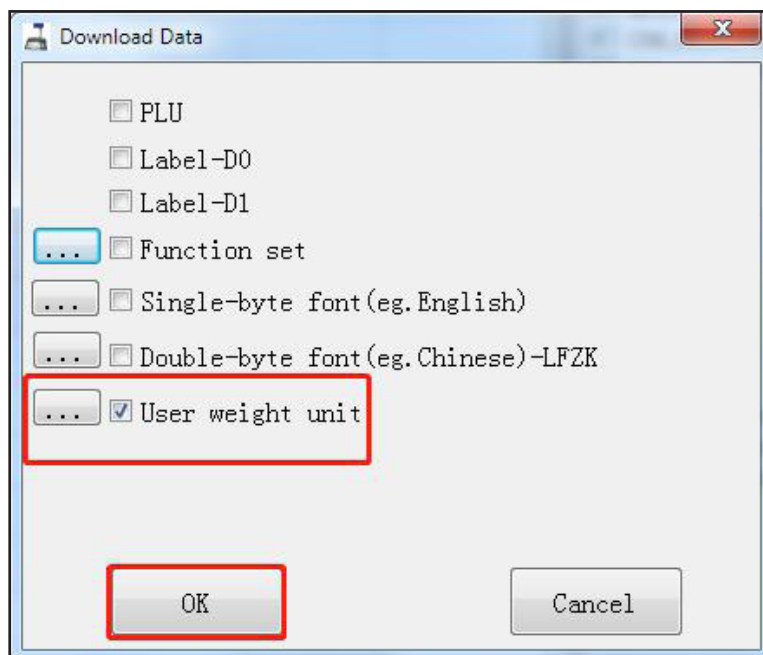
- **{Bulk change weight PLU}:** Batch change the bar code type of all goods by-weight to selected barcode type
- **{Bulk change PCS PLU}:** Batch change the bar code type of all goods by-piece to selected barcode type
- **{Unit Price}:** Input unit price
- **{Weight Unit}:** Press space, then select required weight unit
- **{Quantity Type}:** Set the unit name to be displayed on scale (Quantity type 1-Quantity type 6 are valid. Quantity type 8-Quantity type 15 are invalid)



- **{Quantity Type}:** Operation is as follows:
 1. Open {File} >> {Preferences} of the 334PCSP30T software or click the icon on the toolbar to switch to {Weight Unit Name}.
 2. Set the value of Quantity Type 1 - Quantity Type 4. Download the parameters after completion of the setting as shown below:



3. Click the 334PCSP30T toolbar and select {User weight unit} as shown below for downloading:



4. Set the weight unit of PLU manager:

Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department	Tare	Shelf time	Package type	Package We
1	Chinese cabbage	1	1	2	0.90	PCS(g)	0	21	0	15	Normal	0
2	Celery	2	2	2	1.40	PCS(kg)	0	21	0.000	15	Normal	0.000
3	Lettuce	3	3	2	4.00	PCS(oz)	0	21	0.0	15	Normal	0.0
4	Mao Qin	4	4	2	2.40	PCS(lb)	0	21	0.000	15	Normal	0.000
5	Scoop dishes	5	5	2	0.50	kg	0	21	0.000	15	Normal	0.000
6	Lettuce	6	6	2	3.60	kg	0	21	0.000	15	Normal	0.000
7	Cole	7	7	2	2.10	kg	0	21	0.000	15	Normal	0.000

5. or set as the following:

Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department	Tare	Shelf time	Package type	Package We
1	Chinese cabbage	1	1	2	0.90	PCS(g)	10	21	0	15	Normal	0
2	Celery	2	2	2	1.40	PCS(kg)	11	21	0.000	15	Normal	0.000
3	Lettuce	3	3	2	4.00	PCS(oz)	12	21	0.0	15	Normal	0.0
4	Mao Qin	4	4	2	2.40	PCS(lb)	13	21	0.000	15	Normal	0.000
5	Scoop dishes	5	5	2	0.50	kg	0	21	0.000	15	Normal	0.000
6	Lettuce	6	6	2	3.60	kg	0	21	0.000	15	Normal	0.000
7	Cole	7	7	2	2.10	kg	0	21	0.000	15	Normal	0.000
8	Lettuce	8	8	2	2.30	kg	0	21	0.000	15	Normal	0.000

Unit Corresponding to Quantity Type			
Quantity Type	Corresponding Unit	Quantity Type Value	Notes
50g	50g	0	For weight unit, if setting is useless, fill in "0"
g	g	0	
10g	10g	0	
100g	100g	0	
kg	kg	0	
oz	oz	0	
lb	lb	0	
500g	500g	0	
600g	600g	0	By default, "0" is ok, or 10-15 can be input. If "Corresponding Unit" is not set, the default is "PCS" on scale.
Quantity Type 1	PCS(g)	10	
Quantity Type 2	PCS(kg)	11	
Quantity Type 3	PCS(oz)	12	
Quantity Type 4	PCS(Lb)	13	
Quantity Type 5		14	
Quantity Type 6		15	Retained
Quantity Type 7-15			

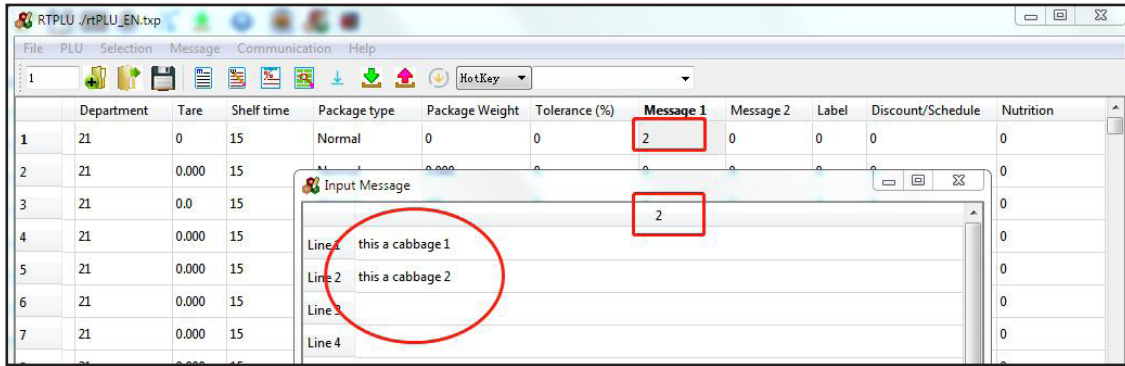
- **{Department}**: Input a two-digit to represent department
- **{Tare}**: Input tare weight, within 15kg after logic conversion
- **{Shelf time}**: Input shelf time (0-365). There are two ways to display shelf time unit: (0-365) means unit is showing the day. (-365-0) means unit is showing the hour
- **{Package type}**: Press the space bar to select the packing type. Generally, "normal" is selected



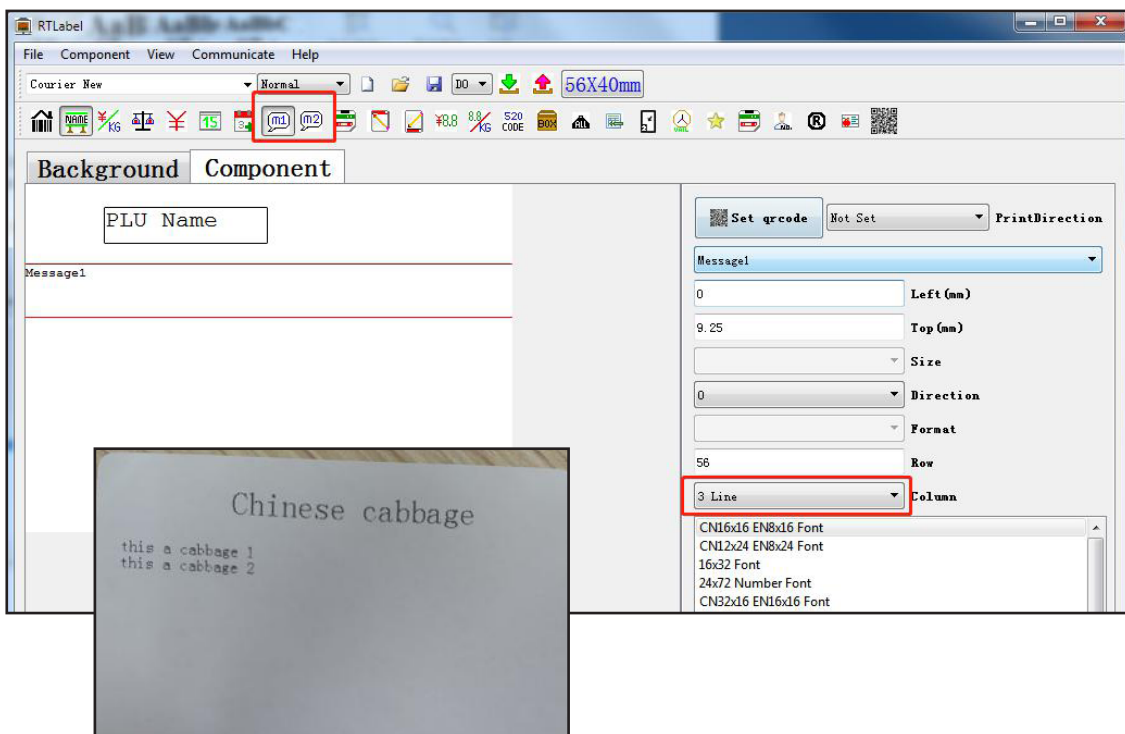
- **[Fixed weight]**
 1. In PLU, set the item package type as "fixed weight".
Input package weight m1 and input the tolerance
 2. Enable lock function (price lock) on the scale, which enables automatic printing
 3. Put the object on the scale and input the set item. When $m1 \cdot e / 200 / 2 < \text{object weight} < m1 + (m1 \cdot e) / 200 / 2 + (m1 \cdot e) / 200$, automatic printing is allowed
 4. The printed weight is the package weight
 - **[Fixed price]**
 1. In PLU, set the item package type as "fixed price", input package weight m1, and input the tolerance
 2. Enable lock function (price lock) on scale, and automatic printing is enabled
 3. Put the object on the scale and input the set item. When $m1 \cdot e / 200 / 2 < \text{object weight} < m1 + (m1 \cdot e) / 200 / 2 + (m1 \cdot e) / 200$, printing is allowed
 4. The printed weight is the package weight. The printed total price is the unit price. The unit price is not printed
 - **[Both fixed] (Fixed weight and Fixed price)**:
 1. In PLU, set the item package type as "fixed weight and fixed price" and enter package weight
 2. Enable lock function (price lock) on scale
 3. Put the object on the scale, input the set item and press "print". The printed weight is the package weight and the printed total price is the unit price. The unit price is not printed
 - **[QRcode]**: Customized customer use, retained
 - **[PT]**: Customized customer use, retained
 - **{Package Weight}**: Input package weight, within 15kg
 - **{Tolerance}**: Input package tolerance in percentage (0-20) Used along with fixed weight and fixed price
 - **{Message 1}**: Input the selected message No. (0-10000) use this message
 - **{Message2}**: Input the selected message No. (0-197) use this message
- NOTE:** To enable Message2, {Set function}>>[Use message 2] of the 334PCSP30T module must be checked.
- The operation of [Message 1] and [Message 2] is the same, as shown below.
 1. Input "2" in [Message 1] in the table

	Department	Tare	Shelf time	Package type	Package Weight	Tolerance (%)	Message 1	Message 2	Label	Discount/Schedule	Nutrition
1	21	0	15	Normal	0	0	2	0	0	0	0
2	21	0.000	15	Normal	0.000	0	0	0	0	0	0
3	21	0.0	15	Normal	0.0	0	0	0	0	0	0

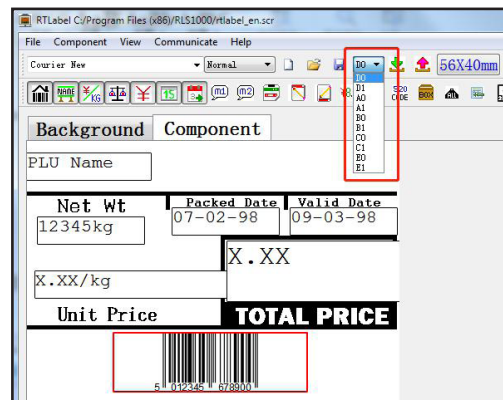
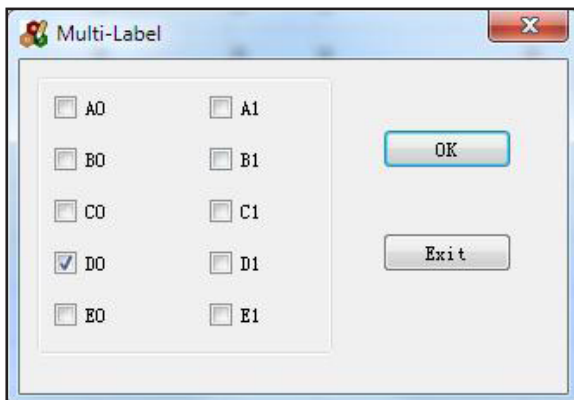
- Press the spacebar or double click on [Message 1] to get the following box to appear. Input information, save, and download to the scale.



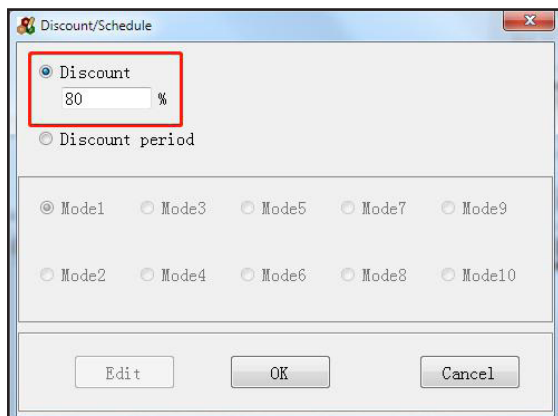
- Put the [Message1] component in [Label editor], set the number of lines and fonts to be displayed, and print the information on the commodity. The print effect is as follows:



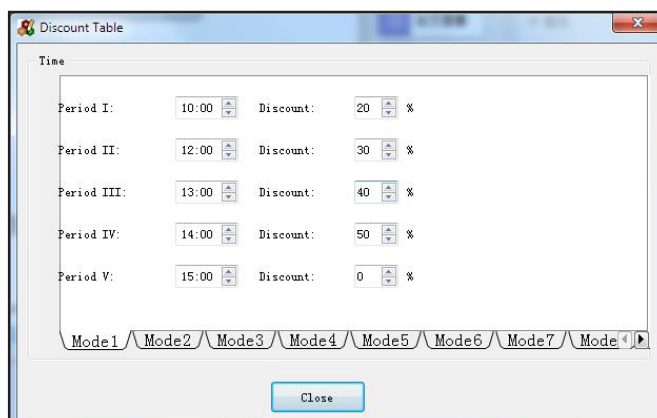
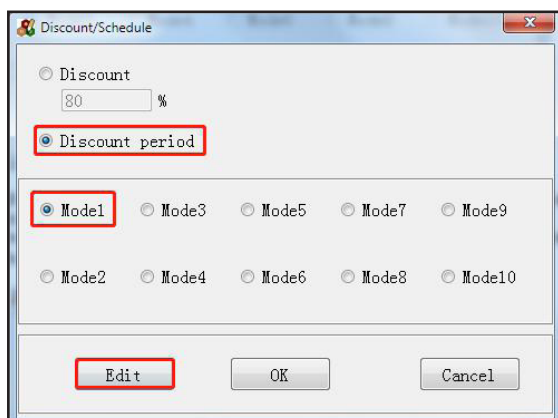
- [Label]:** Select label type. After checking, select corresponding label type in [Label editor] and download to enable the function.



- **[Discount/Schedule]:** Input the discount rate. Range of discount (0-138). Double click the [Discount /Schedule] column or press the spacebar to see the following image. Inputting 80 indicates a 20% off on the commodity. For example, when original price is 60, $60 \times 80 / 100 = 48$. The price after discount is 48.



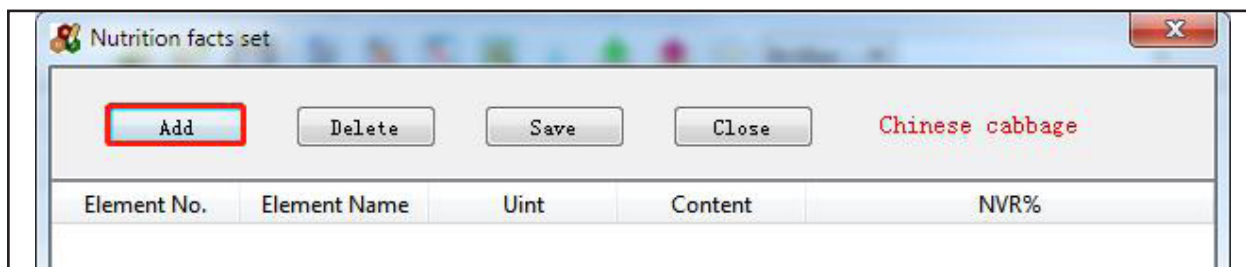
- **[Discount Period]:** A time period-based discount can also be performed. Select [Discount period] >> [Model] >> Edit as shown below.



This function is designed for providing different discounts based on different time periods.
 10:00-11:59: Discount=20%; 12:00-12:59: Discount=30%; 13:00-13:59: Discount=50%; No discount after 15:00.

NOTE: The discount method here is the opposite to the previous [Discount] calculation. For example, when the discount rate is 20% and the original price is 60, $60 \times (100 - 20) / 100 = 48$. The price after discount is 48.

- **[Nutrition]:** Set the nutrient content contained in commodity, and a nutrition label can be printed. The operation steps are as follows:
 1. Double click [Nutrition] column or press spacebar to get to the following image:



2. Click [Add], and the nutrition selection elements will appear. It can be seen from the image below that the nutrient element table is empty at the time. Nutrient elements can be added by clicking [Edit], or by adding through the {PLU} >> {Nutrition table set} on the main menu.
3. Add the nutrient element table, as shown below. If the table is completed, this step can be ignored.
4. Click [Save] in the right image and return.

NO.	Nutrition name	Unit
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

NO.	Nutrition name	Unit
1	VB	mg
2	VC	g
3	Calcium	mg
4	Heat	kJ
5		
6		
7		
8		
9		
10		
11		
12		

5. Reopen this interface, click download, and select the nutrients to be used as shown below.

NO.	Nutrition name	Unit
1	VB	mg
2	VC	g
3	Calcium	mg
4	Heat	kJ
5		
6		
7		
8		
9		
10		
11		
12		

6. Click [OK] and return to the main interface. Enter [Content], [NRV%], click [Save]. If any information in the table is no longer needed, you can delete it by clicking [Delete].

Element No.	Element Name	Unit	Content	NVR%
1	VB	mg	100	40
2	VC	g	30	10

- [Content]: The nutrients contained in current PLU “Chinese123”, VB->100mg, are as shown below
- [NRV%]: The percentage of nutrients contained in current PLU “Chinese123”, VC->10%, is as shown below.

Element No.	Element Name	Unit	Content	NRV%
1	VB	mg	100	40
2	VC	g	30	10

- Click [Save] in the above image and return to main interface. At the time, the [Nutrition] column will become “1”, representing that the setting is good and that the information will be downloaded to the scale.

	Department	Tare	Shelf time	Package type	Package Weight	Tolerance (%)	Message 1	Message 2	Label	Discount/Schedule	Nutrition
1	21	0	15	Normal	0	0	2	0	0	0	1
2	21	0.000	15	Normal	0.000	0	0	0	0	0	0

- Open {Label editor}, put the nutrition label component in, and set the number of lines to be displayed as shown below. The information will be downloaded to the scale.

RTLabel

File Component View Communicate Help

Courier New Normal 56X40mm

Background Component

PLU Name

Nutrition name

Project	Content per 100g	NRV%

Set qrcode Not Set PrintDirection

Temporary information

0 Left (mm)

14 Top (mm)

Size

0 Direction

Format

56 Row

2 Line Column

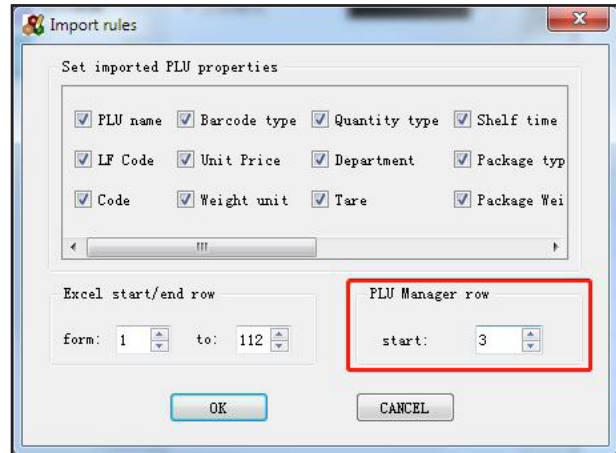
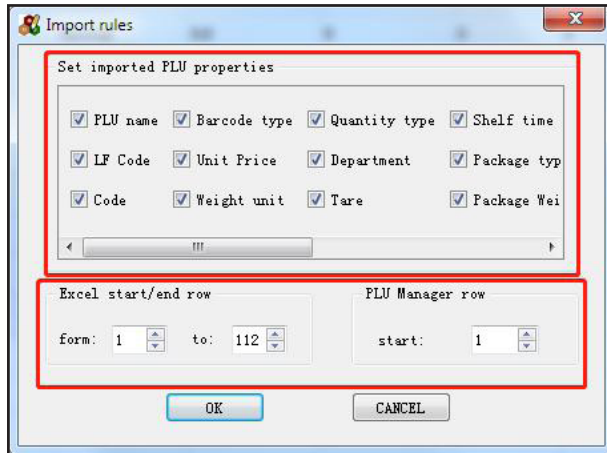
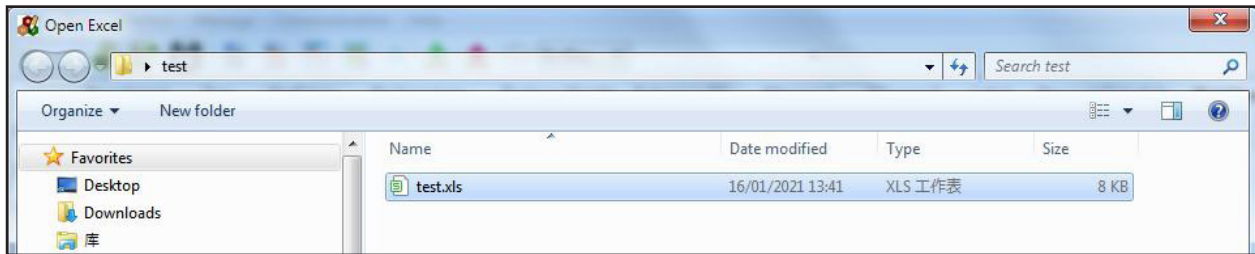
CN16x16 EN8x16 Font

CN12x24 EN8x24 Font

16x32 Font

{Import Into PLU From Excel}

Import fixed-format file (.xls, .xlsx) from Excel. The format of the file will be consistent with {PLU Export to Excel}. Although the file is .xls format, it is actually in text format, with the Tab key as a delimiter. It can also be opened in Excel.



- **[Set Imported PLU Properties]:** Select the field to be imported.
- **[Excel Start/End Row]:** Set the row from which the source file starts and the row where the source file ends that are to be imported to {PLU manager}.
- **[PLU manager row]:** Set the row of {PLU manager} from which the inserted source file starts when imported to the {PLU manager}. The insertion is set to start from Row 3 as shown below.

RTPLU C:/Users/Administrator/Desktop/test/test.xls

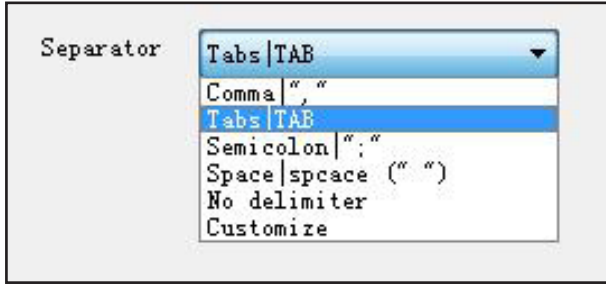
FilePLUSelectionMessageCommunicationHelp

10

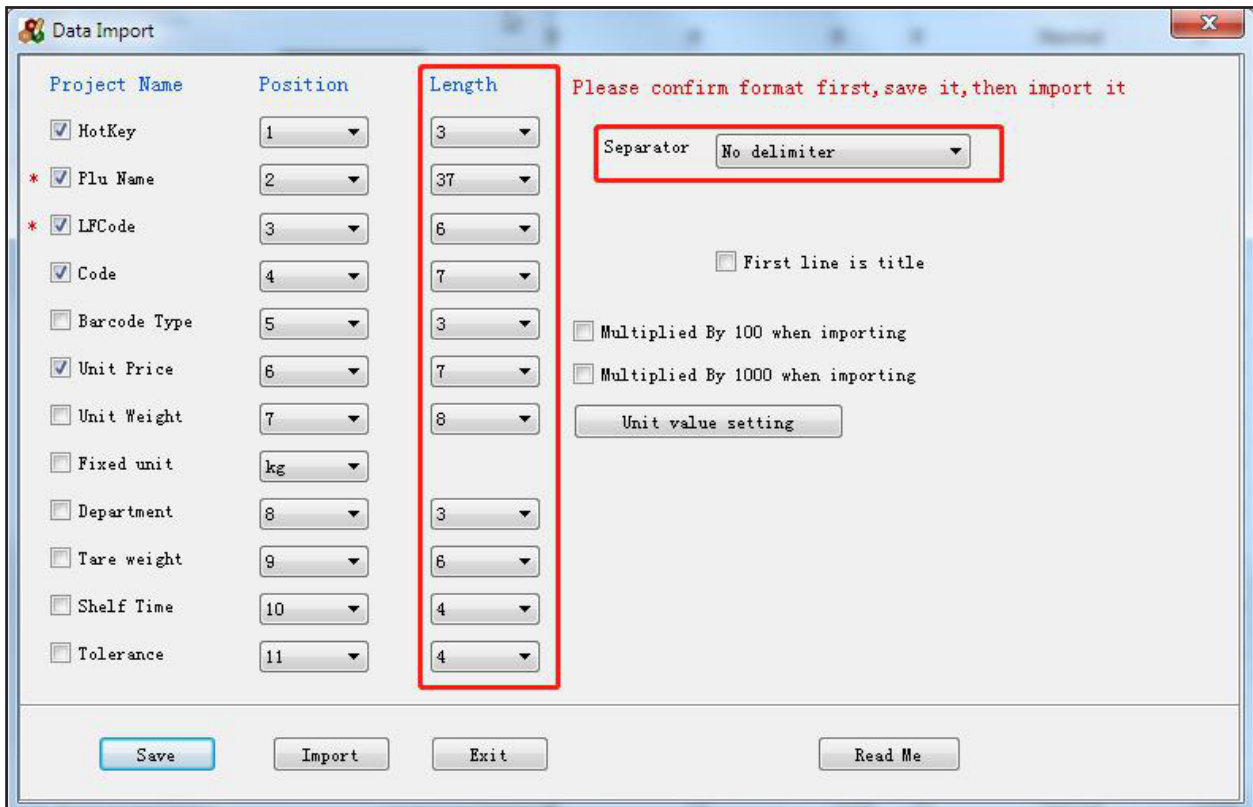
<

{Custom Import}

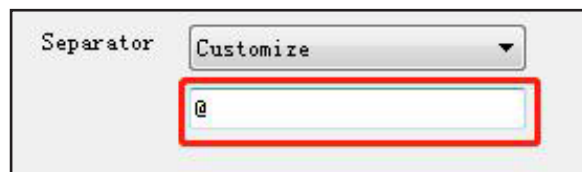
Import PLU file with customized format as shown below.



- **[Separator]:** Set delimiter for each column of the file to be imported.
The delimiters include the following types.
 - **Use the Comma | "," as a delimiter.**
1, Chinese 123,1,1,2,9,4,10,21,0,15,0,0,0,1,0,0,0, 0,,0,0,1
 - **Use Tabs | TAB as a delimiter.**
1 Chinese 123 1 1 2 9 4 10 21 0 15 0 0 0 1 0 0 0 0 0 1
 - **Use Semicolon | ";" as a delimiter**
1;Chinese 123;1;1;2;9;4;10;21;0;15;0;0;0;1;0;0;0;0;;0;0;1
 - **Use Space | space (" ") as a delimiter**
1 Chinese123 1 1 2 9 4 10 21 0 15 0 0 0 1 0 0 0 0 0 1
- **NOTE:** A space is treated as a field. If there is a space in the content of the field, you cannot use a space as a delimiter.
- **No delimiter:** If there is no delimiter, a fixed length must be set for each field.
The format is as follows:
001Chinese123 0000100000102000009000004



- **[Customize]:** Customize delimiter. When this item is selected, the following box will pop up for entering a customized character.



A dialog box titled 'Separator' with a dropdown menu set to 'Customize'. Below the dropdown is a text input field containing the '@' symbol, which is highlighted with a red rectangular border.

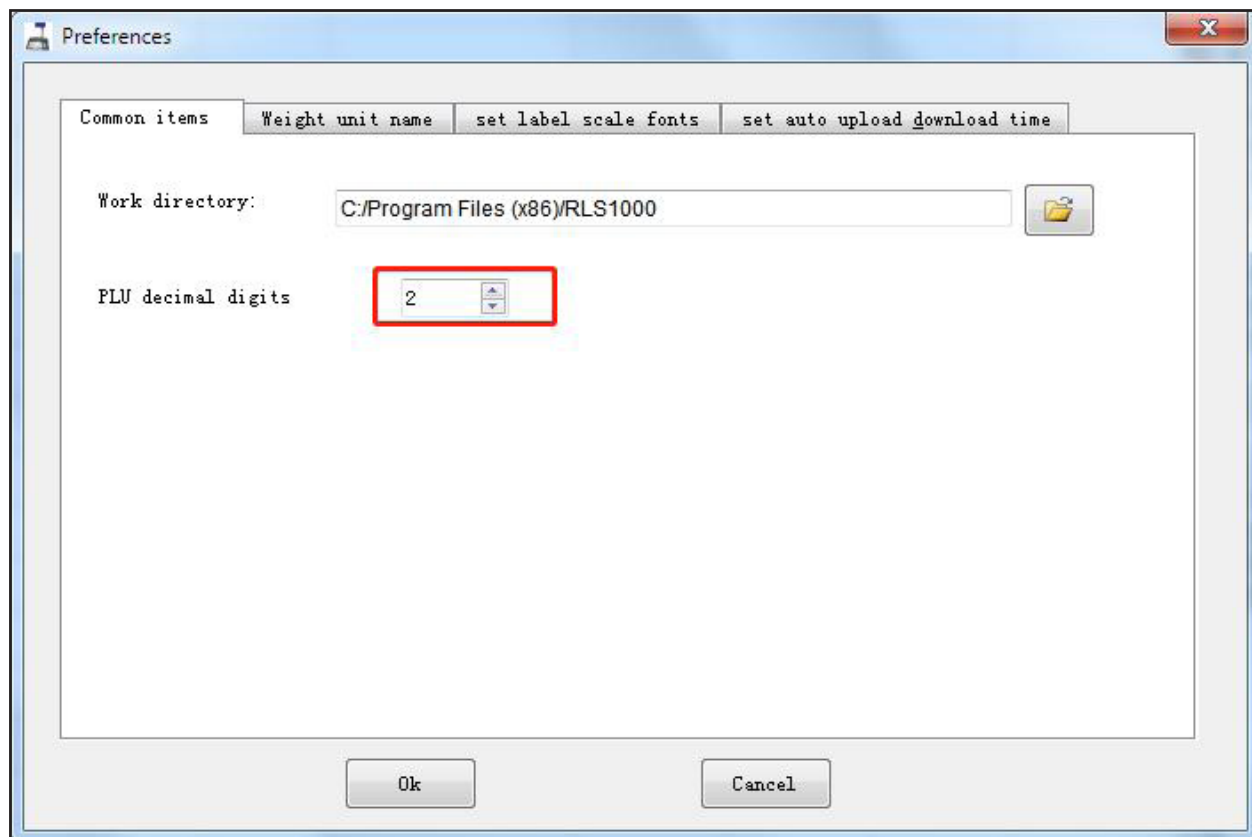
- **[Multiply by 1000 upon unit price import]**

File format:

1@Chinese

123@1@1@2@9@4@10@21@0@15@0@0@0@1@0@0@0@0@@0@0@1

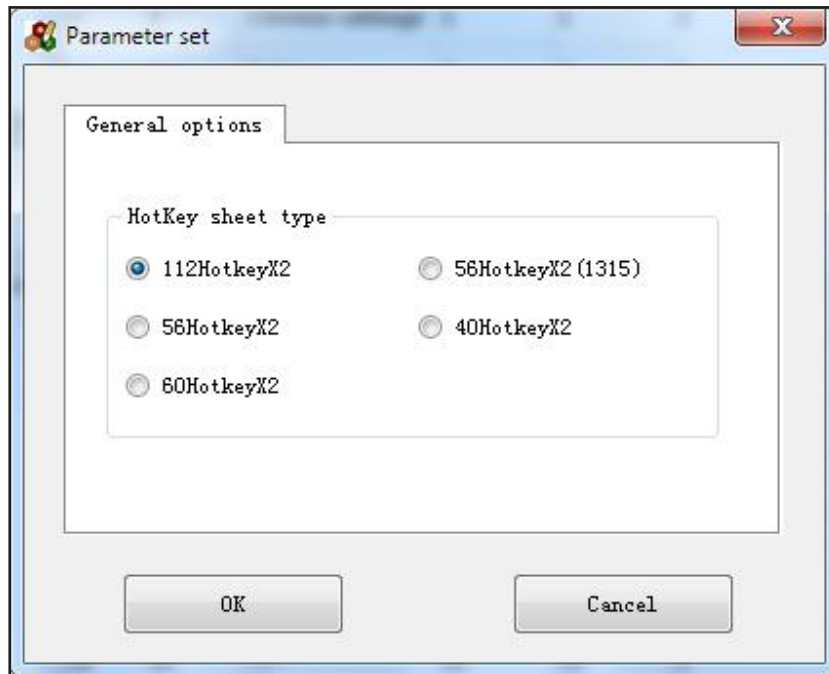
- **[Project name]:** Select whether a field is to be imported. After checked, the field will be imported.
- **[Position]:** Indicate the column of the file to be imported from which the current field starts (with [Delimiter] as the delimiter of the column)
- **[Length]:** Set the length occupied by each field. This is valid only when [Delimiter] is set as "No delimiter".
- **[Multiply by 100 upon import] [Multiply by 1000 upon import]:** If a unit price in a file to be imported is stored in decimal form, it will be automatically divided by 100 or 1000 according to the setting of [PLU Decimal digits] of {RLS1000} >> {Preferences} >> {Common items} as shown in the image below. (When "2" is given: divide by 100; when "3" is given: divided by 1000). Accordingly, when a corresponding external file is to be imported, the unit price should be multiplied by 100 or 1000. If the external file stores the unit price in integer format, and the unit price has already been multiplied by 100 or 1000, the item won't be checked.



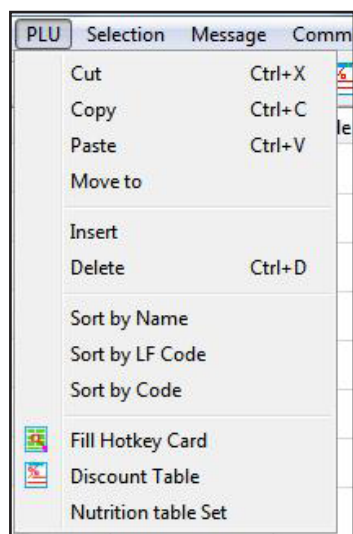
The 'Preferences' dialog box is shown with the 'Common items' tab selected. The 'Work directory' is set to 'C:/Program Files (x86)/RLS1000'. The 'PLU decimal digits' is set to '2', which is highlighted with a red rectangular border. The 'Ok' and 'Cancel' buttons are at the bottom.

{Parameter Set}

This is designed for setting the hotkey mode of the current scale. The setting here will affect the display mode of {PLU} >> {Fill Hotkey Card}.

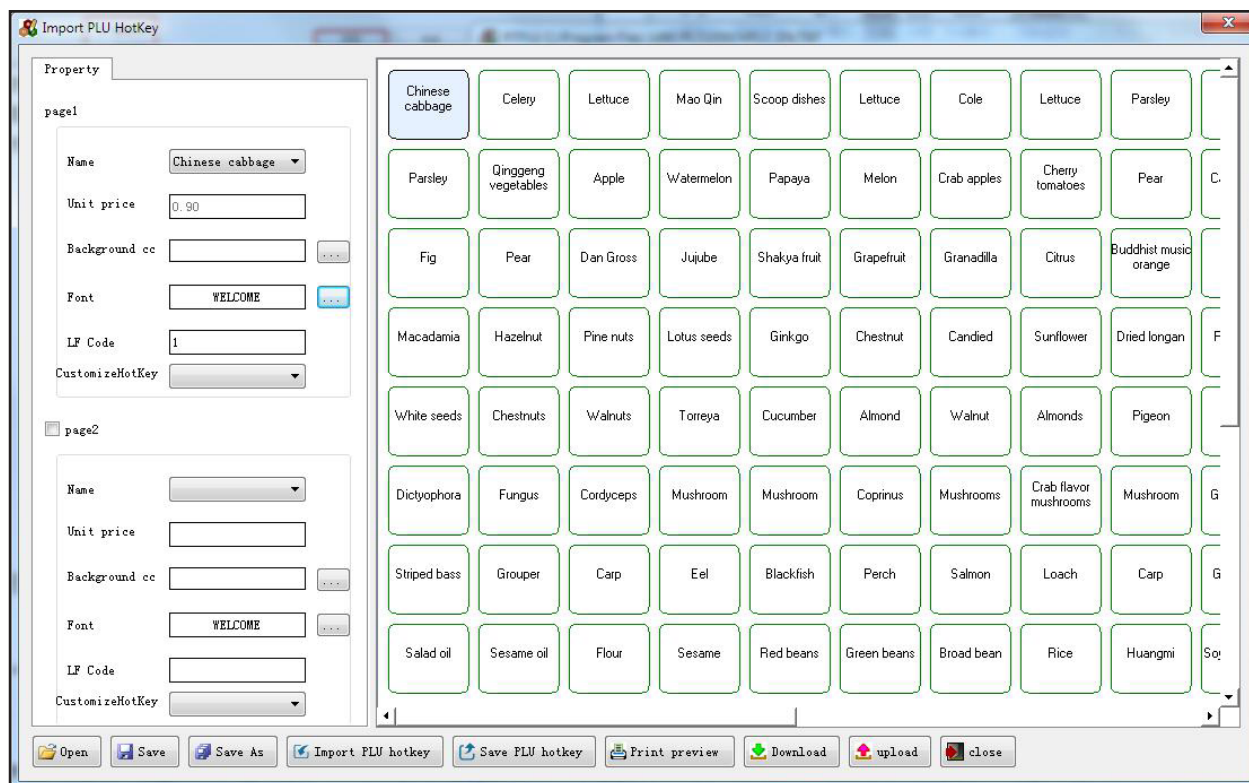


DESCRIPTION OF MODULE: {PLU}

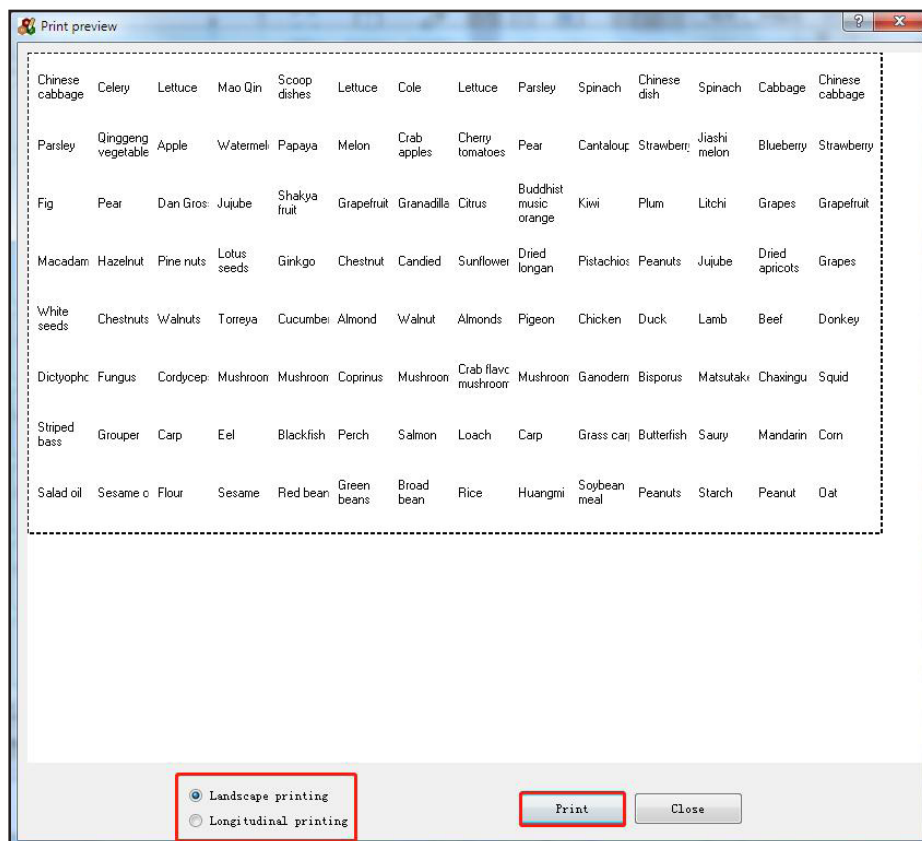


{Cut}	Cut current line
{Copy}	Copy current line
{Paste}	Paste the copied line above the current line
{Move To}	Move the current line to specified line, and original target line will be moved down
{Insert}	Insert a line above current line
{Delete}	Delete current line
{Sort by Name}	PLU is sorted by PLU name
{Sort by LF Code}	PLU is sorted by LF code
{Sort by Code}	PLU is sorted by code
{Fill Hotkey Card}	Hotkey editing preview
{Discount Table}	Set discount information
{Nutrition Table Set}	Set the nutrition table information for selecting nutrition

{Fill Hotkey Card}



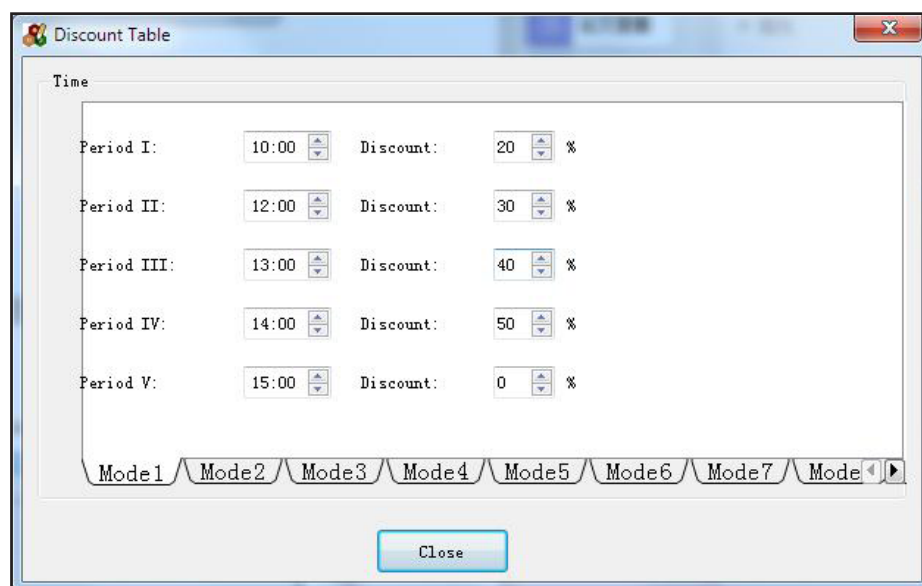
- **[Open]:** Open *.hotkey file
- **[Save]:** Save current hotkey file
- **[Save as]:** Save as a hotkey file
- **[Import PLU hotkey]:** Import hotkeys from main interface
- **[Save PLU hotkey]:** Save hotkey file in the table in main interface
- **[Print preview]:** Print preview
- **[Download]:** Download hotkey table
- **[Upload]:** Upload hotkey file



- [Print Preview]: Printing mode can be selected. Horizontal print or vertical print.

{Discount Table}

Set time-period discount information, 10 modes can be set (Mode1~Mode10).
For details, see [Discount /Schedule] on page 29.



{Nutrition Table Set}

Set nutrition element table for [Nutrition] selection of main interface table. For details, see page 29.
After the setting is completed, the “save and download” operation is needed for validating the setting.

	Nutrition name	Unit
1	VB	mg
2	VC	g
3	Calcium	mg
4	Heat	kJ
5		
6		
7		
8		
9		
10		
11		
12		

Save Cancel Download

DESCRIPTION OF MODULE: {Selection}

Selection Message Comm

- Select entire row
- Select block, column
- Select All
- Fill
- Clear
- Generate hotkey
- Generate LF Code
- Generate Code
- Generate Message ID

{Select Entire Row}	Select entire row
{Select Block, Column}	Select entire column
{Select All}	Check all PLU rows
{Fill}	Fill the value of selected column
{Clear}	Clear the value of selected row or column
{Generate Hotkey}	Batch generation of hotkey
{Generate LF Code}	Batch generation of fresh code
{Generate Code}	Batch generation of commodity number
{Generate Message ID}	Batch generation of Message ID

{Fill}

Using the filling of barcode type as an example, the operation steps are as follows:

1. Enter barcode type 2 at the beginning of the column to be filled.

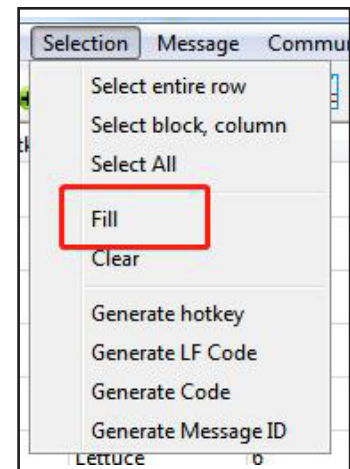
The screenshot shows the RTPLU software interface with a table of product data. The 'Barcode type' column is highlighted in blue, and the value '2' is entered in the first row of this column. A red box highlights the 'Barcode type' column header and the first row of data.

	Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department	Tare	Shelf time	Package type	Package We
1	1	Chinese cabbage	1	1	2	0.90	kg	0	21	0.000	15	Normal	0.000
2	2	Celery	2	2	0	1.40	kg	0	21	0.000	15	Normal	0.000
3	3	Lettuce	3	3	0	4.00	kg	0	21	0.000	15	Normal	0.000
4	4	Mao Qin	4	4	0	2.40	kg	0	21	0.000	15	Normal	0.000
5	5	Scoop dishes	5	5	0	0.50	kg	0	21	0.000	15	Normal	0.000
6	6	Lettuce	6	6	0	3.60	kg	0	21	0.000	15	Normal	0.000
7	7	Cole	7	7	0	2.10	kg	0	21	0.000	15	Normal	0.000
8	8	Lettuce	8	8	0	2.30	kg	0	21	0.000	15	Normal	0.000
9	9	Parsley	9	9	0	1.70	kg	0	21	0.000	15	Normal	0.000

2. Select the column.
Click {Selection} >> {Select block,column}, or directly drag mouse down to the position to be filled on the column.
3. Then click {Fill}. The selected column will be automatically filled with “2”.

The screenshot shows the RTPLU software interface with the 'Barcode type' column filled with the value '2' for all rows. The column is highlighted in blue.

	Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department
1	1	Chinese cabbage	1	1	2	0.90	kg	0	21
2	2	Celery	2	2	0	1.40	kg	0	21
3	3	Lettuce	3	3	0	4.00	kg	0	21
4	4	Mao Qin	4	4	0	2.40	kg	0	21
5	5	Scoop dishes	5	5	0	0.50	kg	0	21
6	6	Lettuce	6	6	0	3.60	kg	0	21
7	7	Cole	7	7	0	2.10	kg	0	21
8	8	Lettuce	8	8	0	2.30	kg	0	21
9	9	Parsley	9	9	0	1.70	kg	0	21



The screenshot shows the RTPLU software interface with the 'Barcode type' column filled with the value '2' for all rows. The column is highlighted in blue.

	Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department
1	1	Chinese cabbage	1	1	2	0.90	kg	0	21
2	2	Celery	2	2	2	1.40	kg	0	21
3	3	Lettuce	3	3	2	4.00	kg	0	21
4	4	Mao Qin	4	4	2	2.40	kg	0	21
5	5	Scoop dishes	5	5	2	0.50	kg	0	21
6	6	Lettuce	6	6	2	3.60	kg	0	21
7	7	Cole	7	7	2	2.10	kg	0	21
8	8	Lettuce	8	8	2	2.30	kg	0	21
9	9	Parsley	9	9	2	1.70	kg	0	21

{Generate Hotkey}

The operation is as follows:

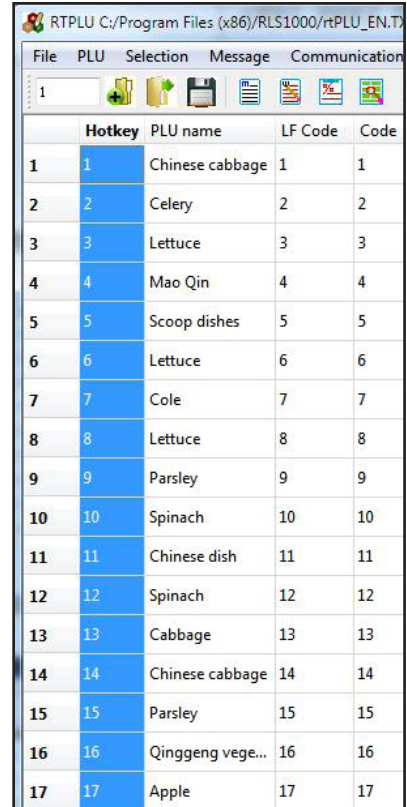
1. Input "1" at the beginning of the {HotKey} column.
2. Select column.
3. Click {Selection} >> {Select block,column}, or directly drag mouse down to the position to be filled on the column.
4. Then click {Generate hotkey} , the selected column will automatically generate hotkeys in order.



	Hotkey	PLU name	LF Code	Code
1	1	Chinese cabbage	1	1
2	0	Celery	2	2
3	0	Lettuce	3	3
4	0	Mao Qin	4	4
5	0	Scoop dishes	5	5
6	0	Lettuce	6	6
7	0	Cole	7	7
8	0	Lettuce	8	8
9	0	Parsley	9	9
10	0	Spinach	10	10
11	0	Chinese dish	11	11
12	0	Spinach	12	12
13	0	Cabbage	13	13
14	0	Chinese cabbage	14	14
15	0	Parsley	15	15
16	0	Qinggeng vege...	16	16
17	0	Apple	17	17



	Hotkey	PLU name	LF Code	Code
1	1	Chinese cabbage	1	1
2	0	Celery	2	2
3	0	Lettuce	3	3
4	0	Mao Qin	4	4
5	0	Scoop dishes	5	5
6	0	Lettuce	6	6
7	0	Cole	7	7
8	0	Lettuce	8	8
9	0	Parsley	9	9
10	0	Spinach	10	10
11	0	Chinese dish	11	11
12	0	Spinach	12	12
13	0	Cabbage	13	13
14	0	Chinese cabbage	14	14
15	0	Parsley	15	15
16	0	Qinggeng vege...	16	16
17	0	Apple	17	17



	Hotkey	PLU name	LF Code	Code
1	1	Chinese cabbage	1	1
2	2	Celery	2	2
3	3	Lettuce	3	3
4	4	Mao Qin	4	4
5	5	Scoop dishes	5	5
6	6	Lettuce	6	6
7	7	Cole	7	7
8	8	Lettuce	8	8
9	9	Parsley	9	9
10	10	Spinach	10	10
11	11	Chinese dish	11	11
12	12	Spinach	12	12
13	13	Cabbage	13	13
14	14	Chinese cabbage	14	14
15	15	Parsley	15	15
16	16	Qinggeng vege...	16	16
17	17	Apple	17	17

{Generate LF Code}

The method is the same as used for {Generate Hotkey}

{Generate Code}

The method is the same as used for {Generate Hotkey}

{Generate Message ID}

The method is the same as used for {Generate Hotkey}

DESCRIPTION OF MODULE: {Message}



{Message}

Set the display information of label components [Header] and [Bottom], and the welcome message of screen

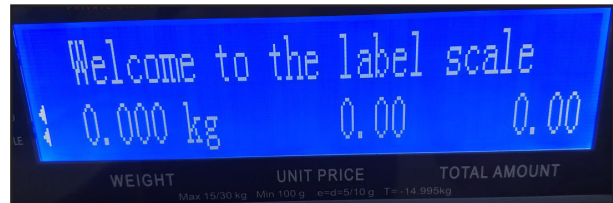
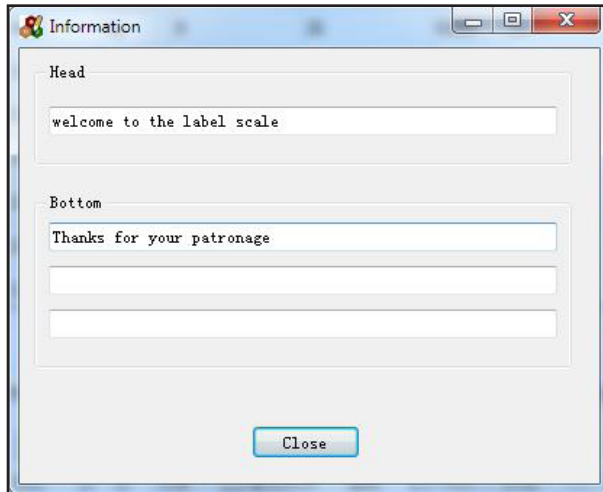
{Edit Message}

Edit information for Message1 and Message2

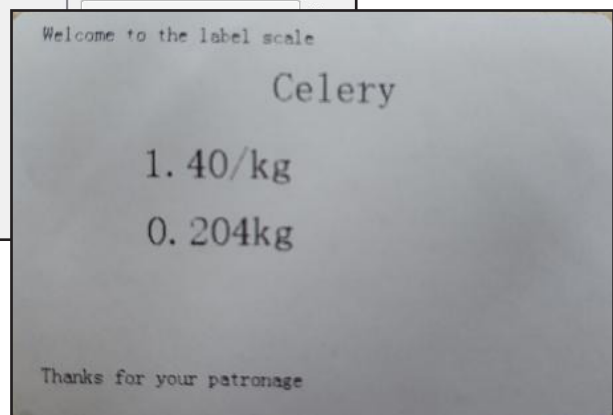
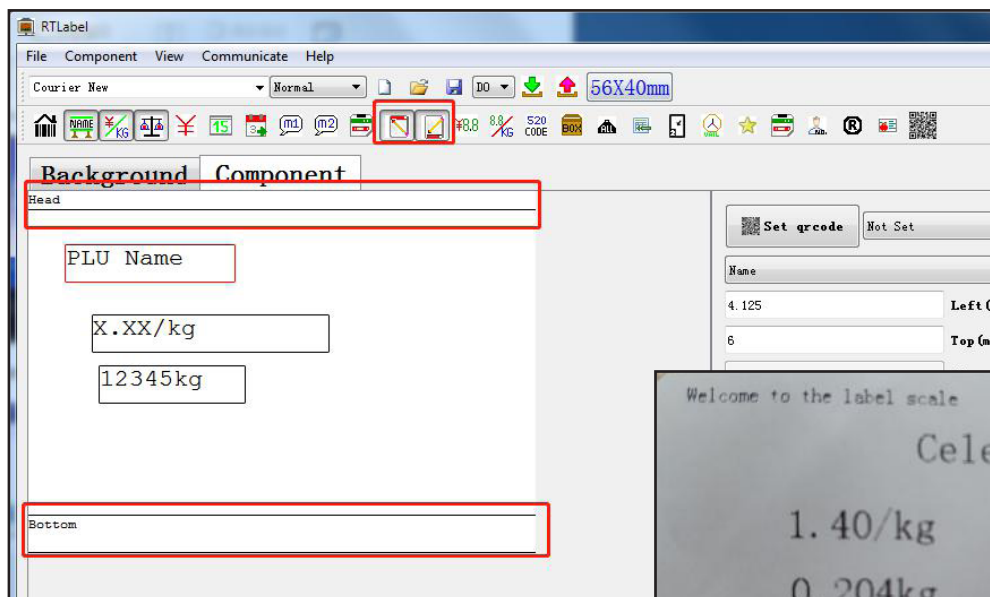
{Message}

Set the display information of label components [header] and [bottom], and the welcome message on the screen.:

1. After setting the above and downloading, the following subtitles will be displayed on the screen:



2. Put the [head] [bottom] component in the {Label editor} and download the information.

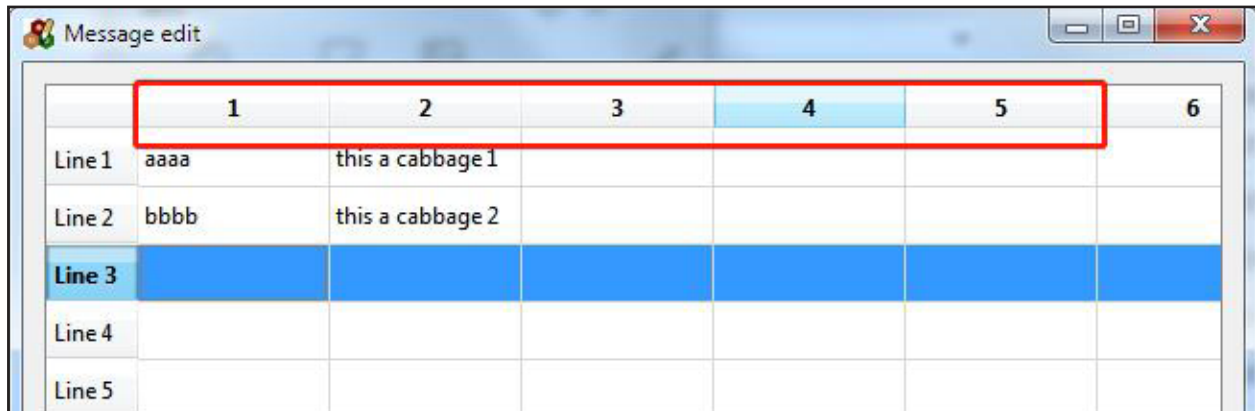


3. The print effect is as follows:

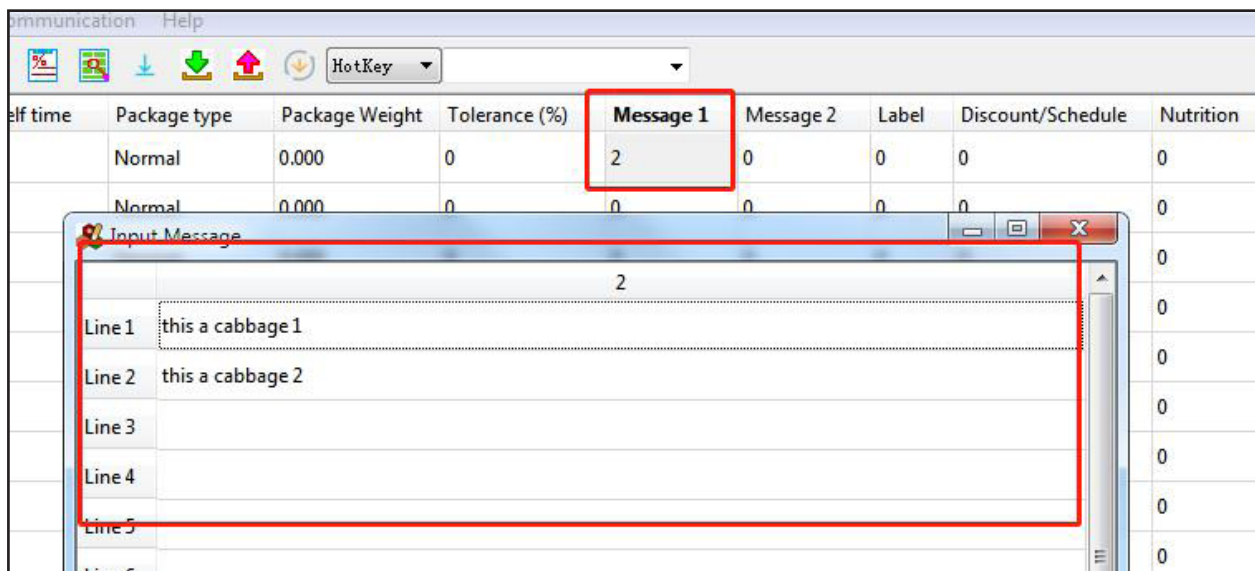
{Edit Message}

Set all the information of [Message1] and [Message2]

- **[Export]:** Export information file.
- **[Import]:** Import information file.
- **[OK]:** Save current settings.

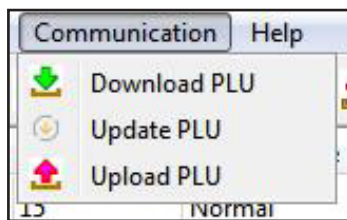


Double click the incoming information on the [Message 1] of main interface to display only a column of the information, corresponding to the above image. As shown in the following image, column [2] of Message 1 corresponds to column [2] of the above image.



After the information is set, click the toolbar to download information.

DESCRIPTION OF MODULE: {Communication}

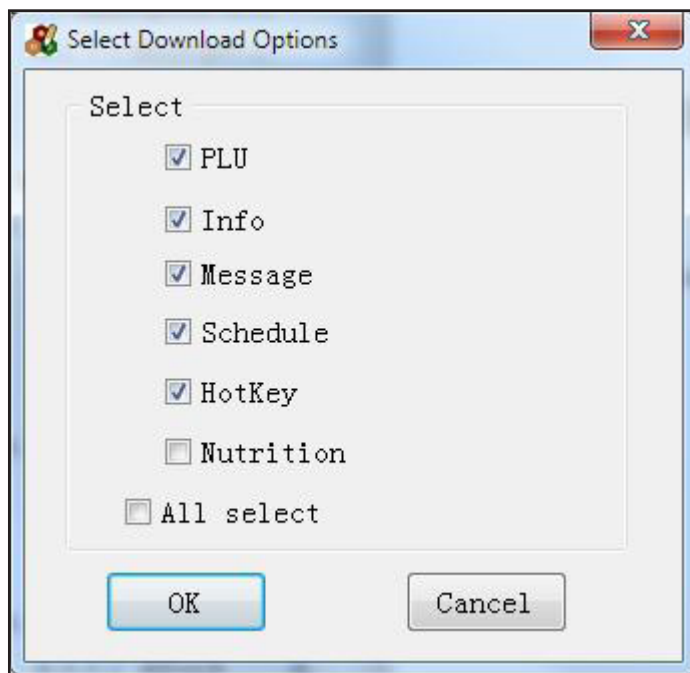


{Download PLU}	Download PLU
{Update PLU}	Update PLU
{Upload PLU}	Pload PLU information

{Download PLU}

When clicking and downloading a commodity, the following options will pop up. Then you can make selection based on your needs.

- **{PLU}**: Download PLU-related information
- **{Info}**: Download advertising-related information
- **{Message}**: Download message-related information
- **{Rebate}**: Download PLU discount-related information
- **{HotKey}**: Download hotkey-related information
- **{Nutrition}**: Download nutrition component-related information



{Update PLU}

Updates commodities. Only the information on existing commodities is updated here. The commodities on the scale will not be cleared before downloading.

{Upload PLU}

Uploads commodities from the scale. When uploading, a new file will be created before uploading.

APPENDIX

BARCODE CODING TABLE

Barcode Type	Department	Item #	Total Price	Weight	Check Sum
00~09: Ean13code, the first two code are department code:					
00	DD (2)	(10)	X	X	C
01	DD (2)	(6)	PPPP (4)	X	C
02	DD (2)	(5)	PPPPP (5)	X	C
03	DD (2)	(4)	PPPPPP (6)	X	C
04	DD (2)	(3)	PPPPPPP (7)	X	C
05	DD (2)	(6)	X	W.WWW (4)	C
06	DD (2)	(6)	X	WW.WW (4)	C
07	DD (2)	(5)	X	WW.WWW (5)	C
08	DD (2)	(5)	X	WWWW.W (5)	C
09	DD (2)	(5)	X	WWWWW (5)	C
10~19: Ean13code, the first two code are fix code:					
10	20 (2)	(10)	X	X	C
11	21 (2)	(6)	PPPP (4)	X	C
12	22 (2)	(5)	PPPPP (5)	X	C
13	23 (2)	(4)	PPPPPP (6)	X	C
14	24 (2)	(3)	PPPPPPP (7)	X	C
15	25 (2)	(6)	X	W.WWW (4)	C
16	26 (2)	(6)	X	WW.WW (4)	C
17	27 (2)	(5)	X	WW.WWW (5)	C
18	28 (2)	(5)	X	WWWW.W (5)	C
19	29 (2)	(5)	X	WWWWW (5)	C
20: Without barcode					
21~29: Ean13code, the first code is department code:					
21	D (1)	(7)	PPPP (4)	X	C
22	D (1)	(6)	PPPPP (5)	X	C
23	D (1)	(5)	PPPPPP (6)	X	C
24	D (1)	(4)	PPPPPPP (7)	X	C
25	D (1)	(7)	X	W.WWW (4)	C
26	D (1)	(7)	X	WW.WW (4)	C
27	D (1)	(6)	X	WW.WWW (5)	C
28	D (1)	(6)	X	WWWW.W (5)	C
29	D (1)	(6)	X	WWWWW (5)	C
30~35, 40~45: 18code, the first code is department code					
30 & 33	D (1)	(6)	PPPPP (5)	WW.WWW (5)	C
31 & 34	D (1)	(6)	PPPPP (5)	WWWW.W (5)	C
32 & 35	D (1)	(6)	PPPPP (5)	WWWWW (5)	C

Barcode Type	Department	Item #	Total Price	Weight	Check Sum	
39, 46~49: 18code						
39	DD (2)	(6)	PPPPP (5)	WWWWW (5)		
46	DD (2)	(6)	PPPPP (5)	WWWWW (5)		
47	DD (2)	(6)	PPPPP (5)	WWWWW (5)		
48	DD (2)	(6)	PPPPP (5)	WWWWW (5)		
49	DD (2)	(6)	PPPPP (5)	WWWWW (5)		
50~55: 8code						
50	X	(7)	X	X	C	
51	D (1)	(6)	X	X	C	
52	DD (2)	(5)	X	X	C	
53	X	(8)	X	X	X	
54	D (1)	(7)	X	X	X	
55	DD (2)	(6)	X	X	X	
Barcode Type	Department	LF Code	Batch Number	Discount	Weight	
36-38: 18code, the first code is department code, specialized for the LF code and batch code management						
36	D (1)	LLLLLL (6)	BBBB (4)	RR (2)	WW.WWW (5)	
37	D (1)	LLLLLL (6)	BBBB (4)	RR (2)	WWWWW.W (5)	
38	D (1)	LLLLLL (6)	BBBB (4)	RR (2)	WWWWW (5)	
Barcode Type	Department	LF Code	Discount	Batch Number	Weight	Check Sum
66~68, 18code, specialized for the LF code and batch code management						
66	D (1)	LLLLL (5)	BBBB (4)	RR (2)	WW.WWW (5)	C
67	D (1)	LLLLL (5)	BBBB (4)	RR (2)	WWWWW.W (5)	C
68	D (1)	LLLLL (5)	BBBB (4)	RR (2)	WWWWW (5)	C
Barcode Type	Department	Item Number	Total/Unit Price	Weight	Check Sum	
60~65, ISBN code, one of 18 code						
60	D (1)	(6)	PPPPP (5)	WW.WWW (5)	C	
61	D (1)	(6)	PPPPP (5)	WWWWW.W (5)	C	
62	D (1)	(6)	PPPPP (5)	WWWWW (5)	C	
63	D (1)	(6)	UUUUU (5)	WW.WWW (5)	C	
64	D (1)	(6)	UUUUU (5)	WWWWW.W (5)	C	
65	D (1)	(6)	UUUUU (5)	WWWWW (5)	C	
Barcode Type	Department	Item Number	Quantity/Weight	Total Price	Unit Price	Check Sum
90~95: 18code, the first two codes are department code:						
90	DD (2)	(6)	WW.WWW (5)		UUUU (4)	C
91	DD (2)	(6)	WWWWW.W (5)		UUUU (4)	C
92	DD (2)	(6)	WWWWW (5)		UUUU (4)	C
93	D (1)	(6)		PPP.PP (5)	UUU.UU (5)	C
94	DD (2)	(5)	WWWWW.W (5)	PPP.PP (5)		C
95	DD (2)	(6)	WWWWW (5)		UUUU (4)	C

Letter meaning in the form are as follows:

- C: CHECKSUM
- D: Name of department.
- 2: Fixed No.“2”
- I : Code
- L: LF code
- P: Total price
- U: Unit price
- R: Discount
- W: Weight
- X: NA
- Ean13 code= DEPARTMENT+ CODE+ [TOTAL PRICE]+[WEIGHT]+C
 - Among them: The item with [] indicates the type of barcode, which may not be included in this barcode
 - For Ean13 code, if barcode shows price, barcode type often chooses 2 or 22.
If the barcode shows weight, barcode type often chooses 7 or 27
- CHECKSUM is calculated automatically by the scale, so you don't need to use the PLU manager
- The difference between 30-32 and 33-35 format is calculation method of CHECKSUM
- The difference between 40-45 and 30-35 format is in 30-35, price is total price, but in 40-45, price is unit price
- 36-38, 66-68 barcode types can be used for fresh batch management (batch number written with code field, PLU number written in LF code field. 60-65 are ISBN codes).

The calculation method of check code Z in EAN13 code:

1. (even digits sum*3) + odd digits, sum+Z = 10 multiple
2. (barcode type: 30-32, 40-42)

Two calculation methods of check code Z in EAN18 code:

1. The same as EAN13 code
2. (add digits sum*3) + even digits sum + Z = 10 multiple, (barcode type: 33-35, 43-45)

FRESH COMMODITIES BATCH MANAGEMENT

The advantages of fresh batch management:

Tracking fresh commodities for each batch, checking stock of each batch alone, using different discounts based on different storage time within a quality guarantee period, getting a warning when commodities are about to expire

The base process of fresh commodities batch management is as follows:

Generate a batch number for fresh commodities with batch management. Format: Year (1) + which week (2) + which day in a week (1), and total four digits. Print out commodity name, number, batch number, and add it to the batch so the packing person can recognize the commodity. The label printing scale can perform the batch management function. This method allows you to add three kinds of barcode types. The three kinds of barcode types are as follows:

Barcode Type	Department	LF Code	Batch Number	Discount	Weight	Check Sum
36-38: 18 code, front code is department code, unique for fresh batch management						
36	D (1)	LLLLLL (6)	BBBB (4)	RR (2)	WW.WWW (5)	
37	D (1)	LLLLLL (6)	BBBB (4)	RR (2)	WWWWW.W (5)	
38	D (1)	LLLLLL (6)	BBBB (4)	RR (2)	WWWWW (5)	
66~68: 18 code, unique for fresh batch management						
66	D (1)	LLLLL (5)	BBBB (4)	RR (2)	WW.WWW (5)	C
67	D (1)	LLLLL (5)	BBBB (4)	RR (2)	WWWWW.W (5)	C
68	D (1)	LLLLL (5)	BBBB (4)	RR (2)	WWWWW (5)	C

Letter meaning in the form are as follows:

- D: Department No.
- P: Total price
- I: PLU No.
- R: Discount
- L: LF code
- W: Weight

NOTE:

1. LF code corresponds to a commodity code in backstage management system.
The PLU number is corresponding to a batch number in the backstage management system
2. Batch management is for commodity packing backstage, not real-time selling.
3. Here's how to distinguish batch vs. nonbatch commodities:
 - Set different department numbers. For example: the department number of a commodity without batch management is 2, and with batch management is 3
 - Because the position and length of LF code in two kinds of 18 code is the same, decode the LF code first, and then distinguish the batch commodity. Using this method, enter the PLU, and the screen will display the input batch number. Input the four-digit code, enter in weight, and click "Ok".