



Barcode Label Scale

Software User Manual

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1. Introduction

1.1 About the 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, but it does not matter. We believe that you can flexibly use the system to solve practical problems.

This software is applicable to various Rongta label scale series, RLS1000/RLS1100/RLS1000A/RLS1100A/RLS1000B/RLS1100B/RLS1000C/RLS1100C/RLS1000D/RLS1100D/RLS1315/RLS1330/RLS1515/RLS1530/LS015.

1.2 Definition

Note: 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
	Scale	Rongta's label scale
3	...	

1.3 Manual-Writing conventions

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

Word Description	Symbol	Example
General button or graphic button	【 】	“OK button” can be simplified as: [OK]
General menu item or tree structure menu item	【 】	“Click File menu” can be simplified as: Click 【File】

Word Description	Symbol	Example
Press left-button of mouse to click on an object	click	"Click OK button" can be simplified as: Click [OK]
Select an object and press right-button of mouse	right click	"Select My Documents folder and press right-button of mouse" can be simplified as: right click "My Documents".
Double click left-button of mouse to open an object	double click	"Double click left-button of mouse to open "picture" file" can be simplified as: double click "picture".
Continuously select menus and their submenus or tree structures	>>	Select [File] >> [New]
File, form, or tab	“”	"set function" page
Item in form	『 』	『Port』
This feature is temporarily not be used.	retained	(retained)

2. System Overview

2.1 System function

The software is mainly used for the management of Rongta Label Scale, downloading the information required by scale, such as item, label, font, etc. to label scale so as to weigh specific item, calculate corresponding price and print label to complete the sales process of the item.

Module features: the following features are provided:

Module RLS1000:

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, etc.

Module PLU Manager:

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

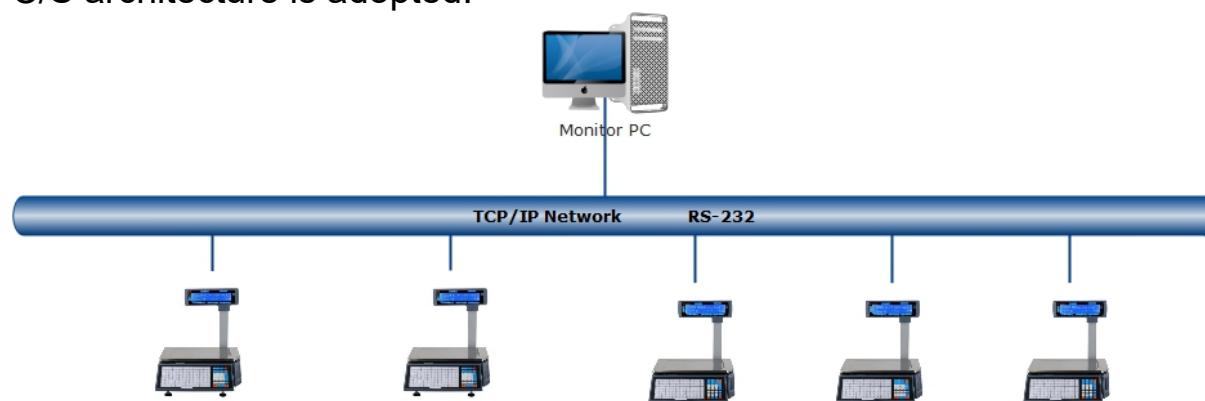
Module Label Editor:

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

2.2 Operating environment

2.2.1 Network environment

C/S architecture is adopted.



2.2.2 PC terminal

Hardware Platform	CPU: 1.5GHz or over; memory: 512M or over; hard disk space: 50G or over and other detailed configuration.
Operating System	Windows 7 and above Operating System

3. System Installation Instruction

3.1 Software installation

Run as administrator the installation package with  RLS1000_SETUP_V2.000_T2.exe, and then appear following image: Image 3.0:

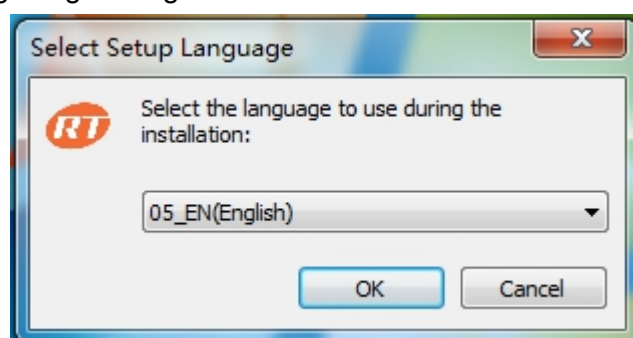
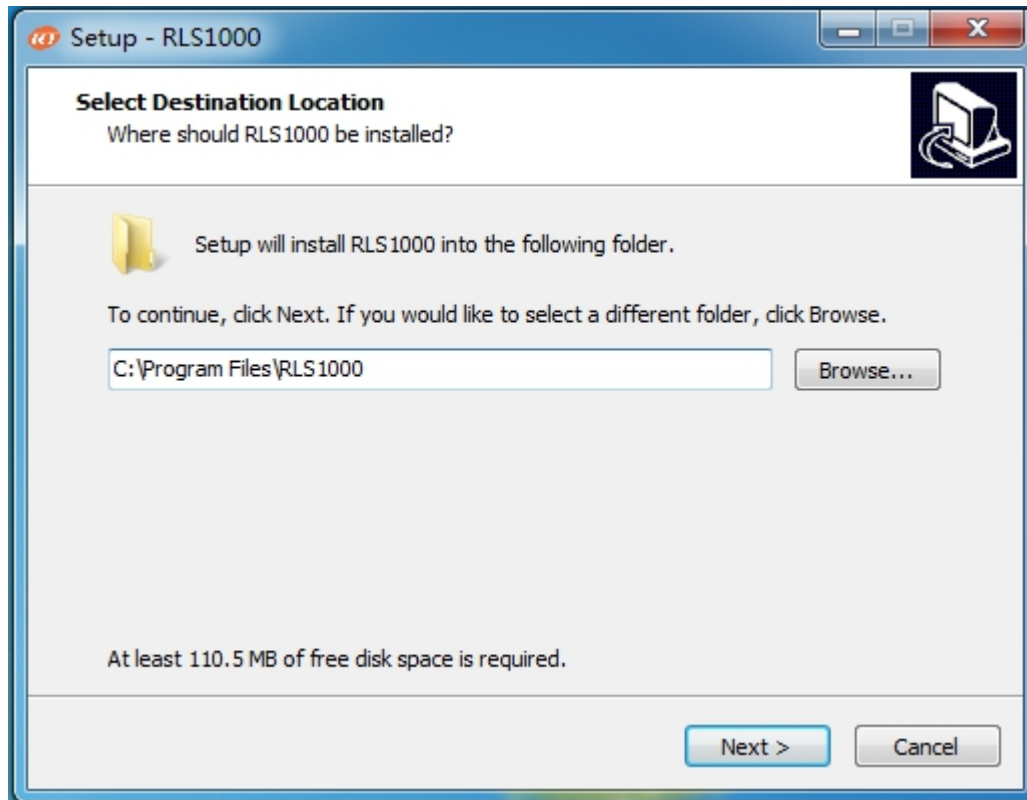


Image 3.0



Select the language to use during the installation, click the "OK" , and then appear following image: Image 3.1:

Image 3.1

Click "next" to select default installation path of program Files of C drive, or select "browse" to choose self-definition installation path. Such as installed to G drive, and then appear Image 3.2

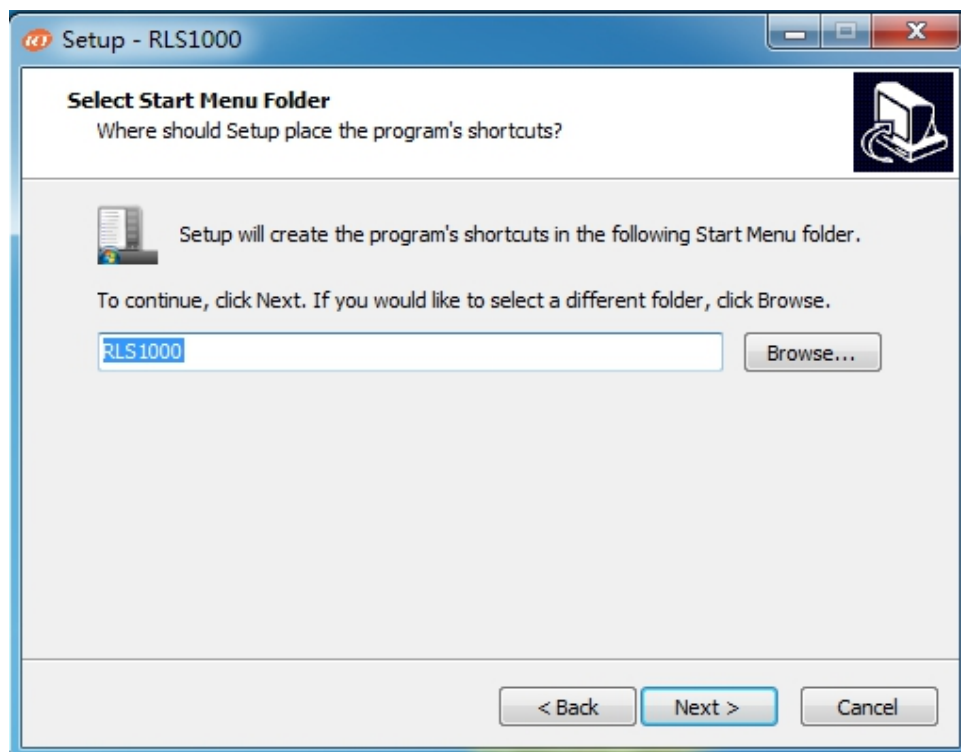


Image 3.2

Click “Next”, then appear Image 3.3:

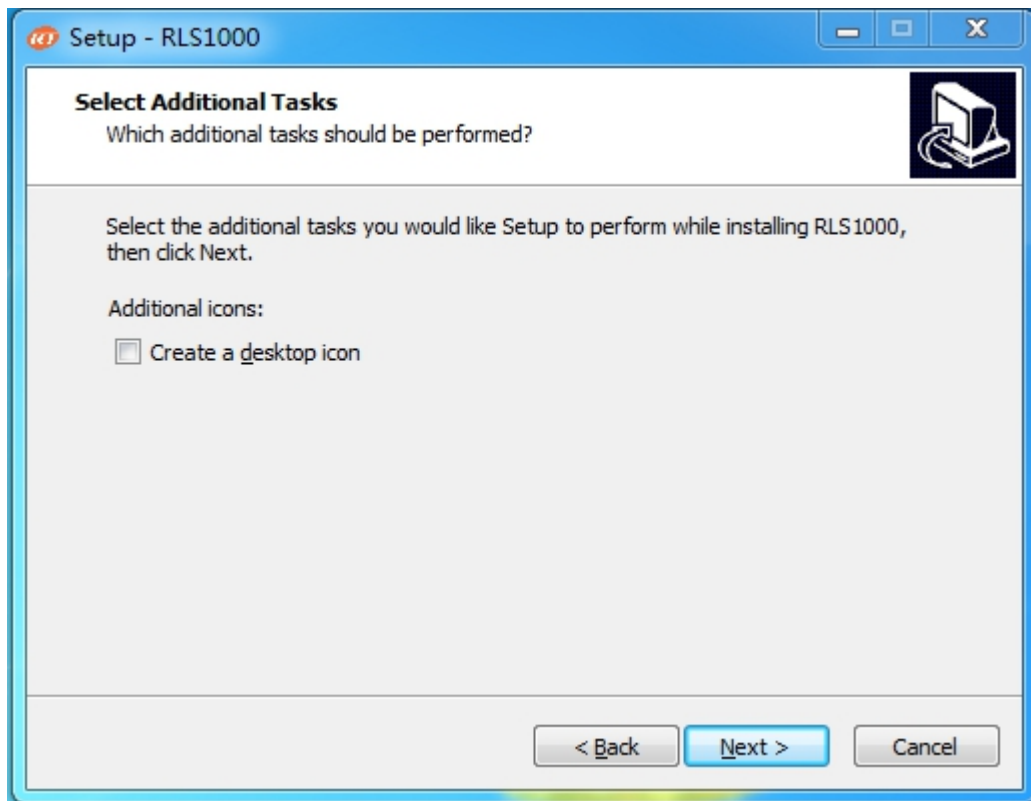


Image 3.3

Click “Next”, then appear Image 3.4:

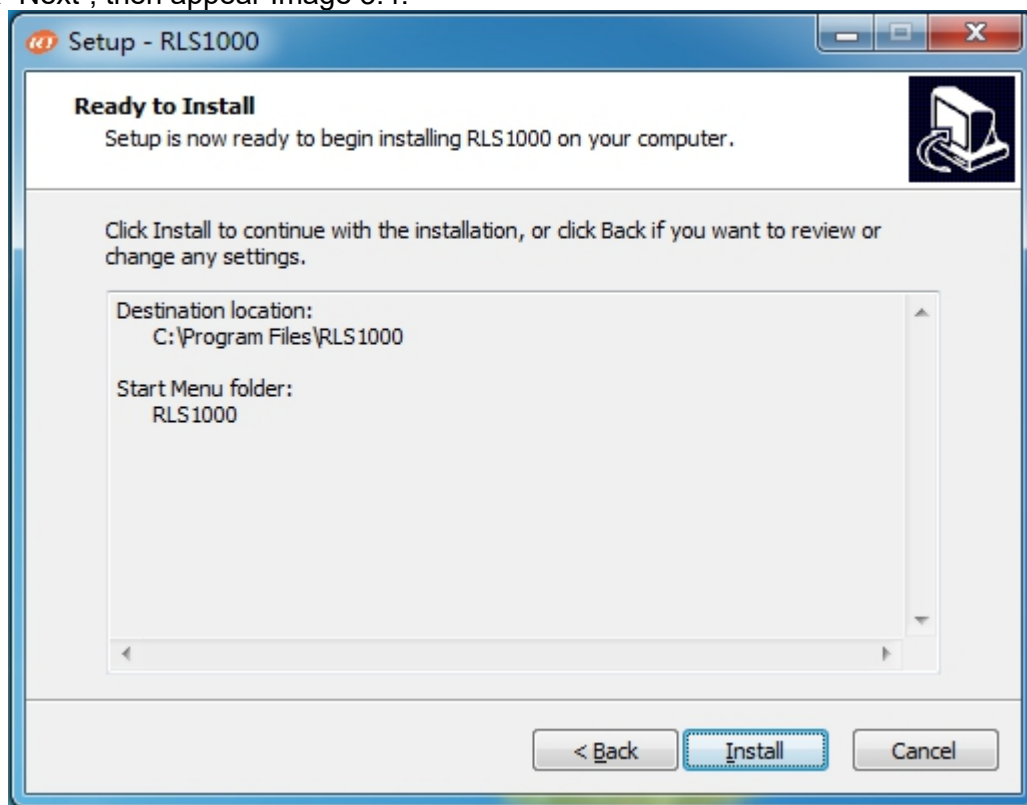
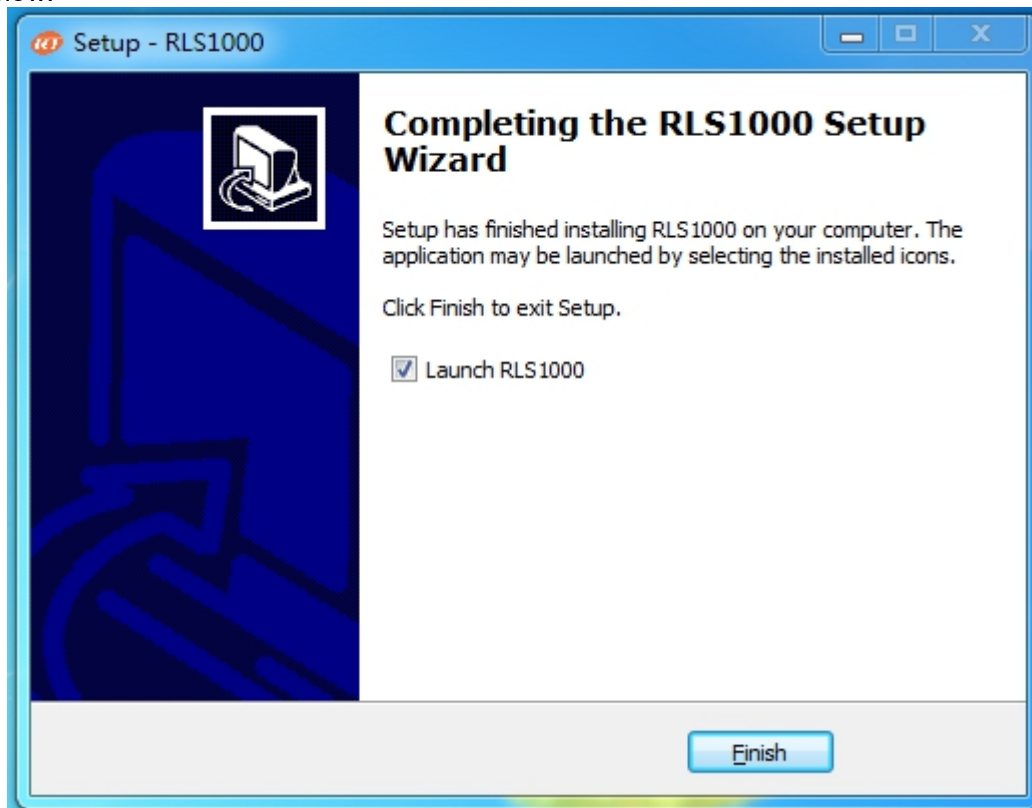


Image 3.4

Click “Install” to continue next step, then start to install. the interface after finishing installation is as below:



After finishing, can choose to operate RLS1000 or not.

4. Description of Function Modules and Interface Display

4.1 Module RLS1000

This module is mainly used for performing connection management for label 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, viewing transaction-detail report, etc.

4.1.1 Description of Module [File]

File	Communication	Download upd	
New	Ctrl+N		new connection list
Open	Ctrl+O		open existed connection
Save	Ctrl+S		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 RLS1000 software
Exit			Exit the RLS1000 software

4.1.1.1 [New]

Open [File] >> [New], or click the icon  on the toolbar, then appear the following image.

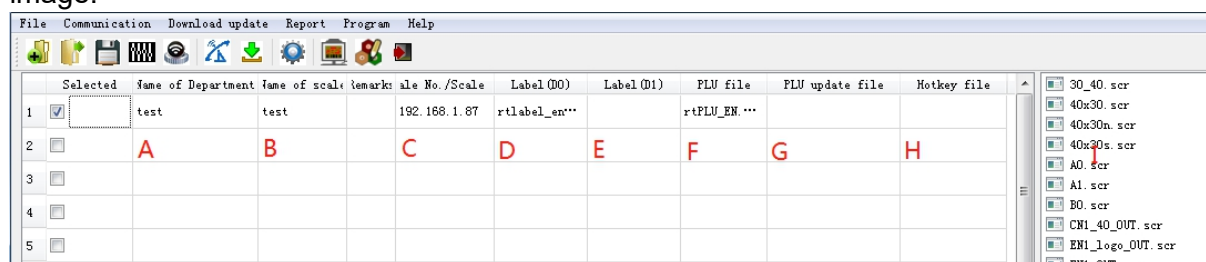


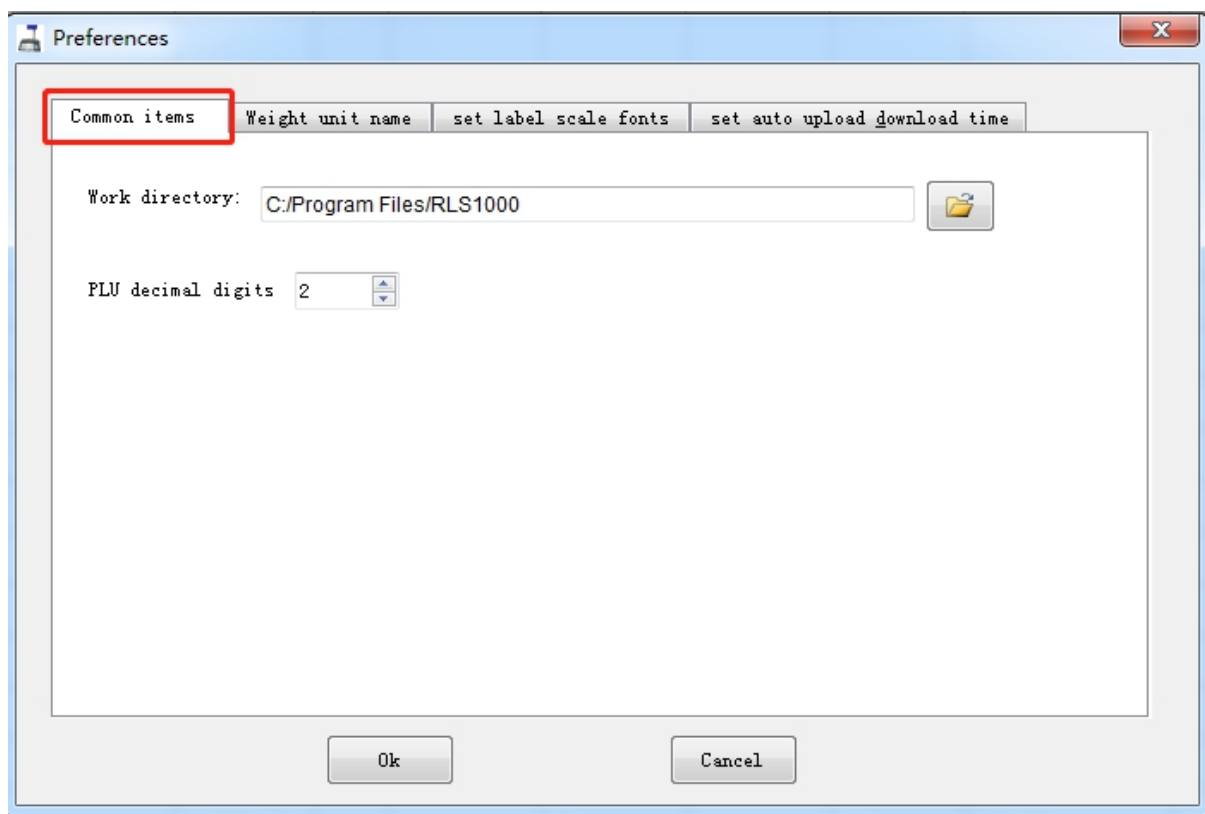
Image 4.1

On above image:

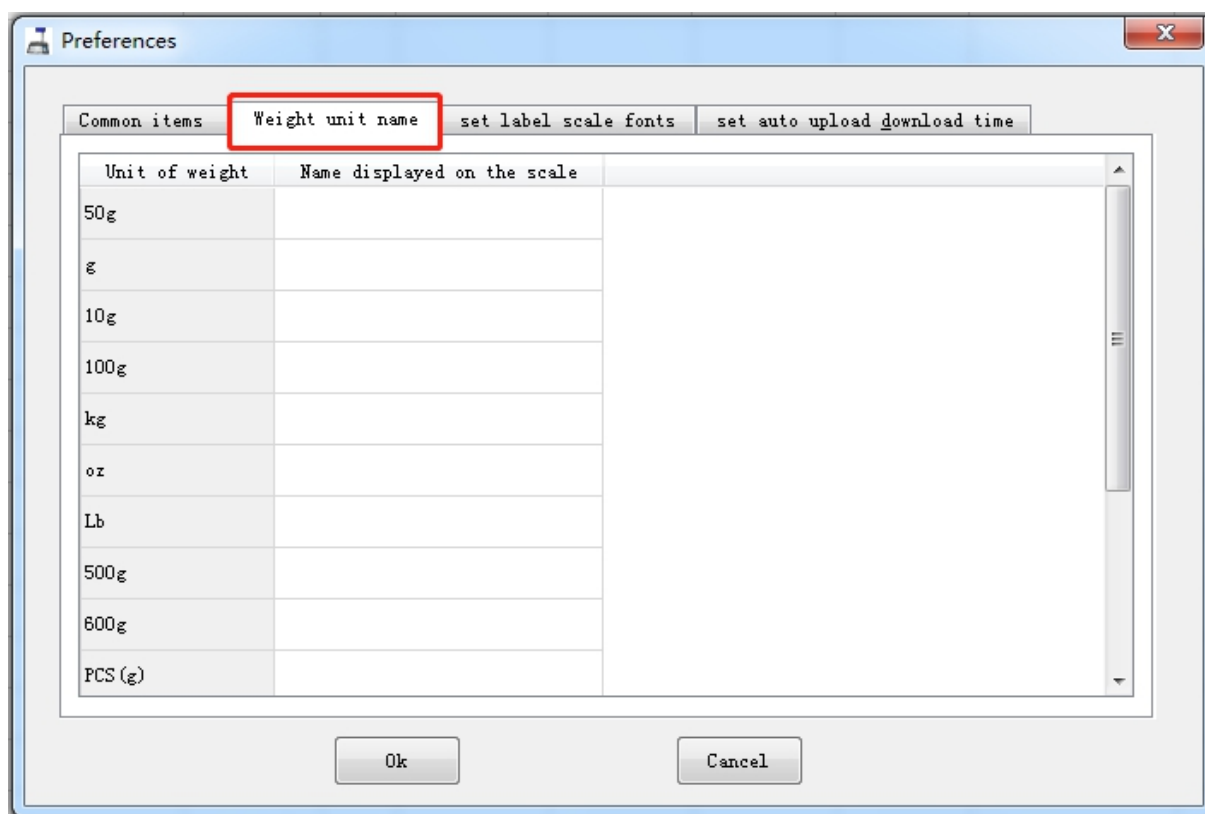
- input the name of label scale department
- Input the name of label scale
- input the IP add. of label scale
- Click D0 label column, double click to select label in I area.
- Click D1 column, double click to select label in I area.
- (*TXP)click PLU column, double to select PLU in I area.
- (*TXP)click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

4.1.1.2 【Preferences】

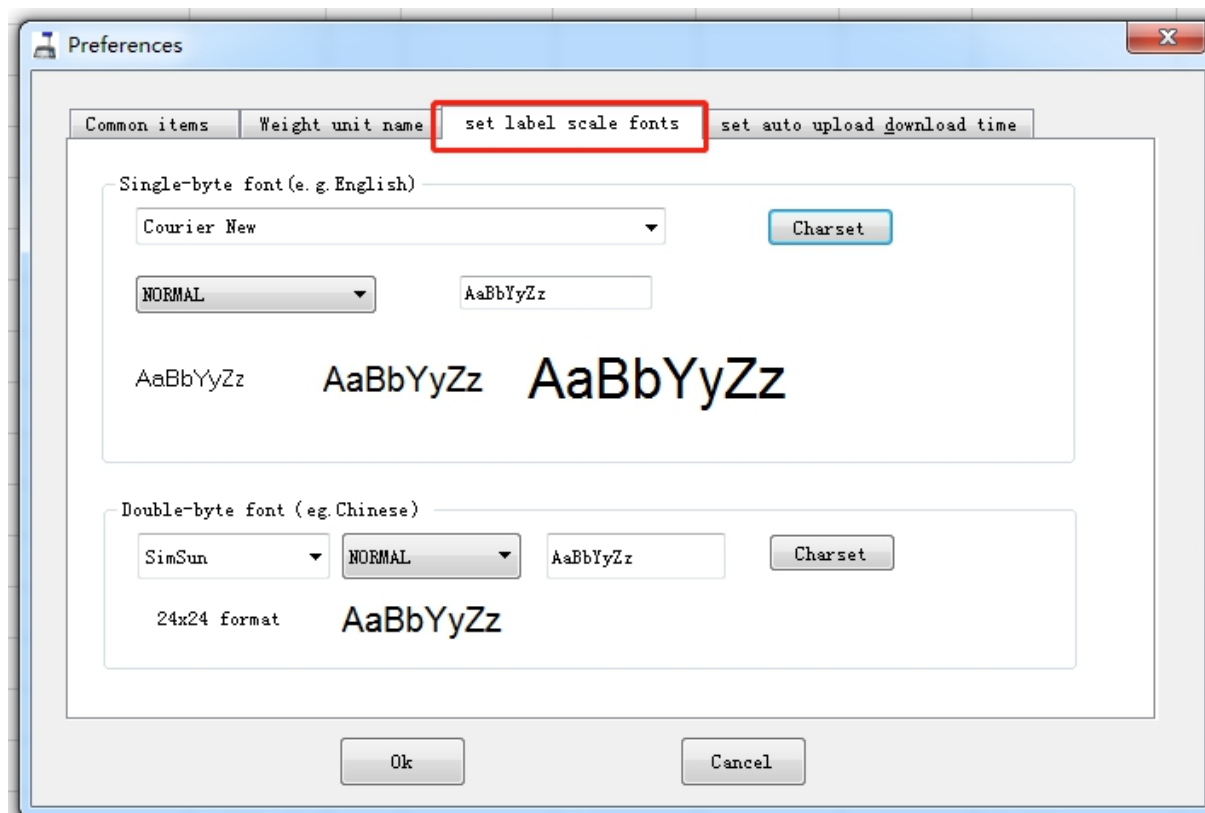
Open 【File】 >> 【Preferences】 , or click the icon  on the toolbar, then appear the following image.



Working 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.

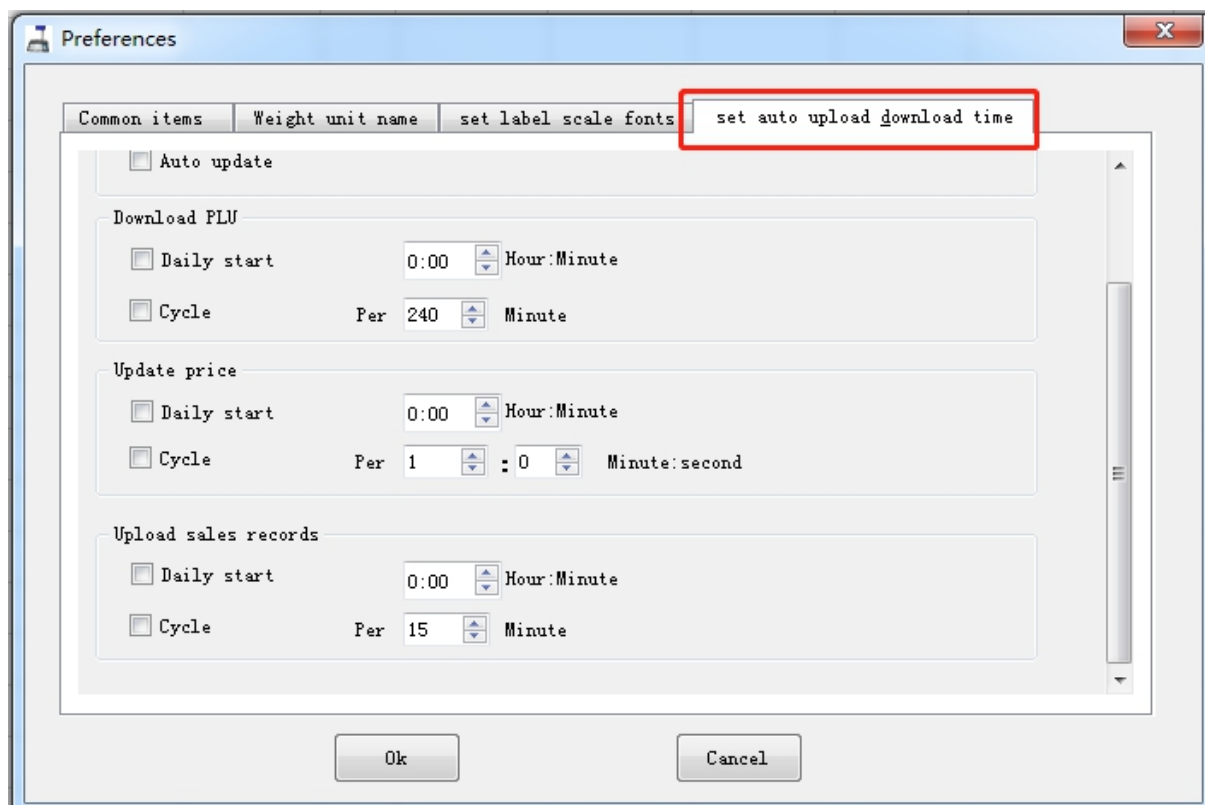
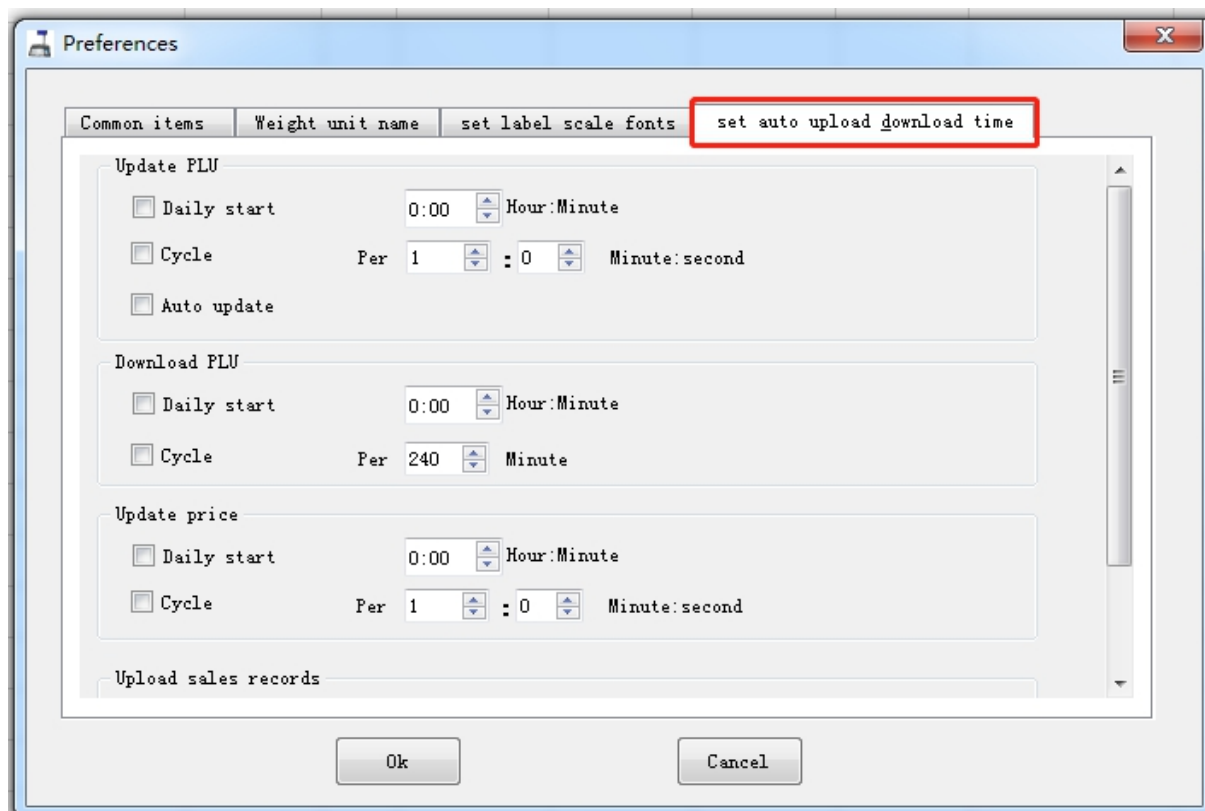


Function: Set the font displayed on the scale screen and the font of label to be

printed.

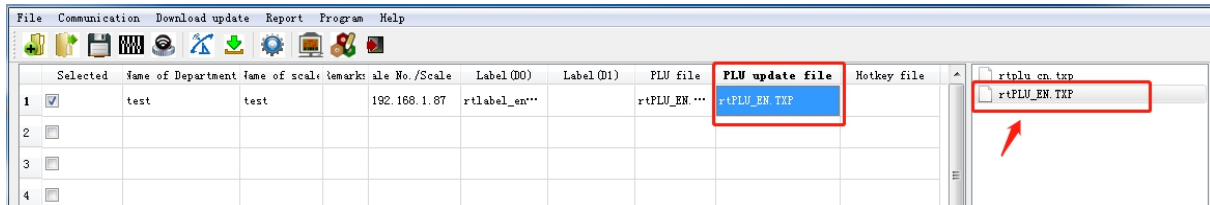
Sing-byte font (e.g. English): for single-byte fonts, fonts other than Chinese characters, such as English.

Double-byte font (e.g. Chinese): 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 firstly 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 the work every day.

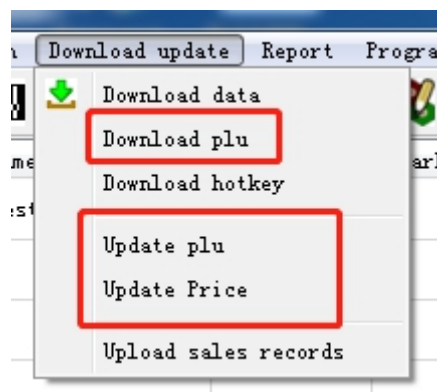
Cycle: A period for a whole process, namely after a specific period relevant work will repeat.

【Download Plu】 : Download all PLU.

【Update Plu】 : Only changed PLU information is to be downloaded.

【Update Price】 : Only price is to be updated.

【Update sales records】 : Upload the sales record of the scale



4.1.1.3 【Set function】

Image [Setting] (part 1)

Scale set function

- Basic setting1 - Basic setting2 - Advanced function - Weight unit - Custom barcode - Security	Paper type	Label paper	Default Label	D0
	Barcode type	0	Package tolerance	5
	Date format	MMDDYY	Year format	YY
	Decimal Digits	0.00	Total price precision	N.NN
	Rounding	5	Barcode print method	Width int 2/5
	Message 1	0	Message 2	0
	Hardware option	Long screen, new keyboard, exit and print		
	Backlight brightness level	0	Allow print zero weight	No print
	Sleep time(Minute)	0	Copies	0
	☐ Enable by-weight & by-piece label type All by-weight label type: All by piece label type:		☐ Enable by-weight & by-piece barcode type All weighing barcode type: All by-piece barcode type:	

Scale set function

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

〔Basic setting〕

paper type: set the paper type label Paper; receipt Paper; Highly adhesive Paper.

barcode type: Set the barcode type 0~110

Date format: set the date format of the scale

0:DDMMYY;1:MMDDYY;2:YYMMDD(D:date; M:month; Y:year) .

Decimal digits: set the price decimal (0:0; 1:0.0; 2:0.00; 3:0.000)

Rounding: setting the rounding off

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

Message2:set Message2 (0~197)

Message1:set Message1 (0~10000)

File PLU Edit PLU Selection Info Communication Help													
          HotKey ▼													
	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	

Message1and Message2 if you set in the 〔PLU manager〕 >0,it will follow the PLU manager, otherwise it will follow the setting

hardware Option: set the scale type(keyboard)

0: Long screen, old keyboard, exit and print

1: Long screen, old keyboard, not exit

2: Long screen, new keyboard, exit and print (default)

3: Long screen, new keyboard, not Exit

4: Square Screen, old Keyboard, exit and print

5: Square screen, old keyboard, not exit

6: Square screen, new keyboard, exit and print

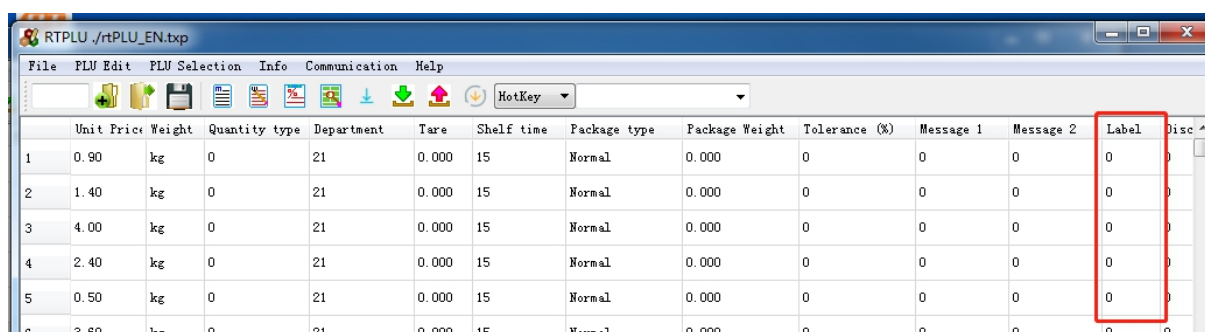
7: Square screen, new keyboard, not exit

Backlight brightness level: scale screen brightness adjust (0~4 0:Full bright 4:darkest)

Copies: this means you press the copy button, how many copies it will print

Default label: 0: A0 1: A1 2: B0 3: B1 4: C0 5: C1 6: D0 7: D1 8: E0 9: E1

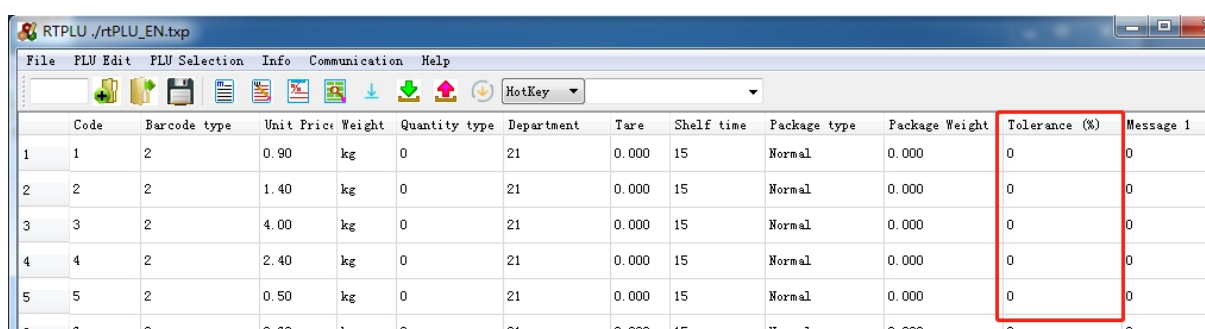
If you did not set in PLU manager, the label type will the same as Default label.



	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: package tolerance for the fixed weight function, (0-20%)

If you did not set in PLU manager, the package tolerance will the same as 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: total price 1.456, if you choose 1, it will be 1.50, 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

Allow print zero weight: when the weight is zero 0:Manual print(press enter can print)

1:No print 2:Auto print

Sleep time(Minute): (0~200) 0:Close others: Sleep time

Enable by-weight & 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 && 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)

Print weight unit of unit price: whether print the unit of 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 fixed weight (i.e. package type is set as fixed weight). When automatic printing labels, this item 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. If not, only message 1 is enabled

No print EAN-13 barcode: When checked, check digit will not be printed

No print after price change: When the unit price is changed, if checked, no label printed, otherwise it will be printed 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 be printed)

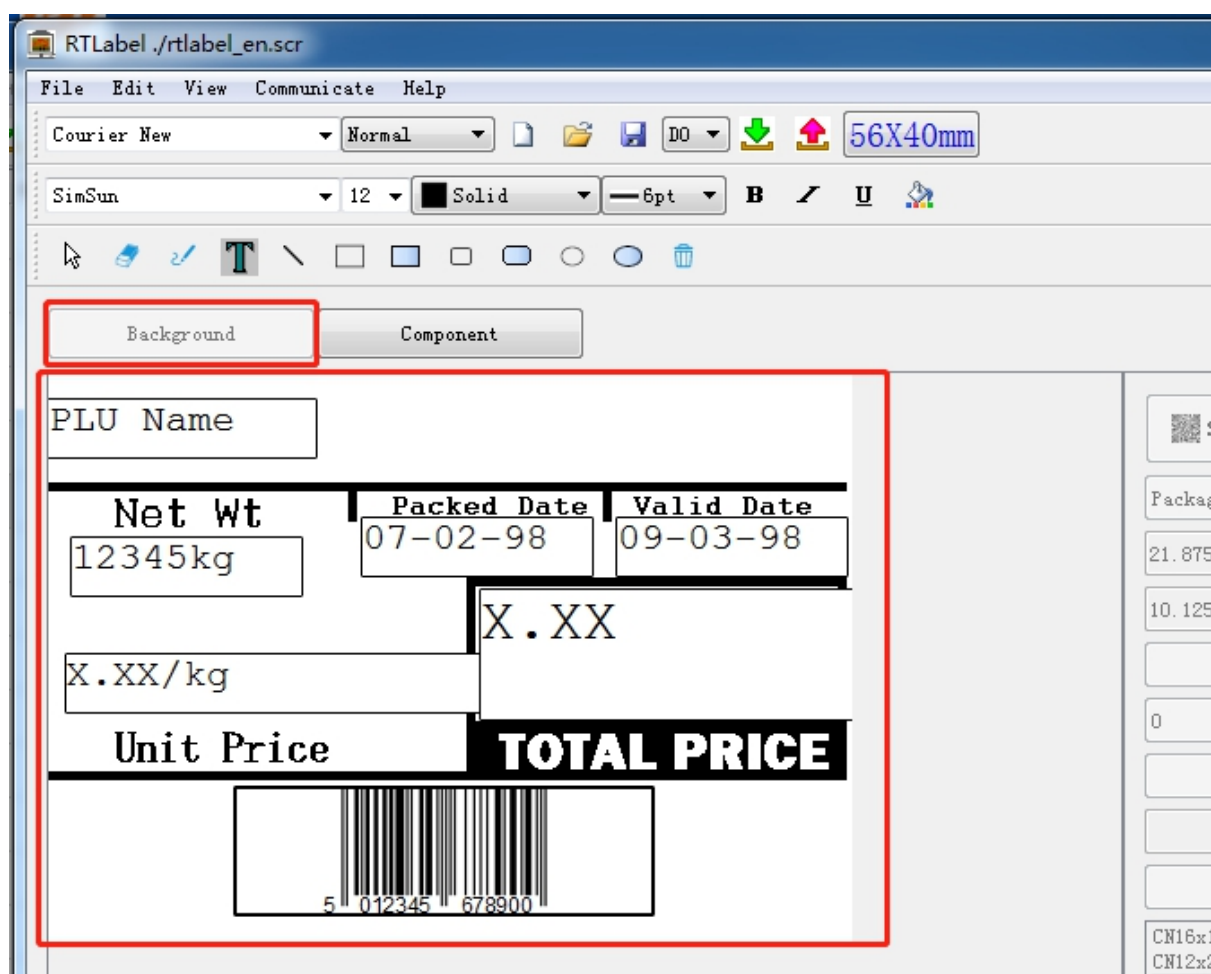
show unit in total price & unit price column: show the unit of total price & unit price (this function is for the specified firmware version)

Close permanently change price: turn off the permanently price changing function

Close print zero weight price label: when weight is 0, label printed or not (this function is for the specified firmware version)

Label print month in English abbreviations: month is expressed by English abbreviations in fields related to the date, such as 19-10-30-> 19-OCT-30

Print Background: Whether to print the background of the label, as shown below, If turn it off, background will not be printed



Use extended hotkey: (retained)

Print time: if checked, date field (such as valid date, packed date) will be printed with specific time, for example "10-17-19 11:12", Otherwise only print such date as "10-17-19"

Print weight unit of weight: if to print units of weight or not, for example 5.12 kg

Use original price in barcode: if checked, original price showed in label; otherwise, the current price.

Anti-wind: Prevent wind from interfering with the scale

Total price discount: if checked, the unit price will be shown as original price in the day book uploaded; if not checked, shown as discount price

Discount PLU belongs to Department23: PLU that have been discounted belong to the department 23

Use extended shelf time: (retained)

Allow print zero price: label printing is allowed when the price is 0

power-on auto print by default: Turn on the automatic printing function, when an item on the scale, label will be printed automatically after press the hot key

Long press [Price] to enable permanently change price: When enabled, long press [Price] to change the Price permanently; If not enabled, short press [Price] to change the Price permanently

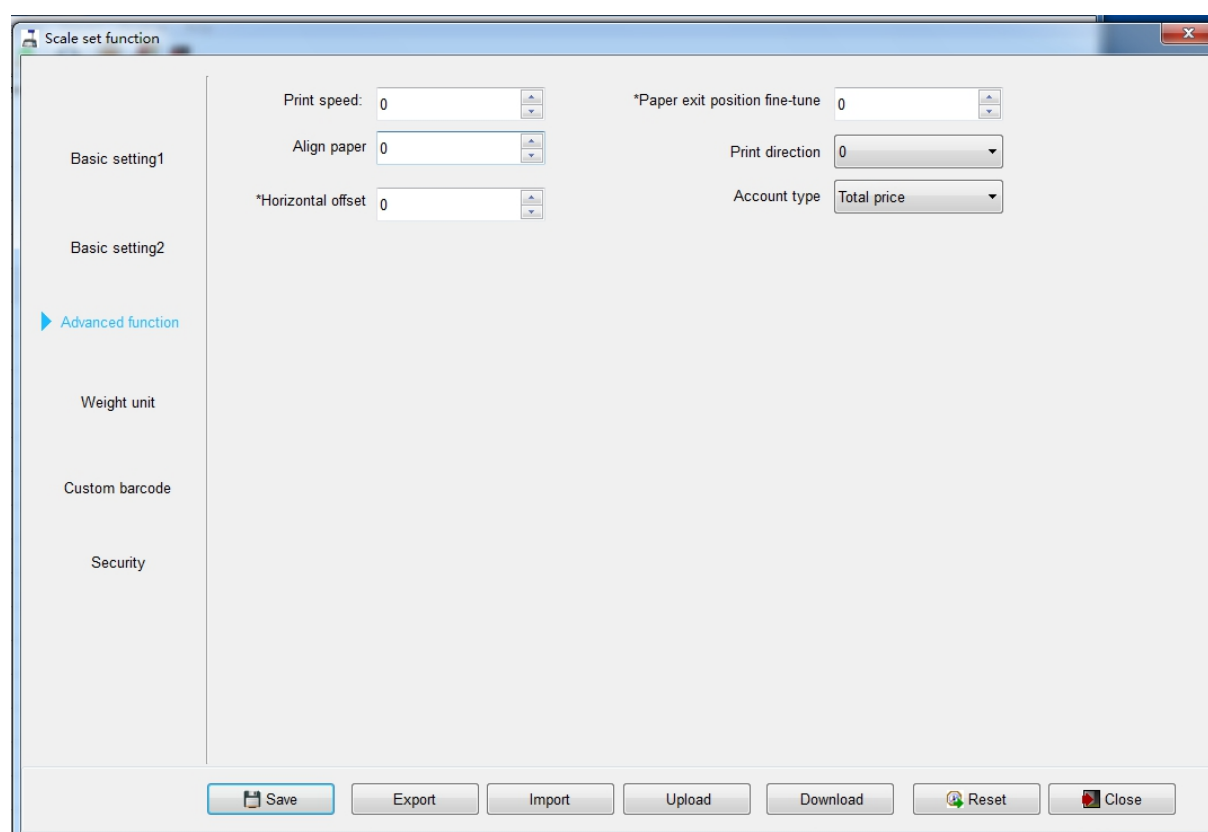
Close allow specify total Sales: if turn off the function [Press Number + Total price and print]

Scale send weight from serial port: The weight from the scale can be obtained from 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 unit price, press [NET CHECK/SET AMT] Button, label will be printed automatically

Price by auto transformation from KG to 500g: When the weight in kg, Unit price is converted into 500g to calculate, for example usd 0.9/kg-> usd 0.45/500g

Image[Setting](part 2)



[[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 life span of 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]]

Choose the units to be used on the scale. Should be checked if need use.

[[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 length limited.

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

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

Weight/Quantity Decimals: set the decimal digit of weight or quantity 0-3

[[Security]]

Function: Set the function password lock to prevent some parameters from being changed. After setting, enter the relevant function, you need to enter a password.

Lock system function: Long press [SETTING] of the scale, set the password

Lock account button: (retained)

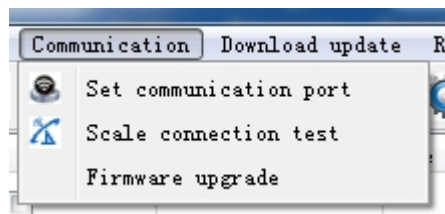
Lock PLU button: Long press [PLU] button of the scale, set the password before editing

Lock discount button: Long press [DISCOUNT] button of the scale, set the password

Lock tare button: Long press [TARE] button of the scale, set the password

Only PLU Key: When this function is enable, you could not input the LF Code by pressing [PLU] button of the scale, can only use hotkey to input the LF Code.

4.1.2 Description of Module 『Communication』

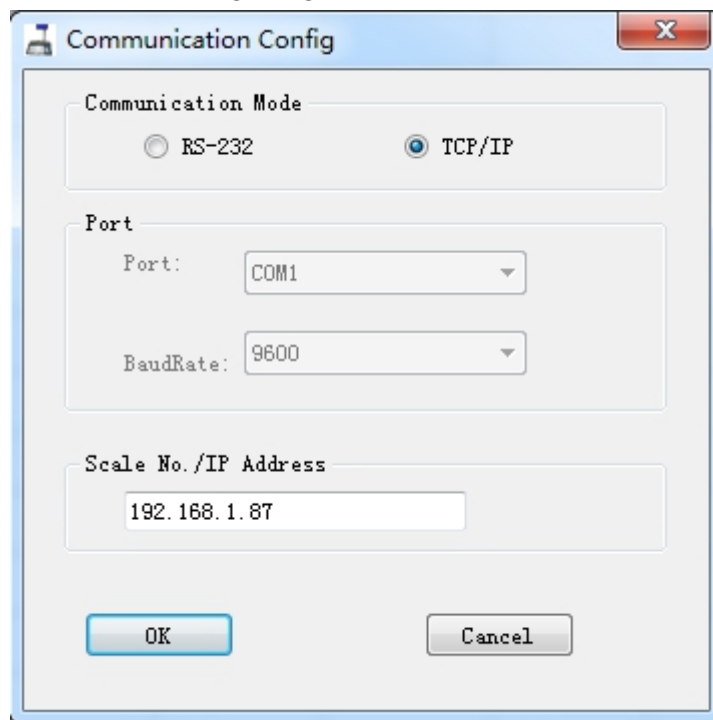


4.1.2.1 『Set communication port』

Open 『Communication』 >> 『Set communication port』, or click the toolbar, then appear the following image.



the icon on



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

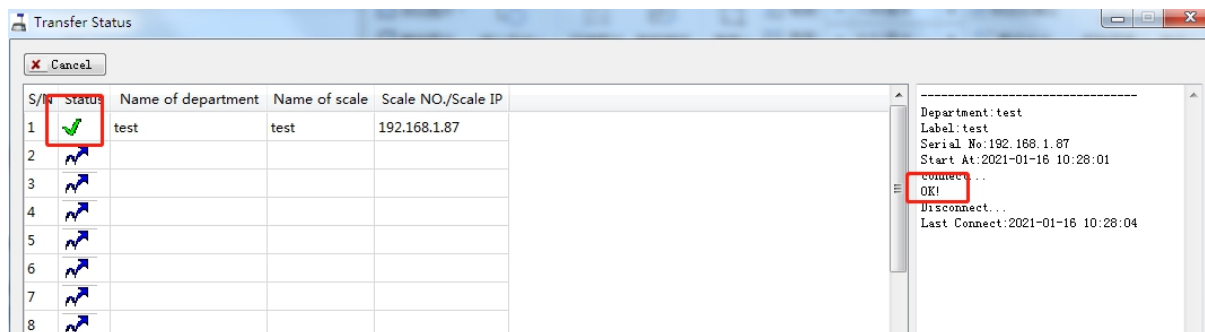
When 『Port』 is set as TCP/IP, enter correct IP address in 『Scale No./IP Address』.

When Port is set as RS-232, enter scale number in 『Scale No./IP Address』, set to be "1234".

4.1.2.2 【Scale connection test】

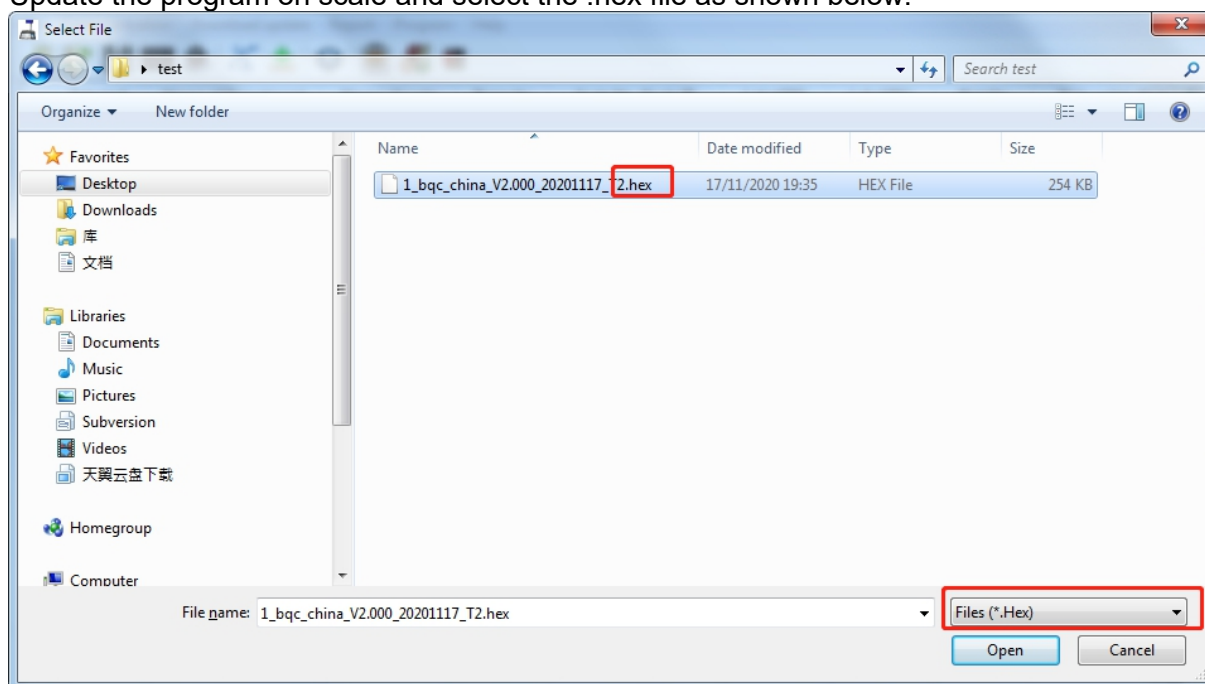
It also can be opened by clicking icon  on the toolbar.

This function is designed to test whether PC can be connected to scale. If it is successful, the following figure will appear.

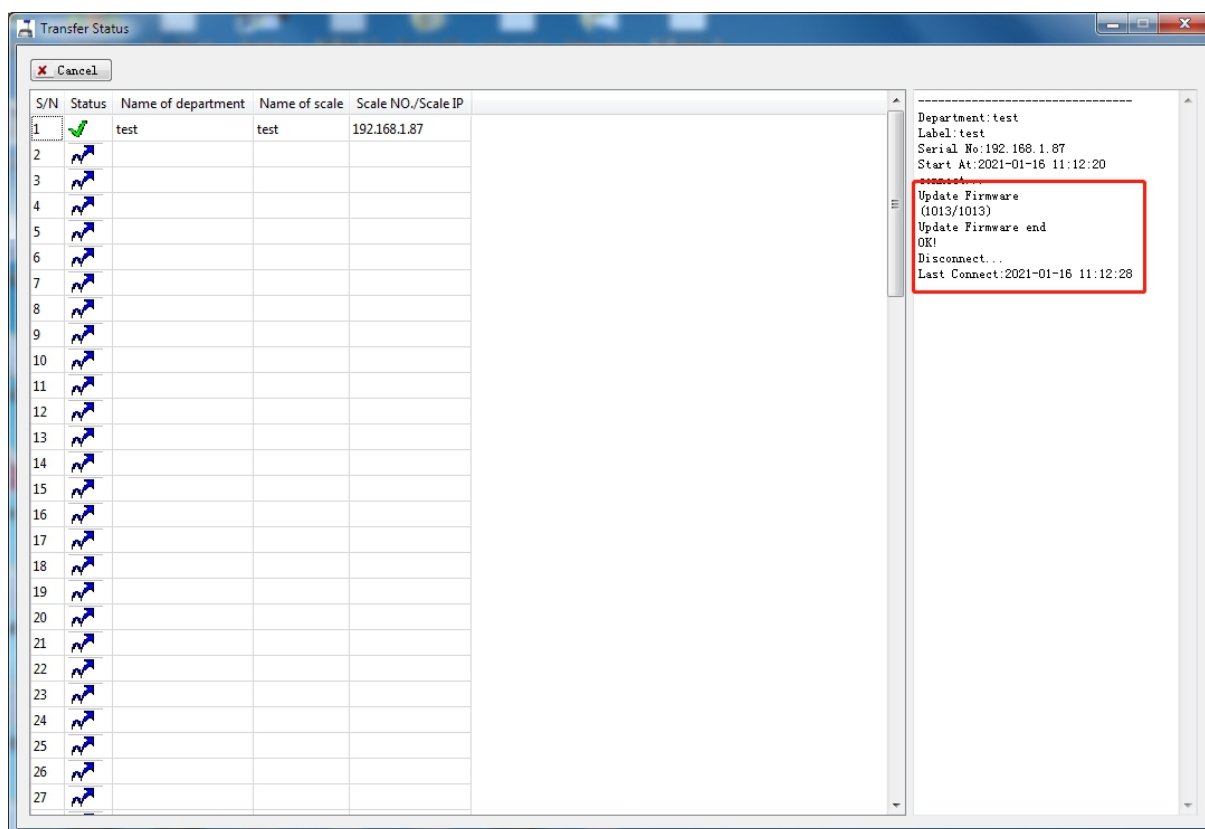


4.1.2.3 【Firmware upgrade】

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



When the red box shown below appears, it indicates that the update process is successful.



4.1.3 Description of Module [Download update]

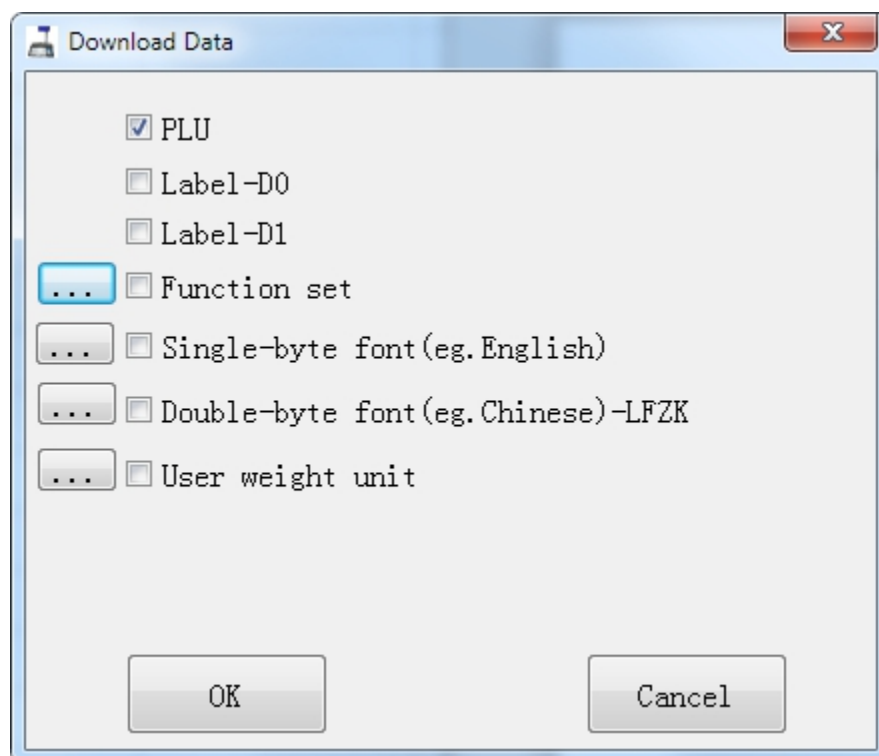
Download update - Download data - Download plu - Download hotkey - Update plu - Update Price - Upload sales records	Download PLU, barcode, function parameters etc. Download PLU Download PLU hot keys. Update PLU Update price Upload sales records
---	--

4.1.3.1 『Download data』



It also can be opened by clicking icon on the toolbar.

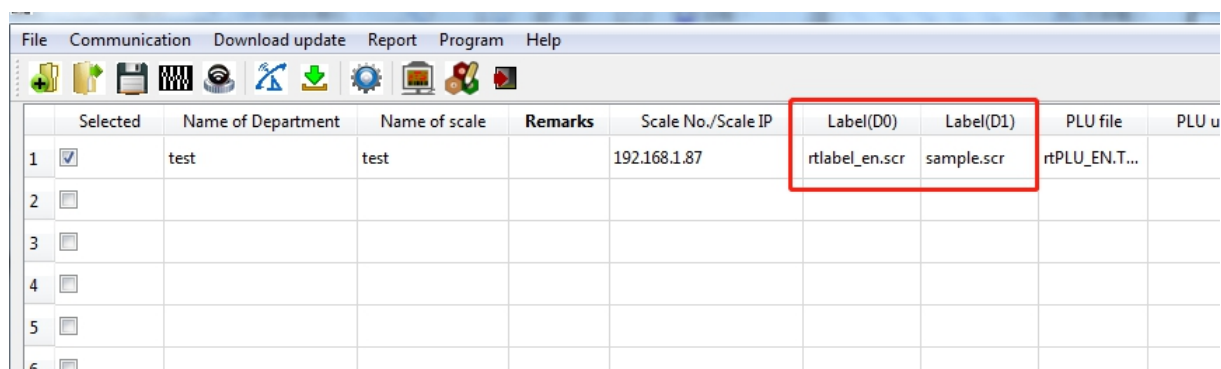
This function is designed to mainly used for downloading PLU, labels, fonts and relevant parameter settings



『PLU』 : Download PLU-related information, such as hotkey, PLU Name etc., as shown below.

RTPLU ./rtPLU_EN.txp													
File PLU Selection Message Communication Help													
HotKey													
	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
6	6	Lettuce	6	6	2	3.60	kg	0	21	0.000	15	Normal	0.000
7	7	Cole	7	7	2	2.10	kg	0	21	0.000	15	Normal	0.000
8	8	Lettuce	8	8	2	2.20	kg	0	21	0.000	15	Normal	0.000

『Label-D0』 , 『Label-D1』 : Download the label of D0, D1.



	Selected	Name of Department	Name of scale	Remarks	Scale No./Scale IP	Label(D0)	Label(D1)	PLU file	PLU u
1	☒	test	test		192.168.1.87	rtlabel_en.scr	sample.scr	rtPLU_EN.T...	
2	☐								
3	☐								
4	☐								
5	☐								
6	☐								

『Function set』 : Download scale-related parameters as shown in [Section 4.1.1.3](#).

『Single-byte font (e.g. English)』 : Download single-byte font, such as English.

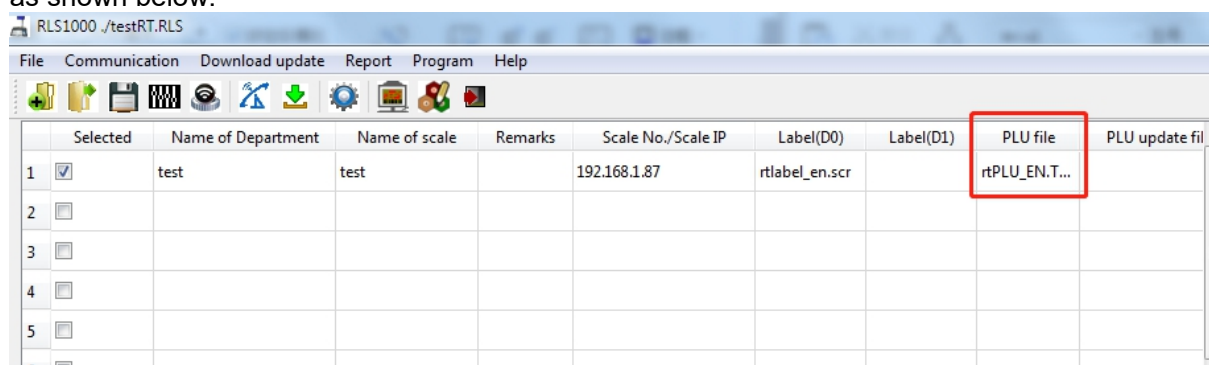
『Double-byte font (e.g. Chinese)-LFZK』 : Download double-byte font, such as Chinese characters, Traditional Chinese characters.

『User weight unit』 : Download the unit name of PLU.

『Enter mode』 : Download Pinyin Input Method, which is used for editing the input method of PLU related information on scale.

4.1.3.2 【Download PLU】

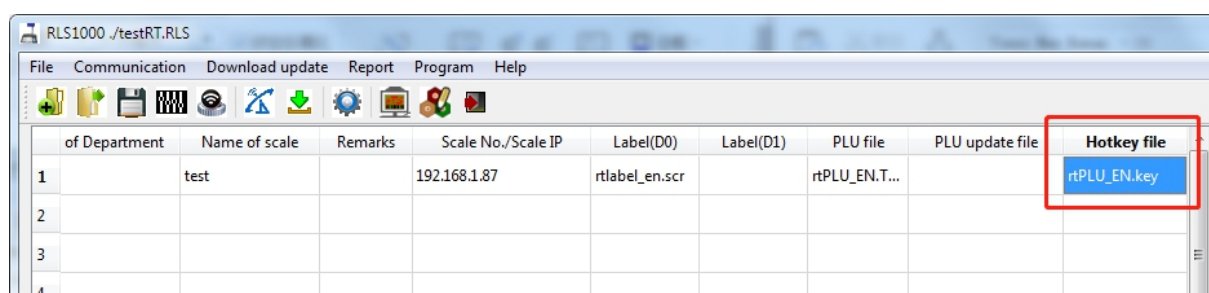
This function is designed for downloading PLU data to scale. PLU file must be set firstly as shown below.



	Selected	Name of Department	Name of scale	Remarks	Scale No./Scale IP	Label(D0)	Label(D1)	PLU file	PLU update fil
1	☒	test	test		192.168.1.87	rtlabel_en.scr		rtPLU_EN.T...	
2	☐								
3	☐								
4	☐								
5	☐								
6	☐								

4.1.3.3 【Download hotkey】

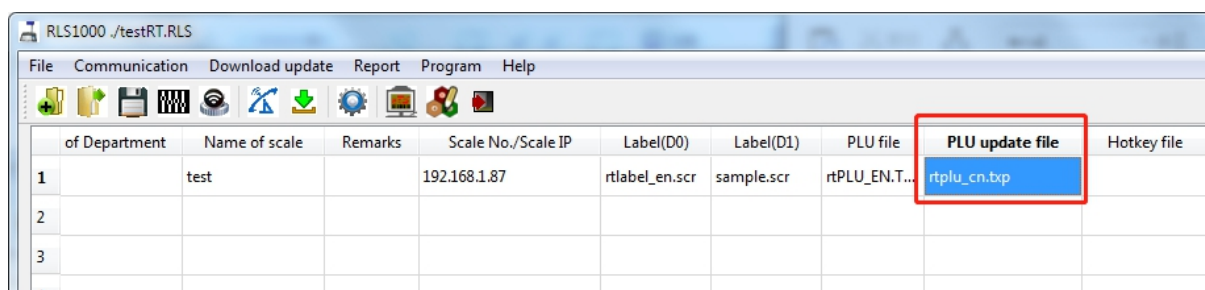
This function is designed for downloading hotkey file. Hotkey file must be set firstly as shown below.



	of Department	Name of scale	Remarks	Scale No./Scale IP	Label(D0)	Label(D1)	PLU file	PLU update file	Hotkey file
1		test		192.168.1.87	rtlabel_en.scr		rtPLU_EN.T...		rtPLU_EN.key
2									
3									
4									

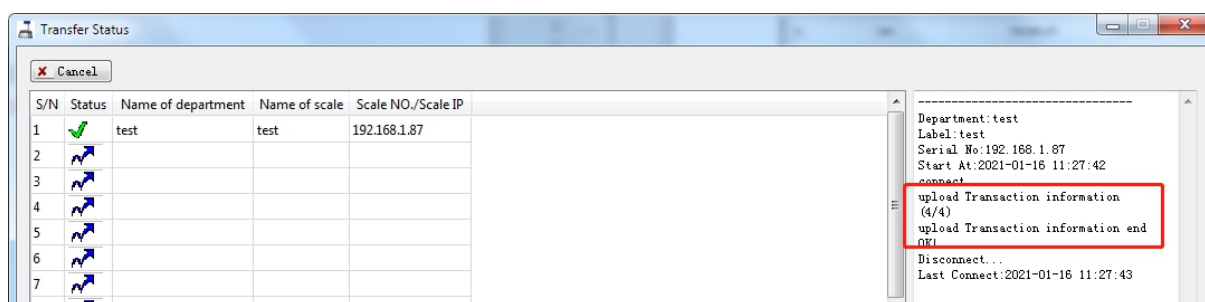
4.1.3.4 【Update PLU】

This function is designed for updating PLU data. Update file must be set firstly as shown below.



4.1.3.5 【Update Price】

This function is designed for uploading the transaction-detail records of scale. If uploading 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 uploaded, the transaction-detail records on the scale will be automatically cleared.



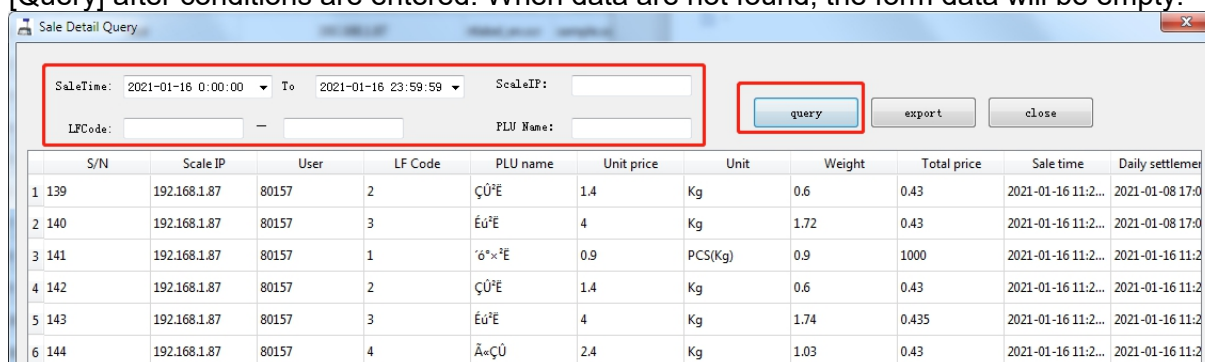
After uploaded successfully, report can be viewed in section [4.1.4.1 【Sale Detail Query】](#).

4.1.4 Description of Module 【Report】

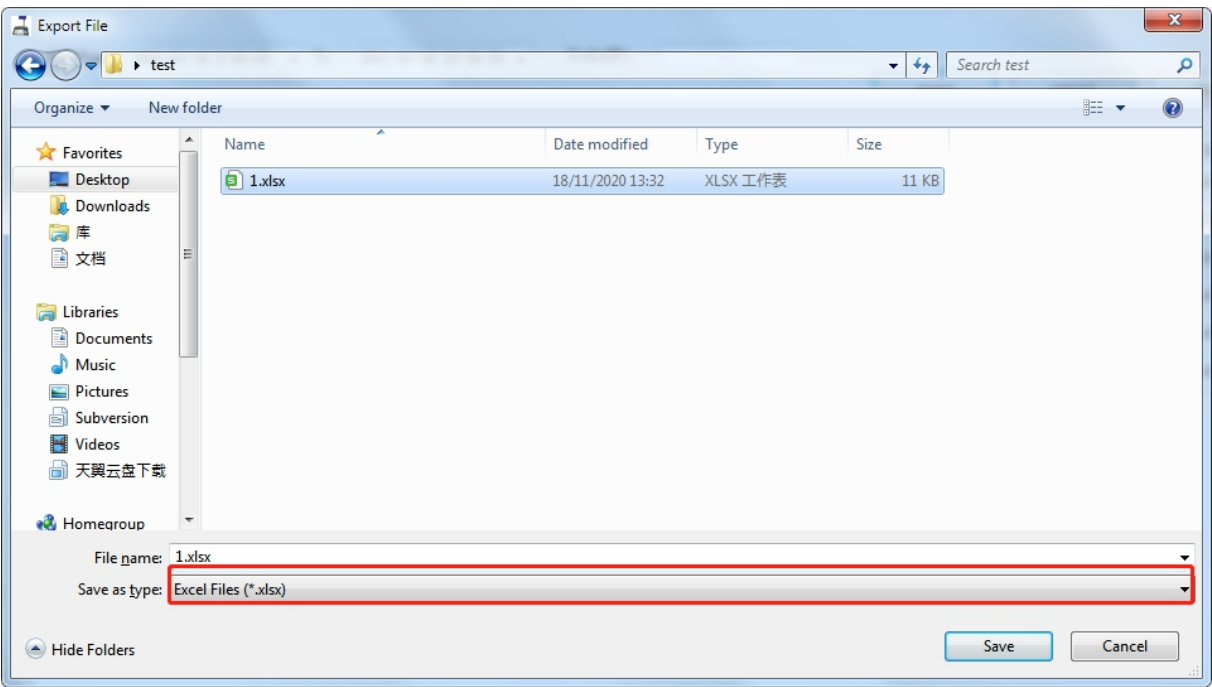
4.1.4.1 【Sale Detail Query】

This function is designed for serving the query of transaction-detail reports that have been uploaded.

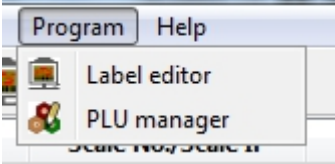
Accurate queries can be made based on conditions such as Sale time, scale ip, Lf code, PLU Name. As shown in the picture below, corresponding data will be searched out by clicking [Query] after conditions are entered. When data are not found, the form data will be empty.



【Export】 : Export the table data of current query. The exported file formats include: .xlsx.

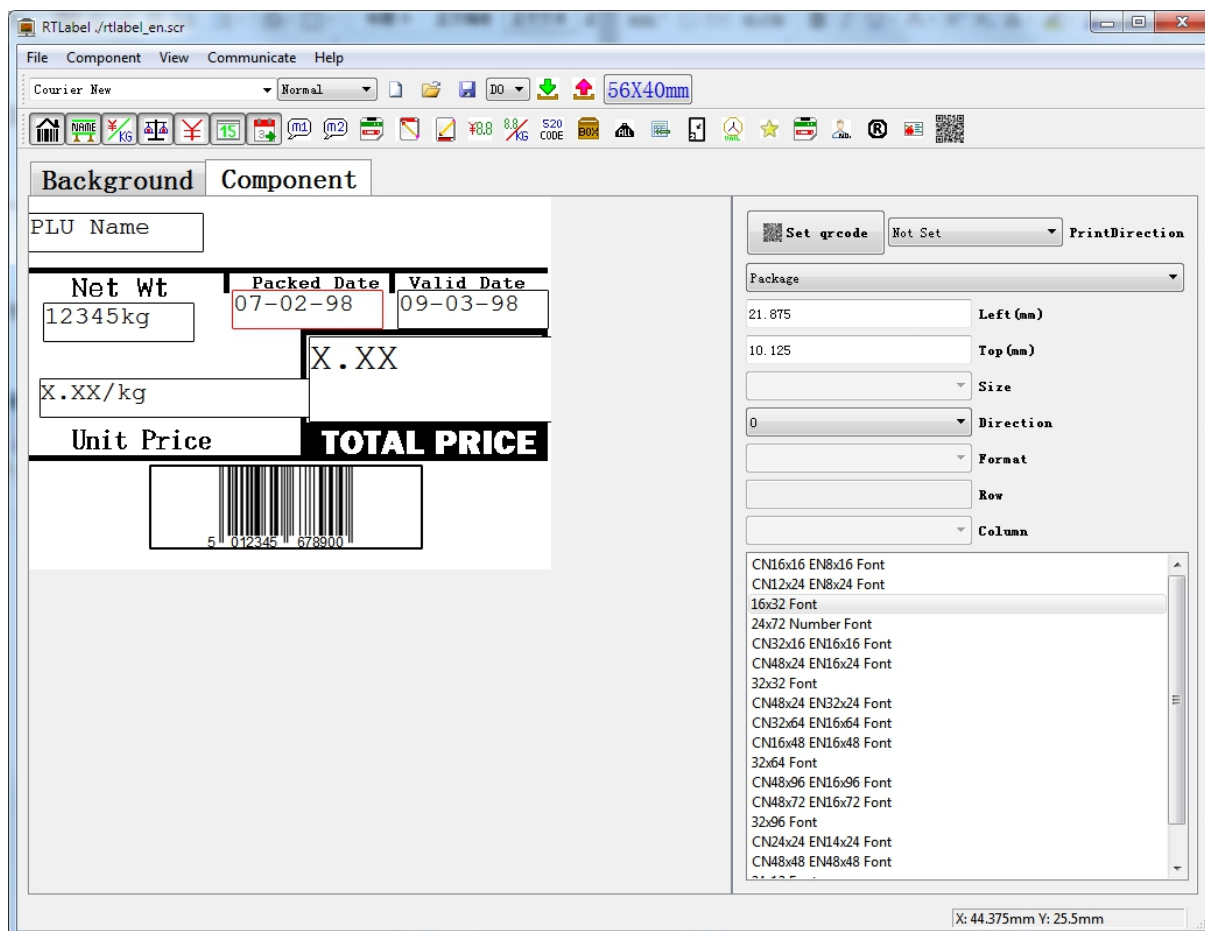


4.1.5 Description of Module **【Program】**

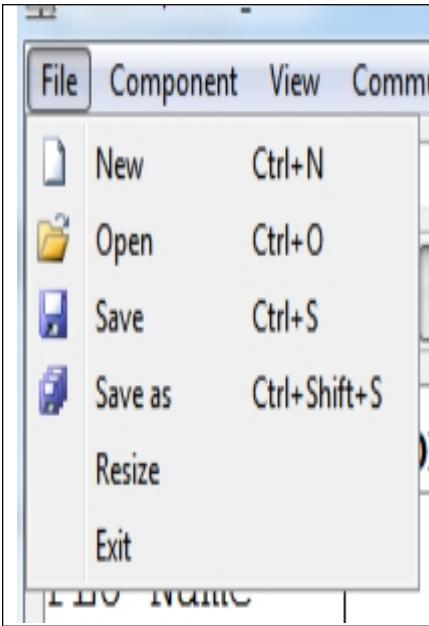
	Start label editor: The same as clicking the icon on the toolbar 
	Start PLU Manager: The same as clicking the icon on the toolbar 

4.2 Module Label Editor

Edit Label Print Template for printing PLU-related information.



4.2.1 Description of Module **[[File]]**

	Create a new label template; the same as the toolbar button  .
	Open an existing label template; the same as the toolbar button  .
	Save currently edited label template; the same as the toolbar button  .
	Save as a label template;
	Modify label size.
	Exit current program.

4.2.1.1 **[[New]]**

Create a new label template, and the following box will pop up; set according to the size of the paper.

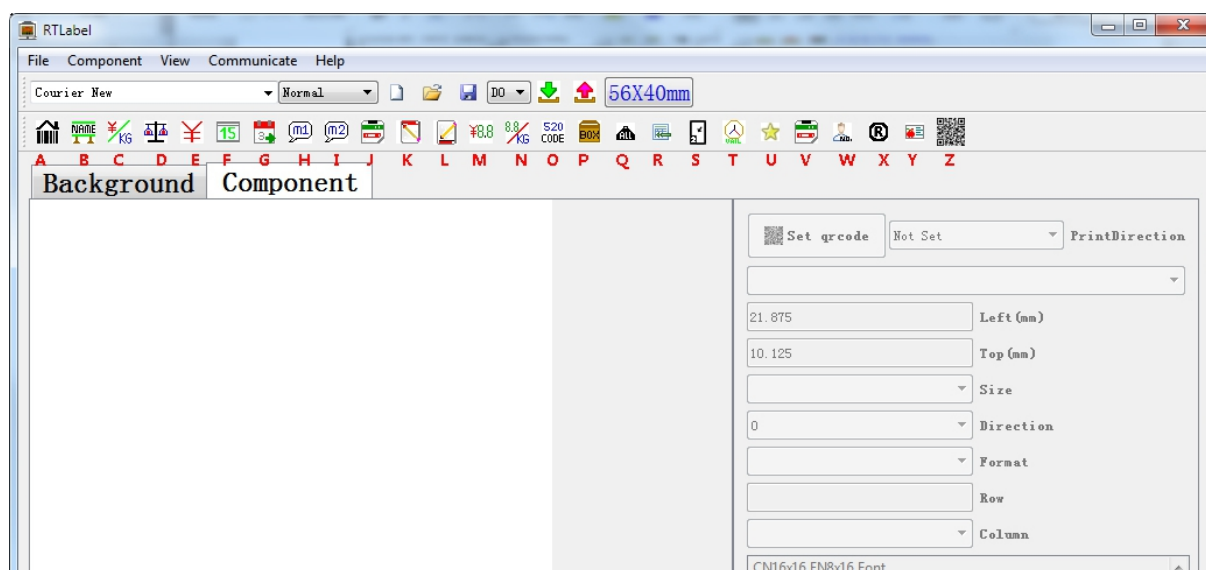
Width must be between 30mm and 56mm

Height must be between 15mm and 140mm

A dialog box titled "Custom label size" with a close button (X) in the top right corner. It contains two input fields: "Label Width:" with a value of "30" and "mm", and "Label Height:" with a value of "40" and "mm". At the bottom, there are two buttons: "OK" and "Cancel".

4.2.1.2 **[[Modify label size]]**

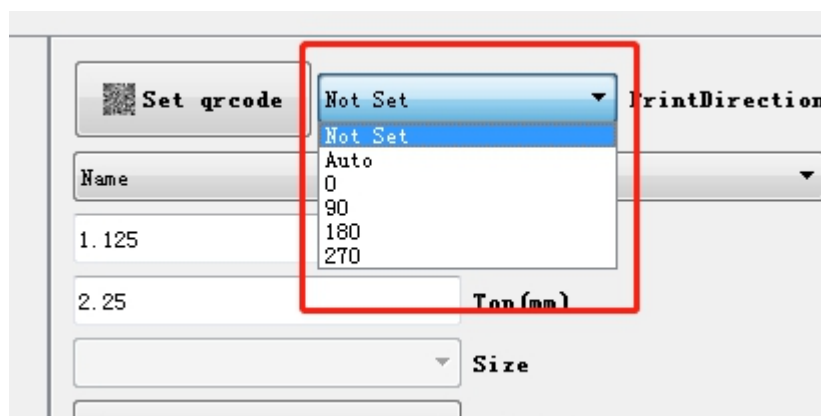
Modify the size of label template with the method the same as that set forth in section [4.2.1.1 \[\[New\]\]](#).



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 No. T: Valid time
 U: Package Time V: Shelf life W: Clerk No X: Ice content Y: Production Date Z: QR Code

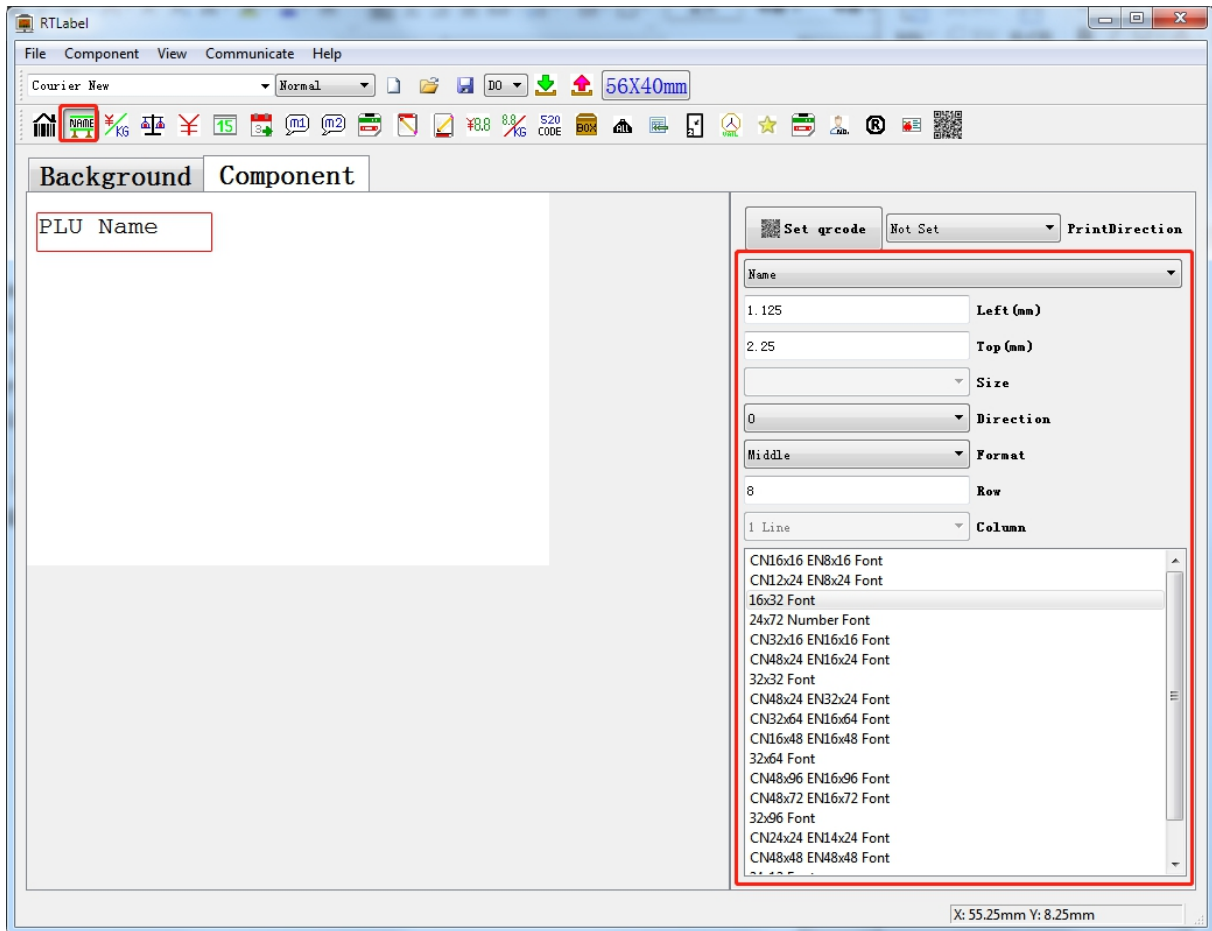
『Print direction』

Set the print direction of the label. When value is greater than 0, the label will be rotated.

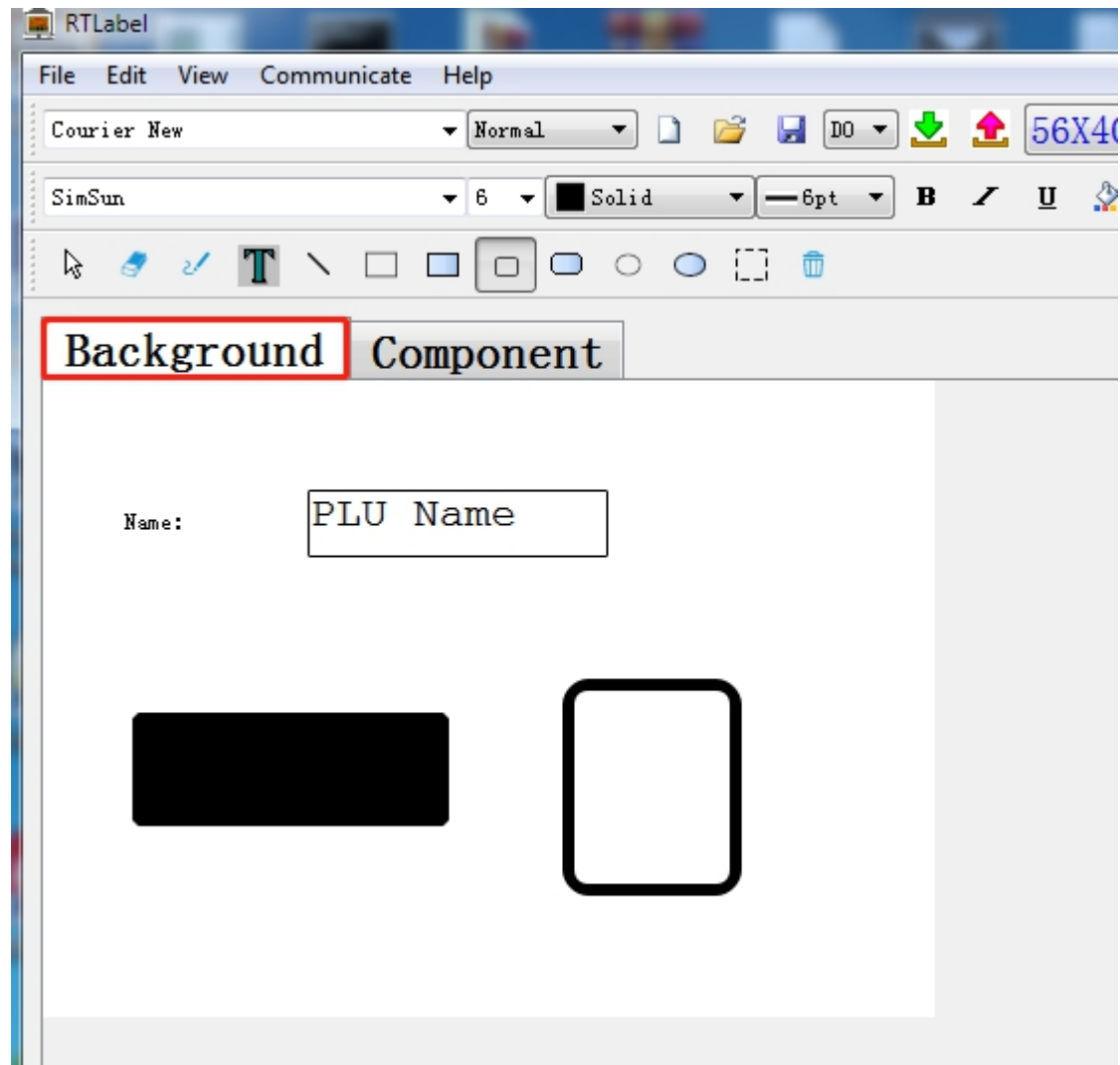


4.2.2.2 Rules on label operation

How to edit label?

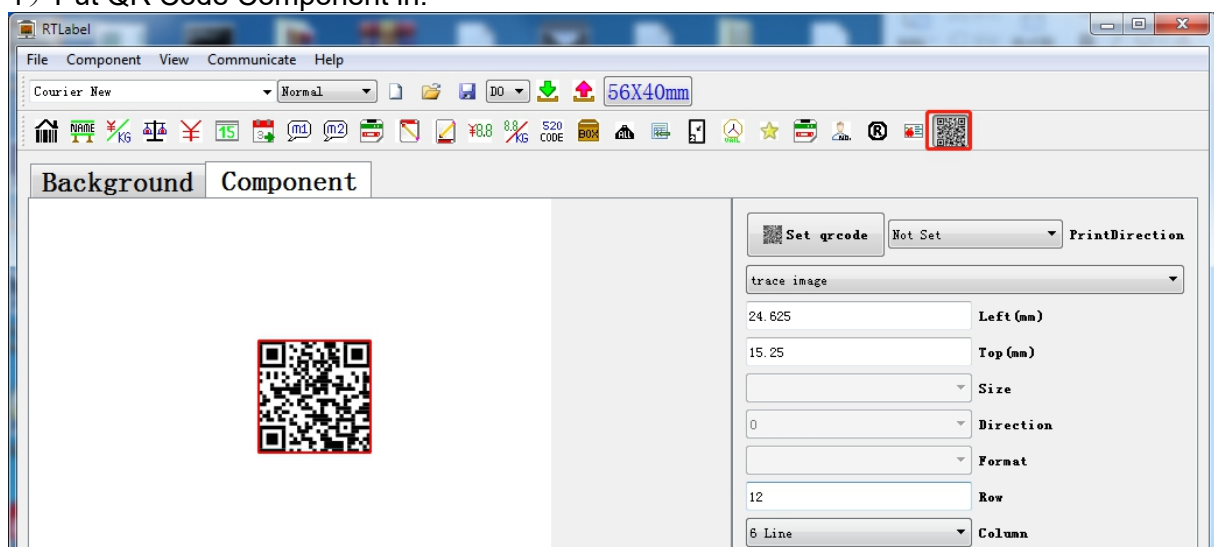


- 1) Click on a component of the toolbar such as .
- 2) Click on the blank space of the white canvas below.
- 3) Set relevant properties on the right (such as Left, Top, Direction, and corresponding font)
- 4) Switch to Background, and then you can customize the drawing, write text and so on.
- 5) Save (File>>>Save>)

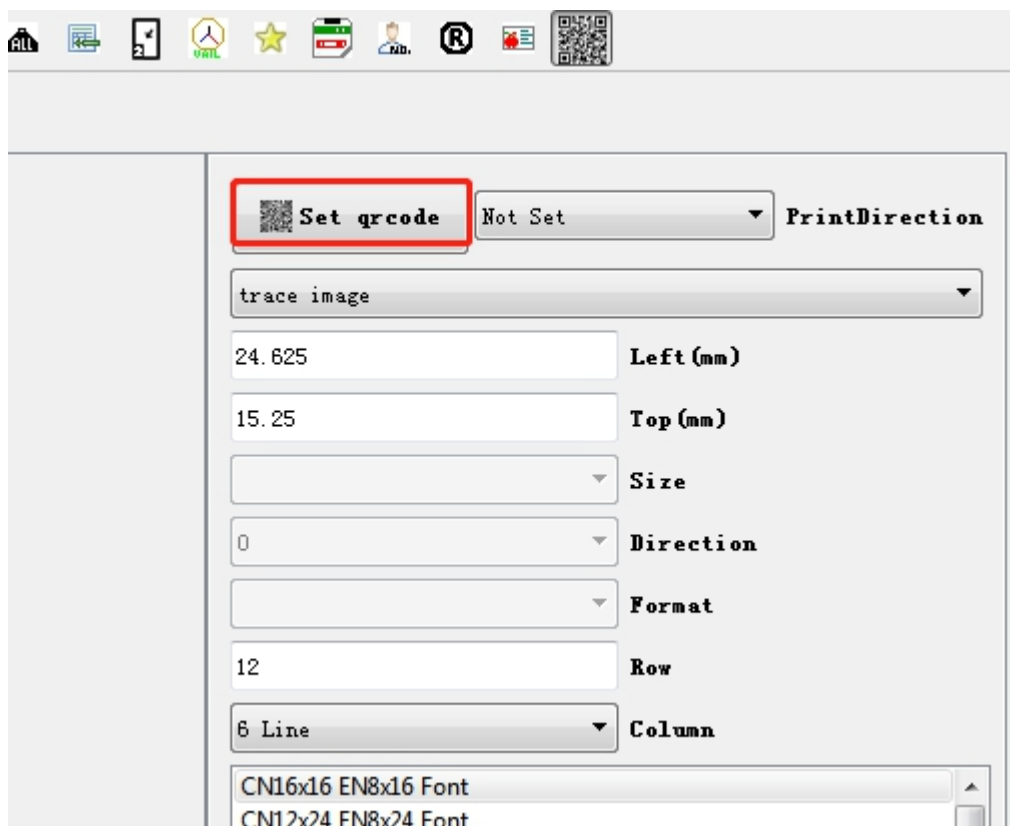


Operation of QR code component

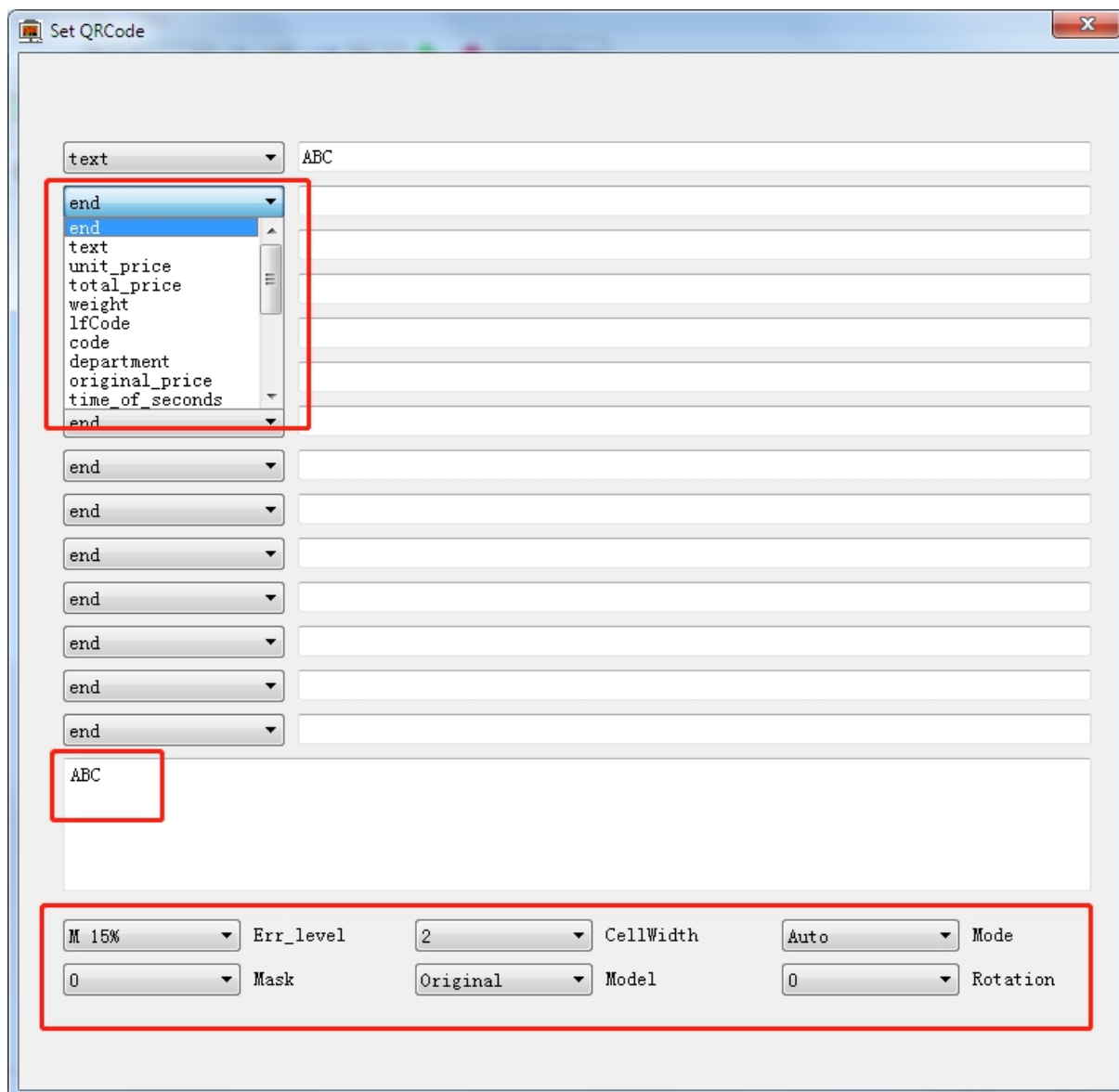
1) Put QR Code Component in.



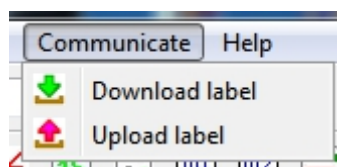
- 2) Open QR code setting interface.
Click the [set qrcode] in the figure below.



- 3) Set the properties related to QR code
Select QR code-related field content (Text, Unit price, Total price...) to be printed and set the properties of the QR code. When completed, click the exit button .



4.2.2.3 Label upload and download

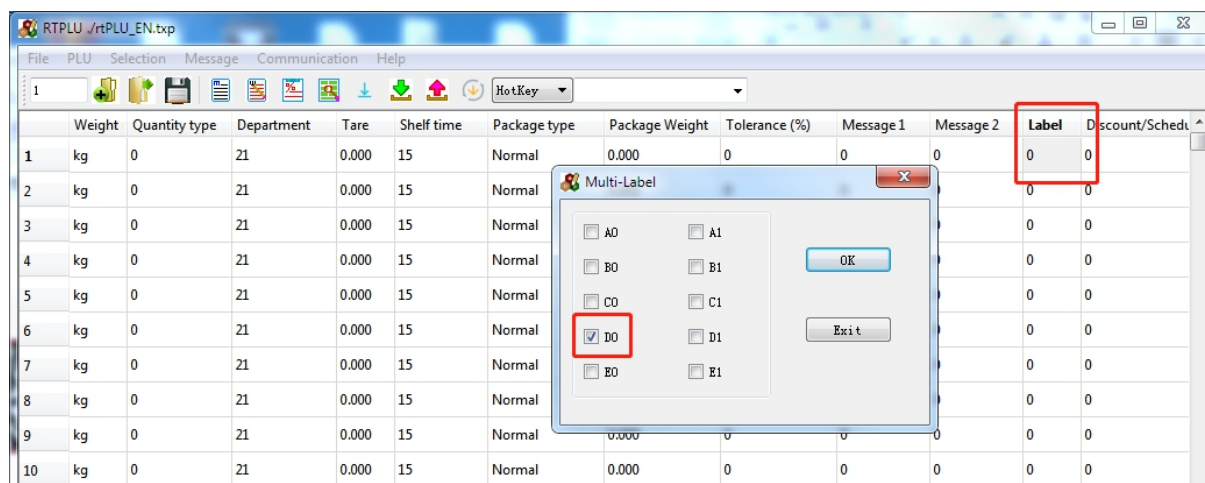
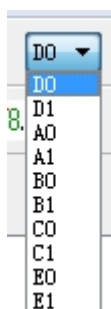


〔Download label〕

Download edited labels.

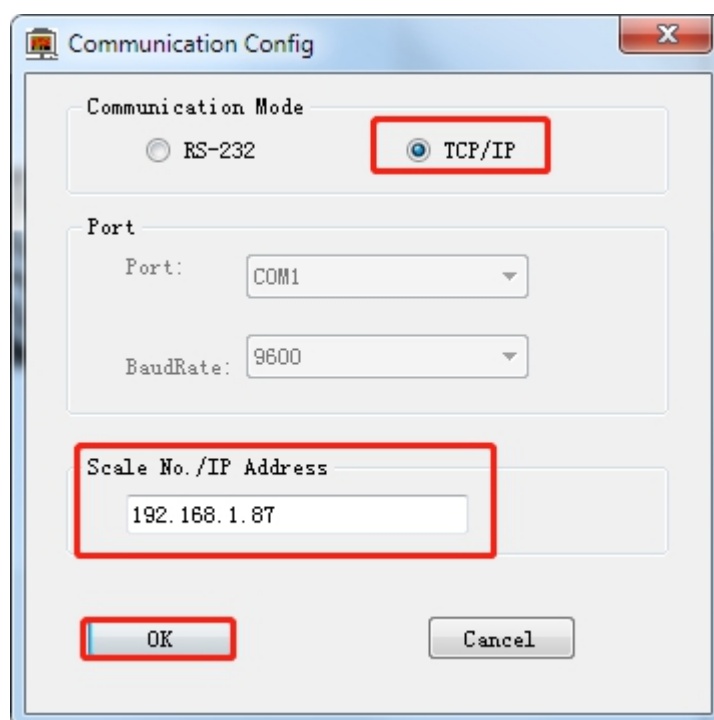
Operation steps are as follows:

- 1) Select the type of labels to be downloaded, as shown below, from D0~E1.
Only when the type is the same as that set by 〔PLU manager〕, can the downloaded label take effect.

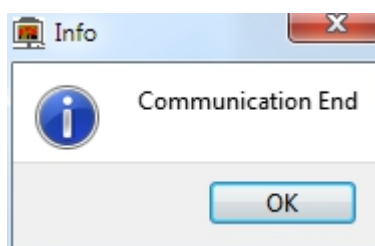
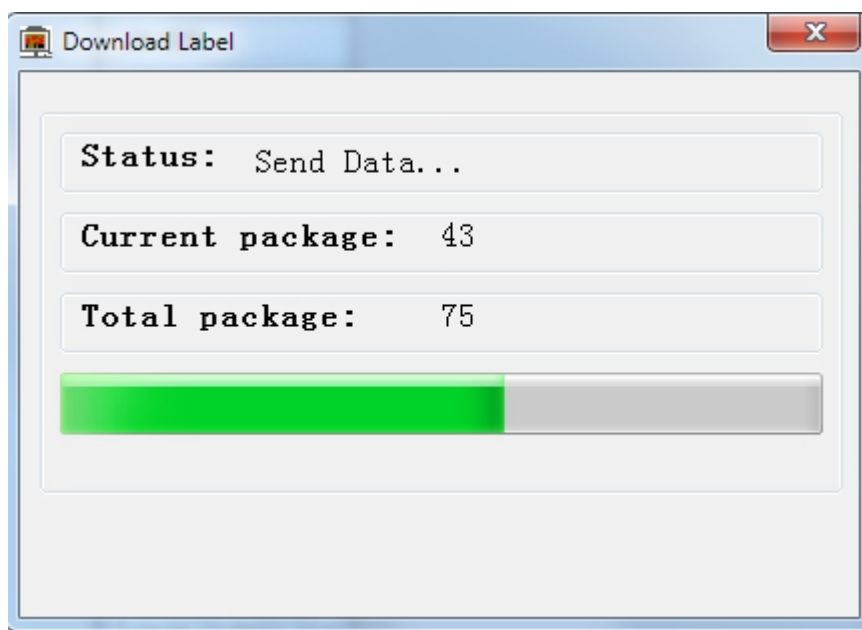


2) Open [Communication] >> [Download label] , or click toolbar button .

3) Select the way to connect scale. For example, select TCP/IP as follows, download labels through network. After selection, click [ok].



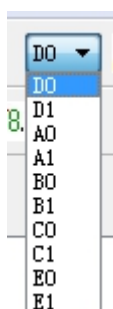
- 4) After downloading begins, download progress will be displayed. After successful completion of downloading, "Communication over" will be displayed.



[[Upload label]]

Upload a label template that has been downloaded to scale.

- 1) Select the type of labels to be uploaded, as shown below, from D0~E1
- 2)



- 3) Open [Communication] >> [Upload label] , or click toolbar button .
- 4) For other steps, refer to the 3)-4) steps of the [Download label]

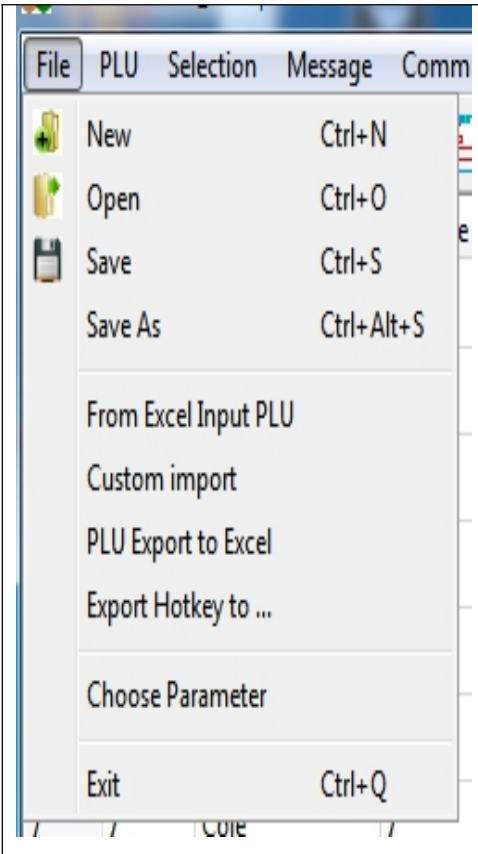
4.3 Module PLU manager

Open PLU manager

Open RLS1000 menu [program] >> [PLU Manager] , or click on the toolbar button .

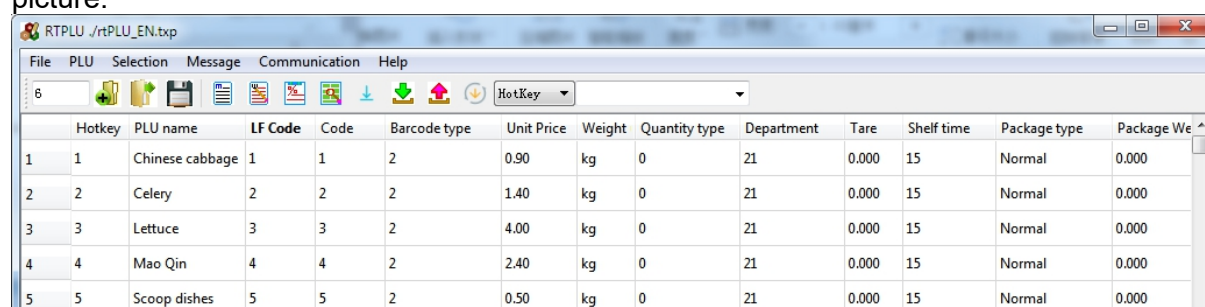
This module is mainly used for editing PLU-related information, and the information can be downloaded to scale.

4.3.1 Description of Module [File]

	Create a new PLU file, the same as the toolbar button  .
	Open an existing PLU file, the same as the toolbar button  .
	Save currently edited PLU file, the same as the toolbar button  .
	Save to another PLU file.
	Import fixed-format files (.xls, .xlsx) from Excel.
	Import PLU file in customized format.
	Export PLU to Excel file
	Export hotkeys to generate Plu hotkey (*.key) file.
	Select plu manager related parameters
	Exit program.

4.3.1.1 [New]

After creating a new PLU, you can enter relevant information, as shown in the following picture:



	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 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, do not repeat (unique ID value of goods)

Code→input number within 10-figure which means PLU item no.

Barcode Type→input barcode type(0-99,101~110)

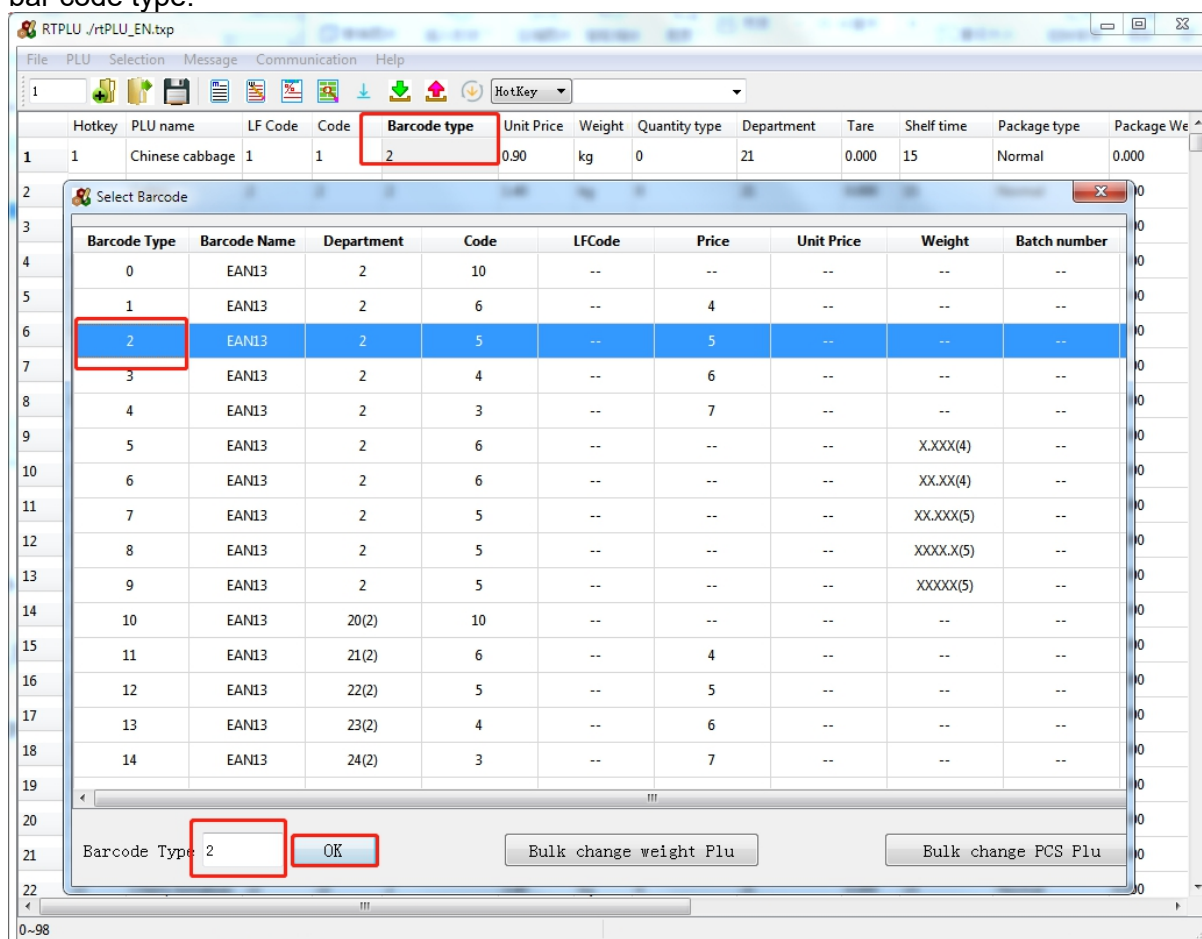
See Barcode type in [5.1 Appendix I . Barcode coding table](#)

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.

In the picture below:

【Bulk change weight Plu】 : Batch change the bar code type of all goods by-weight to selected bar code type.

【Bulk change PCS Plu】 : Batch change the bar code type of all goods by-piece to selected bar code type.



Unit Price→input unit price

Weight Unit→press space, then select required weight unit

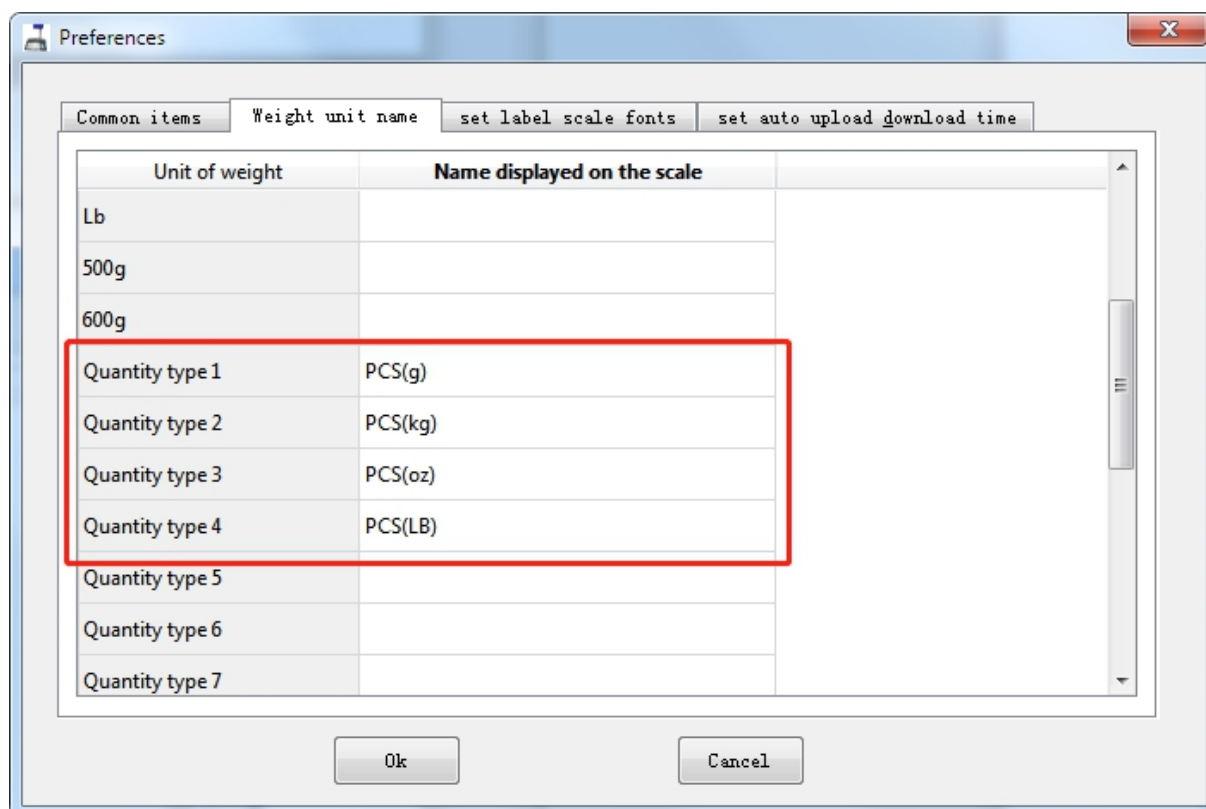
Quantity type→Set the unit name to be displayed on scale (Quantity type 1~Quantity type 6 are valid; Quantity type 8~Quantity type 15 are invalid)

Operation is as follows

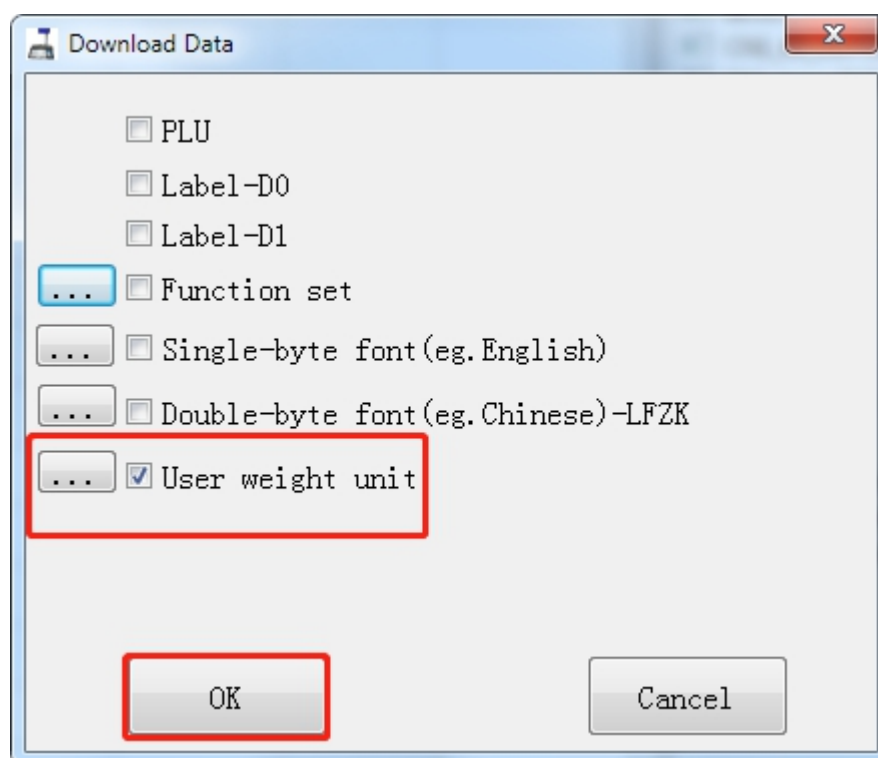
1) Open [File] >> [Preferences] of the RLS1000 software or click the icon of the

toolbar ; to switch to [Weight unit name] .

2) Set the value of Quantity type1~Quantity type4. Download the parameters after completion of the setting as shown below.



3) Click the [RLS1000] toolbar , and Select [User weight unit] as shown below for downloading.



4) Set the Weight unit of PLU manager

RTPLU ./rtPLU_EN.txp

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
8	Lettuce	8	8	2	2.30	kg	0	21	0.000	15	Normal	0.000

Or set as the followings

RTPLU ./rtPLU_EN.txp

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
9	Parsley	9	9	2	1.70	kg	0	21	0.000	15	Normal	0.000

Unit Corresponding to Quantity Type			
Quantity Type	Corresponding Unit	『Quantity type』 Value	
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	
Quantity type 1	PCS(g)	10	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 2	PCS(kg)	11	
Quantity type 3	PCS(oz)	12	
Quantity type 4	PCS(Lb)	13	
Quantity type 5		14	
Quantity type 6		15	
Quantity type 7~15			(retained)

Department → Input a two-digit to represent department

Tare → Input tare weight, within 15kg after logic conversion.

Shelf time → Input shelf time (0~365), Two ways for Shelf time unit, (0~365) means unit is day; (-365~0) means unit is hour.

Package Type → press space bar to select the packing type. Generally, Normal is selected.

Normal
Fixed Weight
Fixed Price
Both Fixed
QR Code
PT

【Both fixed】 (Fixed weight & Fixed price):

The operation steps are as follows:

- 1). In PLU, set the item package type as “Fixed weight & Fixed price” and enter package weight.
- 2). Enable lock function (price lock) on scale.
- 3). Put the object, input the set item and press Print. The printed weight is the package

weight, and the printed total price is the unit price, and unit price is not printed.

【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 scale, and automatic printing is enabled.
- 3). Put the object and input the set item. When $m1 - (m1 * e) / 200 / 2 < \text{object weight} < m1 + (m1 * e) / 200 / 2 + (m1 * e) / 200$, 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 and input the set item. When $m1 - (m1 * e) / 200 / 2 < \text{object weight} < m1 + (m1 * e) / 200 / 2 + (m1 * e) / 200$, printing is allowed.
- 4). The printed weight is the package weight; the printed total price is the unit price, and unit price is not printed.

As set in the picture, the calculation is as follows:

$$1000 * 5 / 200 = 25;$$

$$25 / 2 = 12; \text{ (round-off number)}$$

$$1000 - 12 = 988;$$

$$1000 + 12 + 25 = 1037$$

Automatic printing is allowed when $9.988\text{kg} < \text{weight value} < 10.037\text{kg}$.

【Qrcode】 & 【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 & Fixed price.

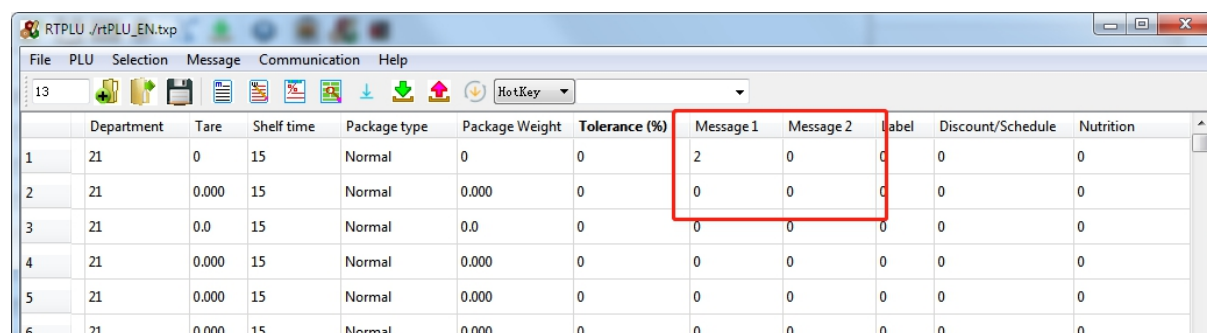
【Message 1】 → Input the selected message No. (0~10000) use this message

【Message2】 → Input the selected message No. (0~197) use this message

Note: To enable Message2, 【Set function】 >> 【Use message 2】 of the RLS1000 module must be checked. ☒ Use message 2

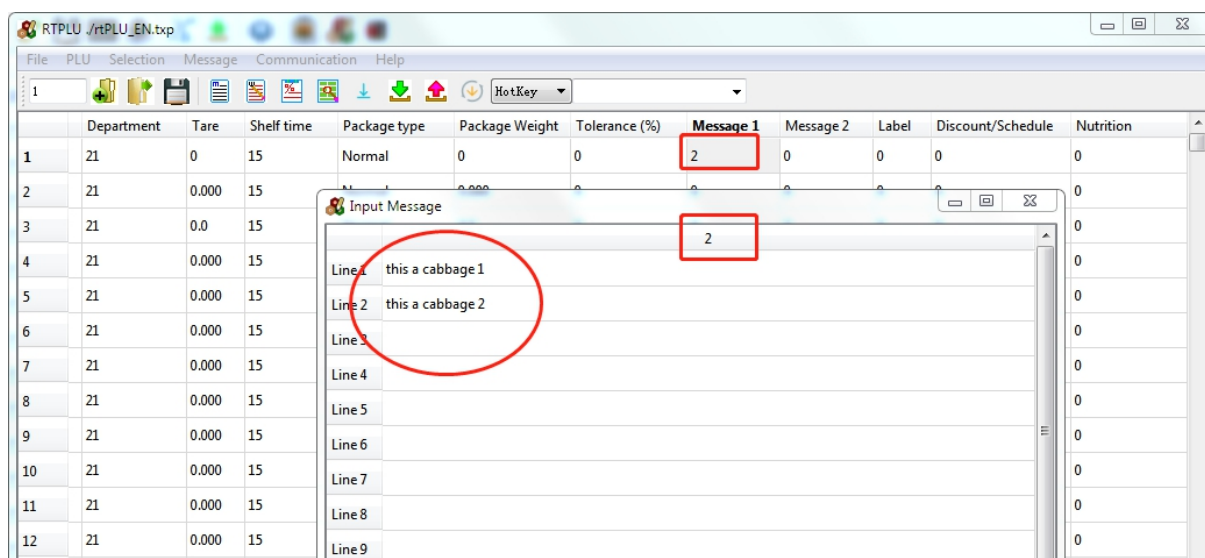
The operation of 【Message 1】 and 【Message 2】 is the same, as shown below.

- 1) Input "2" in 【Message 1】 in the table.

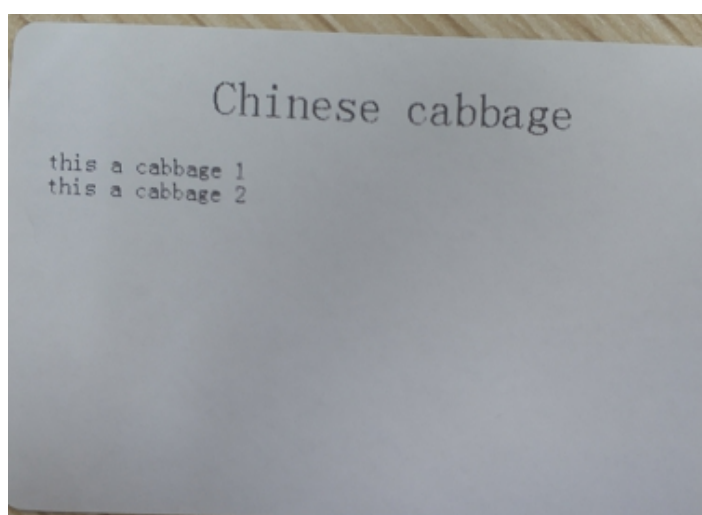
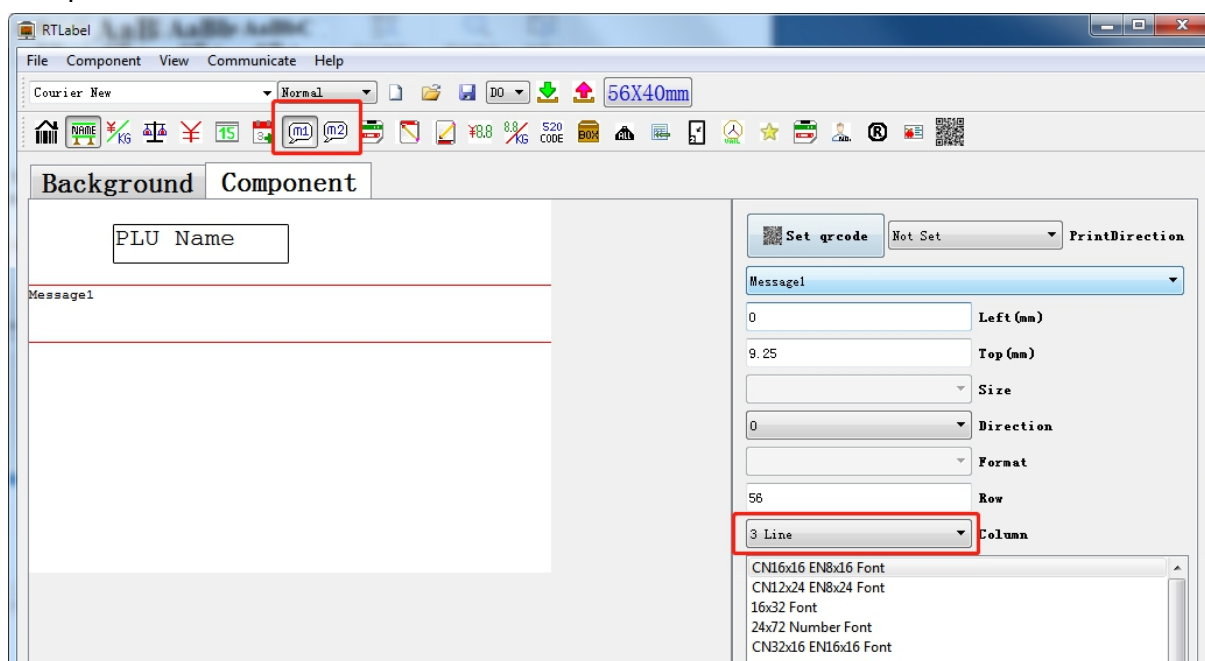


	Department	Tare	Shelf time	Package type	Package Weight	Tolerance (%)	Message 1	Message 2	Label	Discount/Schedule	Nutrition
1	21	0	15	Normal	0	0	2	0	0	0	0
2	21	0.000	15	Normal	0.000	0	0	0	0	0	0
3	21	0.0	15	Normal	0.0	0	0	0	0	0	0
4	21	0.000	15	Normal	0.000	0	0	0	0	0	0
5	21	0.000	15	Normal	0.000	0	0	0	0	0	0
6	21	0.000	15	Normal	0.000	0	0	0	0	0	0

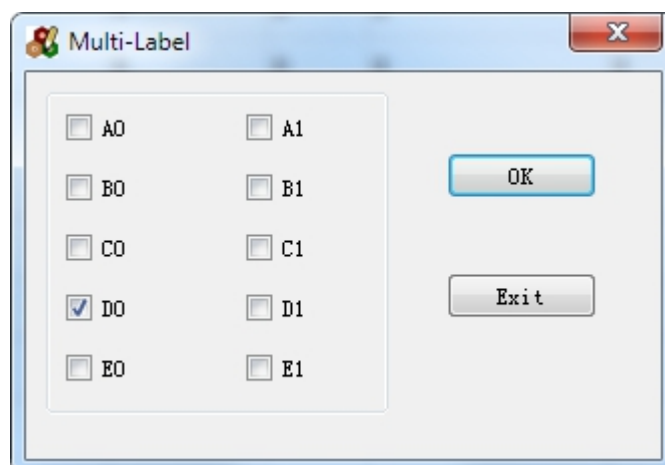
- 2) Press the spacebar or double click on 【Message 1】 to pop up the following box; input information content, save and download to the scale.



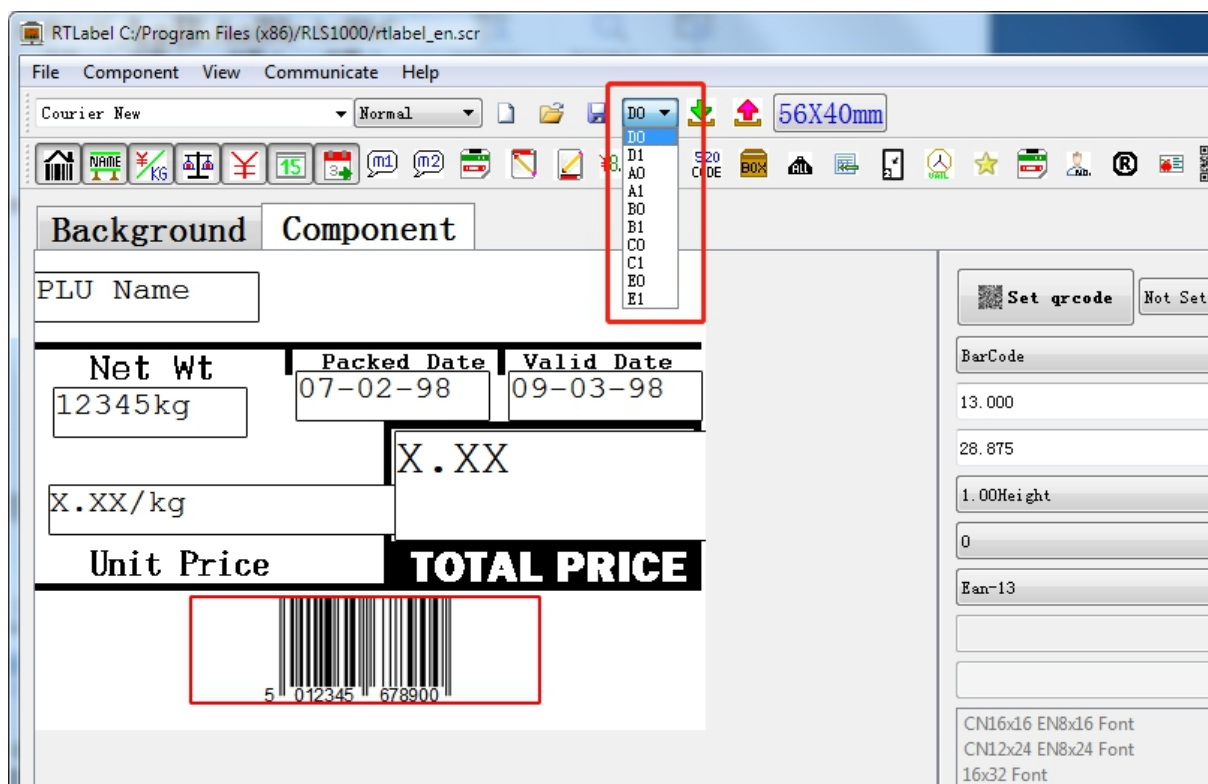
3) Put the **【Message1】** component in **【Label editor】**, set the number of lines, fonts, and so on to be displayed to download, and finally print the information on the commodity. The print effect is as follows:



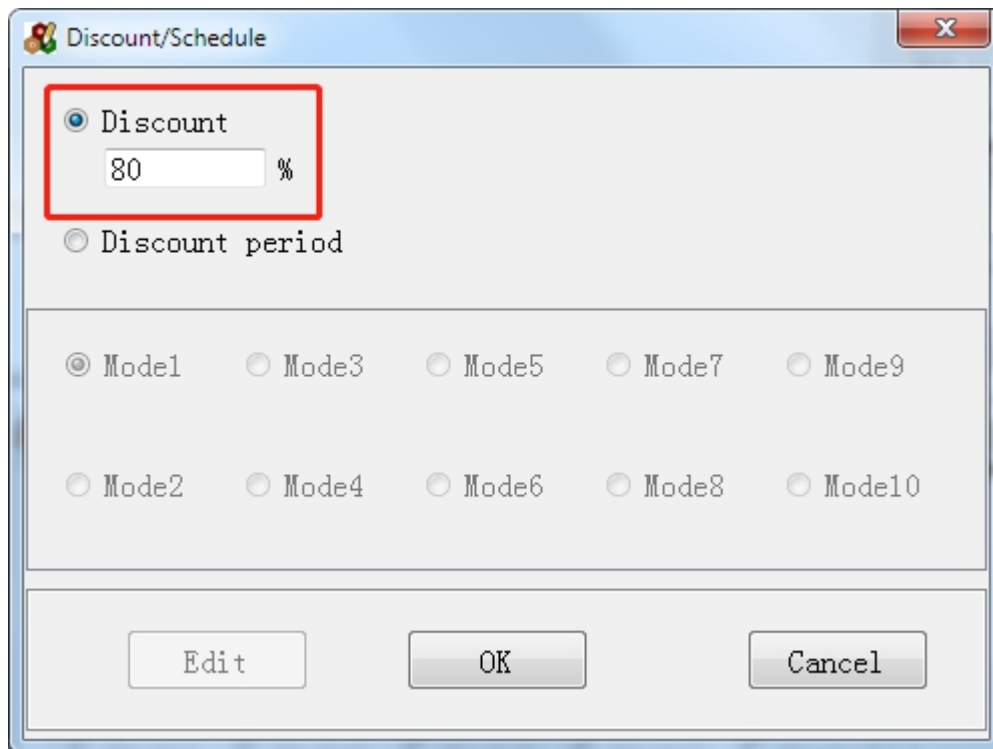
「Label」 →Select label type



After checking, select corresponding label type in 「Label editor」 and conduct downloading to enable the function.

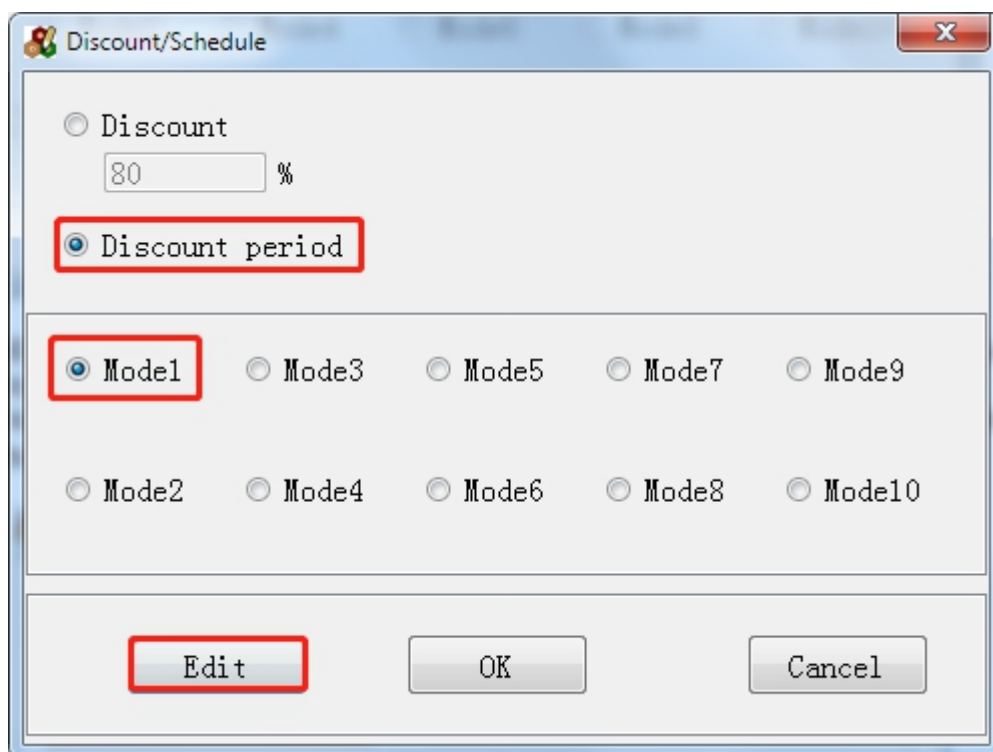


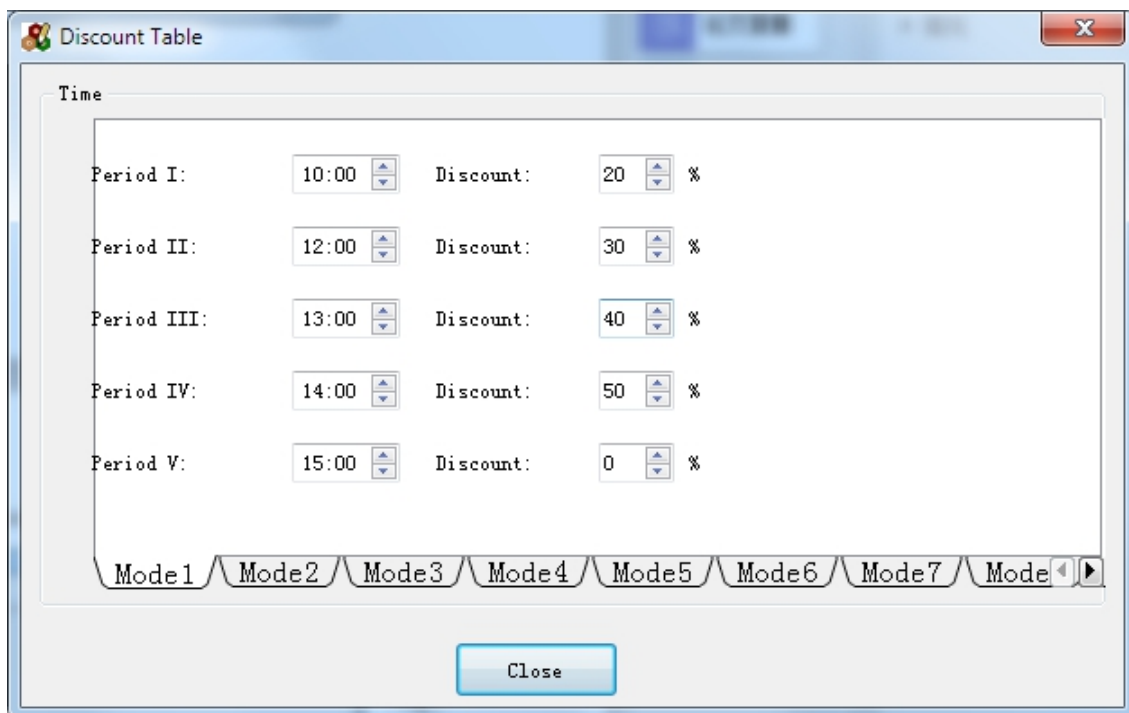
「Discount /Schedule」 →Input the discount rate. Range of discount (0~138)
 Double click the 「Discount /Schedule」 column or press the spacebar to pop up the following image.



Inputting 80 in the above image 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.

A time period-based discount can also be performed. Select 『Discount period』 -> 『Model』 -> Edit as shown below.





The 'Discount Table' dialog box contains a 'Time' section with five rows for different periods. Each row has a time input field and a discount percentage input field. Below this is a row of tabs labeled 'Mode1' through 'Mode8'. A 'Close' button is at the bottom.

Period	Time	Discount (%)
Period I:	10:00	20
Period II:	12:00	30
Period III:	13:00	40
Period IV:	14:00	50
Period V:	15:00	0

Mode1 Mode2 Mode3 Mode4 Mode5 Mode6 Mode7 Mode8

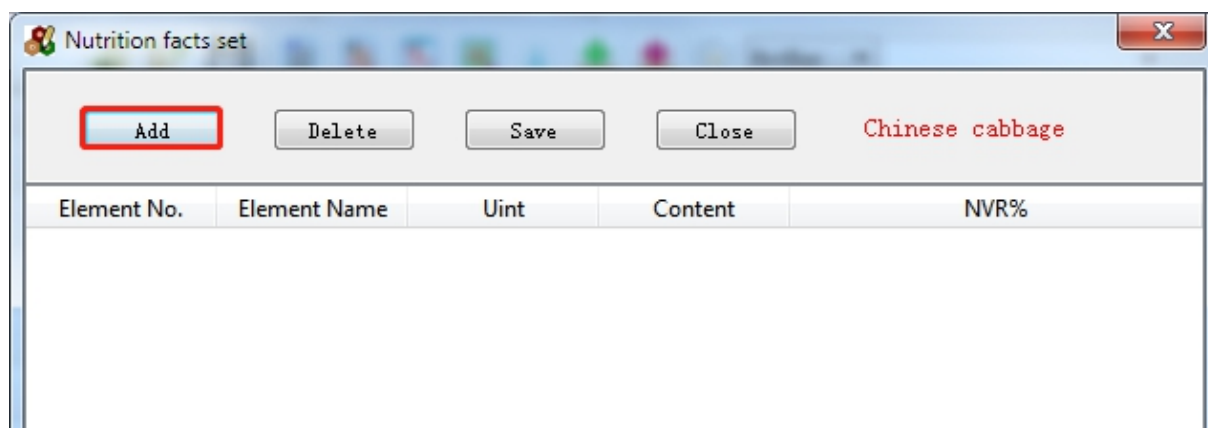
Close

This function is designed for providing different discount based on different time period.
 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 discount rate is 20% and 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 nutrition label can be printed. The operation steps are as follows:

1) Double click 『Nutrition』 column or press spacebar to pop up the following image.

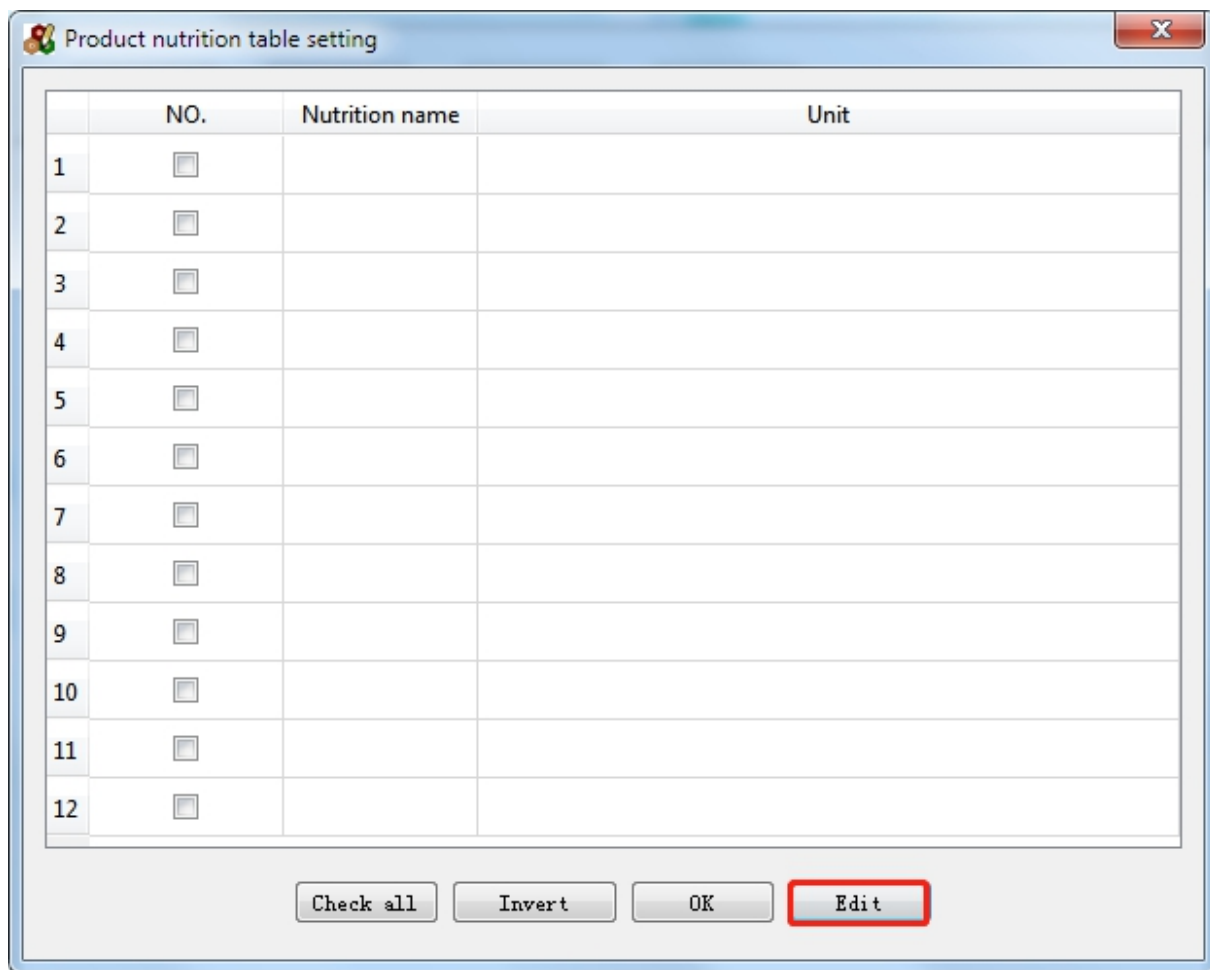


The 'Nutrition facts set' dialog box has a header bar with buttons 'Add', 'Delete', 'Save', and 'Close'. The 'Add' button is highlighted with a red box. To the right of the buttons is the text 'Chinese cabbage'. Below the header is a table with five columns: 'Element No.', 'Element Name', 'Unit', 'Content', and 'NVR%'. The table is currently empty.

Add Delete Save Close Chinese cabbage

Element No.	Element Name	Unit	Content	NVR%
-------------	--------------	------	---------	------

2) Click **【Add】**, pop up the nutrition selection elements. 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 through the 『PLU』 >> 『Nutrition table set』 of main menu.

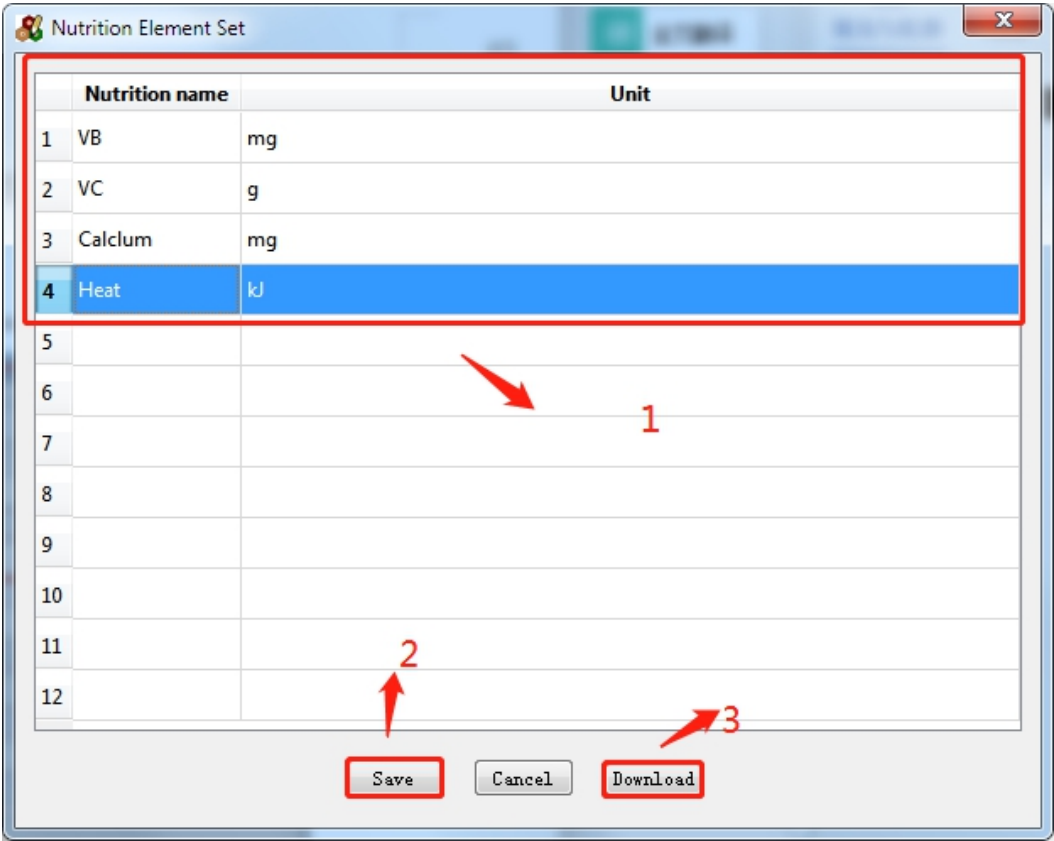


The image shows a software window titled "Product nutrition table setting". It contains a table with 12 rows and 3 columns: "NO.", "Nutrition name", and "Unit". Each row has a small square checkbox in the "NO." column. Below the table are four buttons: "Check all", "Invert", "OK", and "Edit". The "Edit" button is highlighted with a red border.

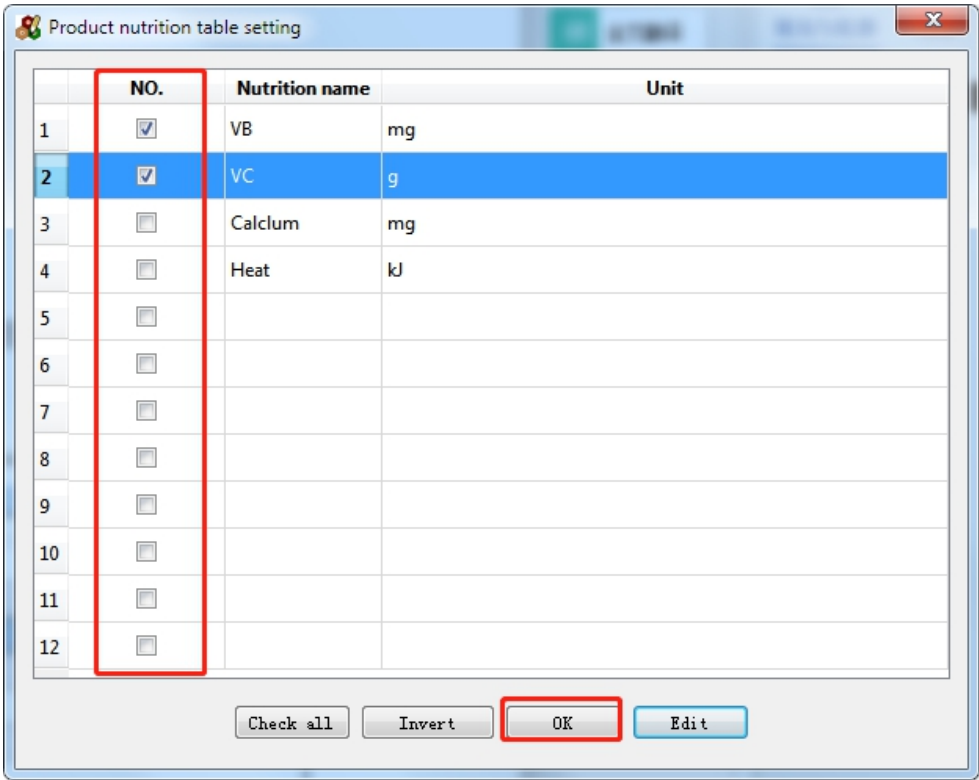
	NO.	Nutrition name	Unit
1	☐		
2	☐		
3	☐		
4	☐		
5	☐		
6	☐		
7	☐		
8	☐		
9	☐		
10	☐		
11	☐		
12	☐		

Check all Invert OK **Edit**

3) Add the nutrient element table, as shown below. If the table is completed, this step can be ignored.



Click 【Save】 in the above image and return, Reopen this interface, click download , and select the nutrients to be used as shown below.



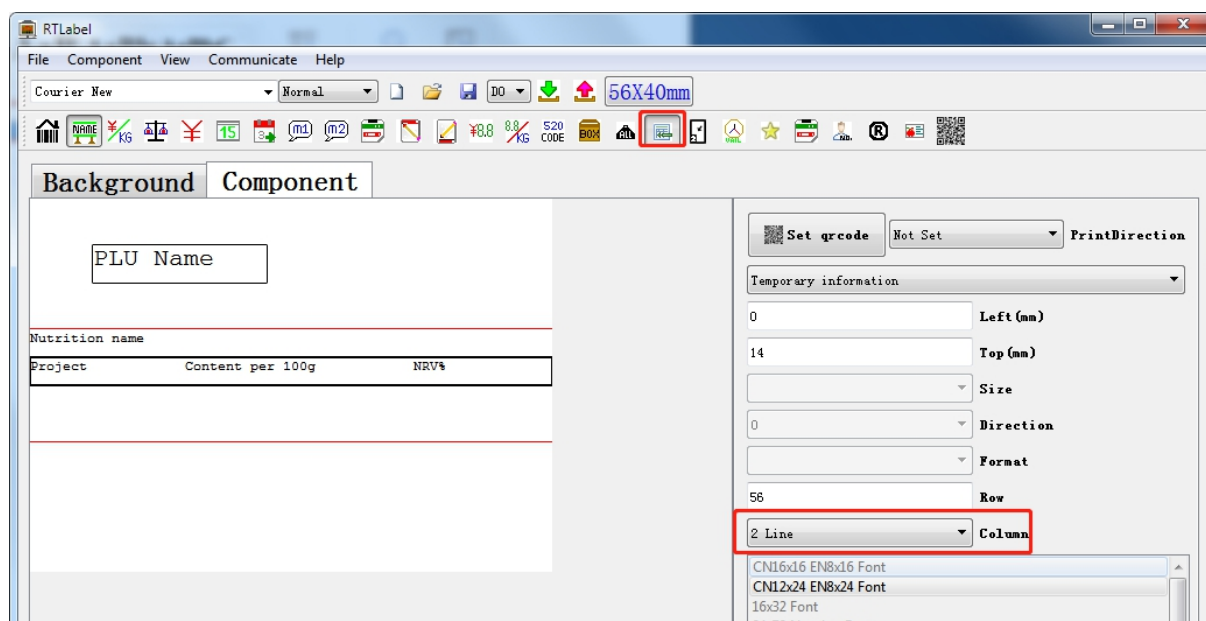
- 4) Click **【ok】** in the above image and return to the main interface; enter 『Content』
『NRV%』, click [Save]. If any information in the table is no longer needed, you can delete it
by clicking [Delete] as shown below.
- 5) 『Content』: The nutrients contained in current PLU “Chinese123”, VB->100mg, are as
shown below.
- 6) 『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

- 7) Click [save] in the above image and return to main interface. At the time, the 『Nutrition』 column
will become “1”, representing the setting is OK, then the information will be downloaded to 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
3	21	0.0	15	Normal	0.0	0	0	0	0	0	0
4	21	0.000	15	Normal	0.000	0	0	0	0	0	0

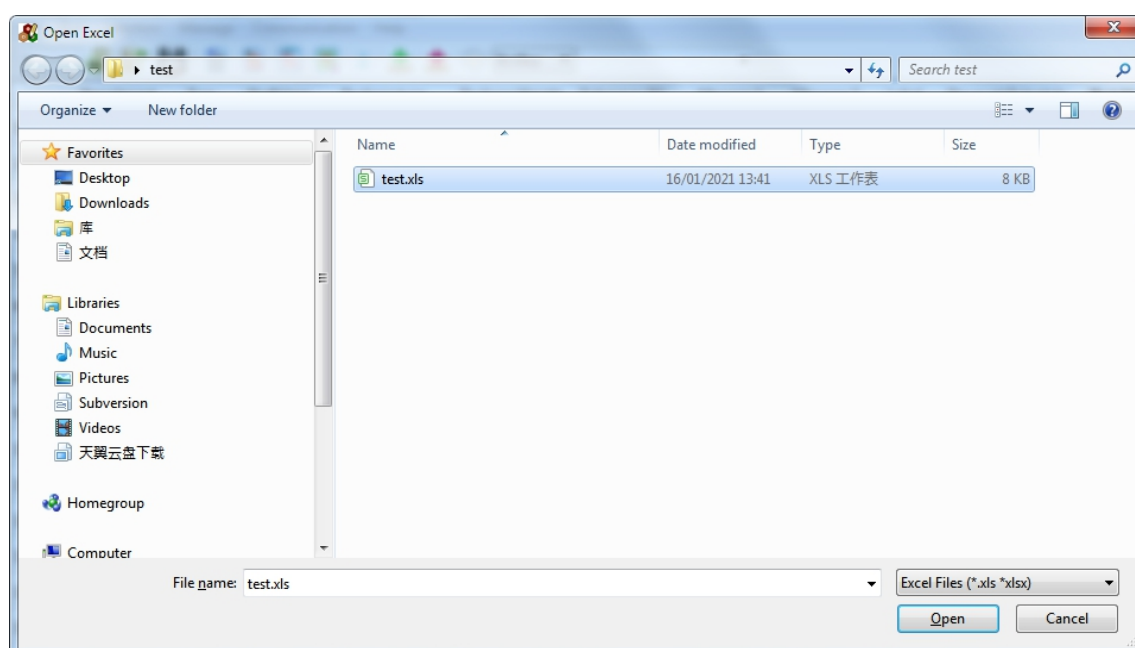
- 8) Open 『Label editor』, put the nutrition label component in, and set the number of lines to be
displayed as shown below, then the information will be downloaded to scale.

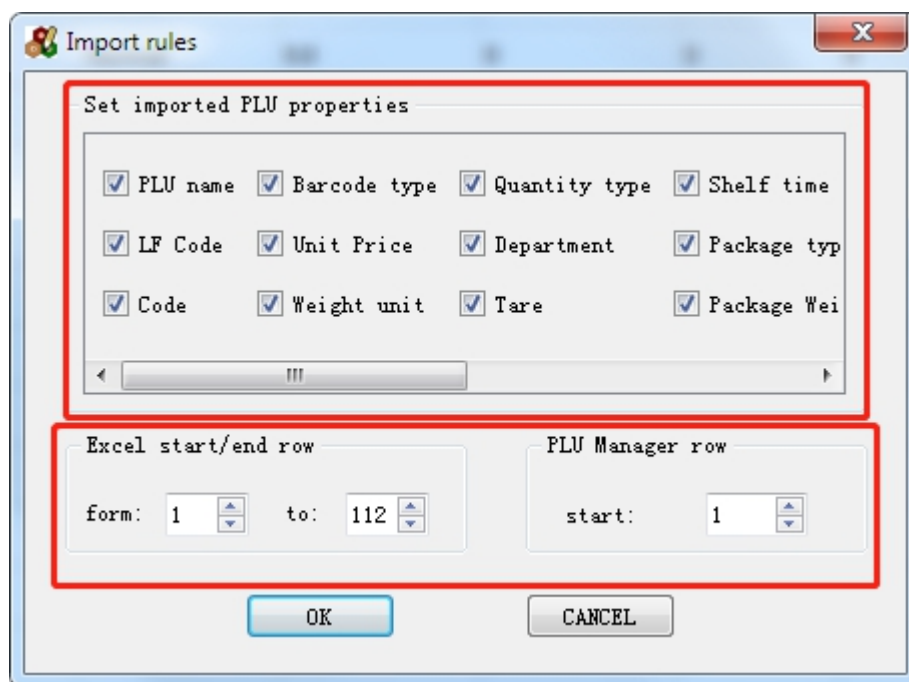


4.3.1.2 【Import into plu from Excel】

Import fixed-format file (.xls, xlsx) from Excel. The format of the file shall be consistent with 【PLU Export to Excel】.

Although the file is .XLS format, it is actually in text format, with Tab key as a delimiter, and can be opened with Excel.





【Set imported PLU properties】

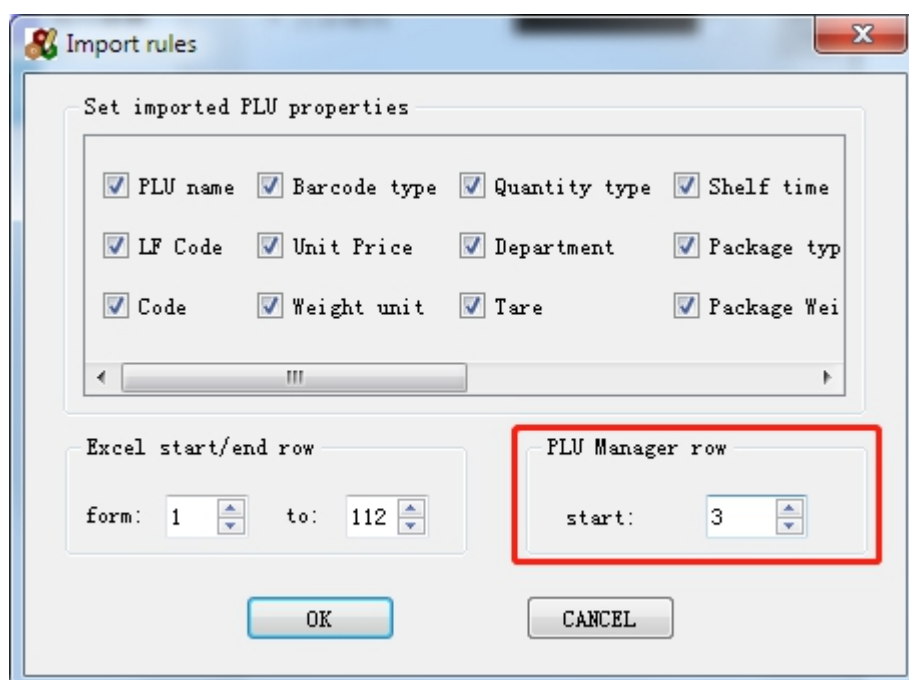
Select the field to be imported.

【Excel start/end row】

Set the row from which the source file starts and the row where the source file ends; 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

File PLU Selection Message Communication Help

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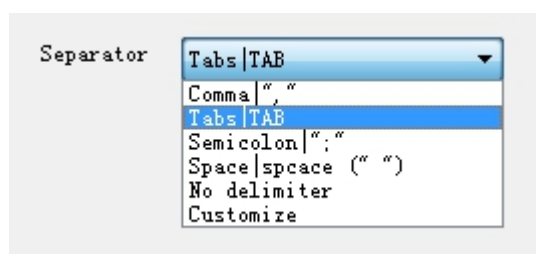
HotKey

	Hotkey	PLU name	LP Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department	Tare	Shelf time	Package type	Package We
1	0		0		0	0	kg	0	0	0	0	Normal	0
2	0		0		0	0	kg	0	0	0	0	Normal	0
3	1	Chinese cabbage	1	1	2	0.90	PCS(g)	10	21	0	15	Normal	0
4	2	Celery	2	2	2	1.40	PCS(kg)	11	21	0.000	15	Normal	0.000
5	3	Lettuce	3	3	2	4.00	PCS(oz)	12	21	0.0	15	Normal	0.0
6	4	Mao Qin	4	4	2	2.40	PCS(lb)	13	21	0.000	15	Normal	0.000
7	5	Scoop dishes	5	5	2	0.50	kg	0	21	0.000	15	Normal	0.000
8	6	Lettuce	6	6	2	3.60	kg	0	21	0.000	15	Normal	0.000
9	7	Cole	7	7	2	2.10	kg	0	21	0.000	15	Normal	0.000

4.3.1.3 【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.



The file format is as follows:

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 0 1
0 0 1 0 0 0 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 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: Represent no delimiter, thus a fixed length must be set for each field.

Project Name	Position	Length
☒ HotKey	1	3
* ☒ Plu Name	2	37
* ☒ LFCCode	3	6
☒ Code	4	7
☐ Barcode Type	5	3
☒ Unit Price	6	7
☐ Unit Weight	7	8
☐ Fixed unit	kg	
☐ Department	8	3
☐ Tare weight	9	6
☐ Shelf Time	10	4
☐ Tolerance	11	4

Please confirm format first, save it, then import it

Separator: No delimiter

☐ First line is title

☐ Multiplied By 100 when importing

☐ Multiplied By 1000 when importing

Unit value setting

Save Import Exit Read Me

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.

『Multiply by 1000 upon unit price import』

Separator: Customize

@

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.

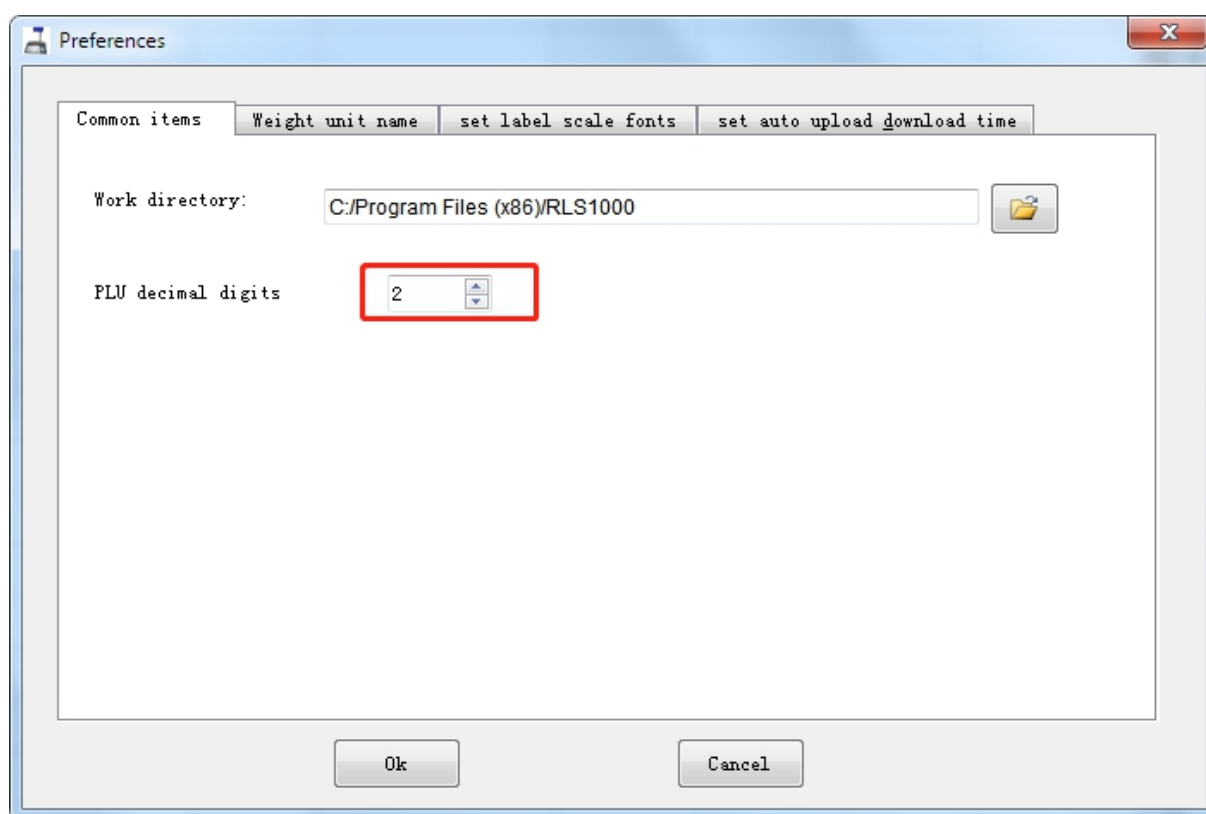
『Position』: Indicate the column of the file to be imported from which the current field starts (with 『Delimiter』 as the delimiter of the column)

『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』**

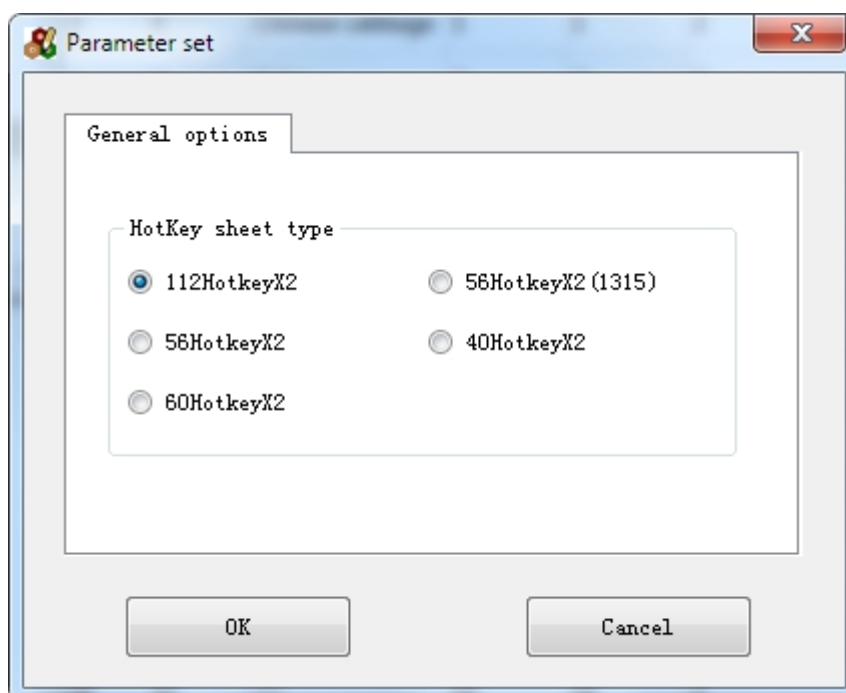
If a unit price in a file to be imported is stored in decimal form, it will be automatically divided by 100 or 1000 according to the setting of 『PLU Decimal digits』 of 『RLS1000』 >>

『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 corresponding external file is to be imported, the unit price shall be multiplied by 100 or 1000. If external file stores unit price in integer format, and the unit price has already been multiplied by 100 or 1000, the item shall not be checked.



4.3.1.4 【Parameter set】

It is designed for setting hotkey mode of the current scale. The setting here will affect the display mode of 【PLU】 >> 【Fill Hotkey Card】.



4.3.2 Description of Module [PLU]

PLU	Selection	Message	Comm
Cut		Ctrl+X	
Copy		Ctrl+C	
Paste		Ctrl+V	
Move to			
Insert			
Delete		Ctrl+D	
Sort by Name			
Sort by LF Code			
Sort by Code			
Fill Hotkey Card			
Discount Table			
Nutrition table Set			

Cut current line.
Copy current line.
Paste the copied line above the current line.
Move the current line to specified line, and original target line will be moved down.
Insert a line above current line.
Delete current line.
PLU is sorted by PLU name.
PLU is sorted by Lf code.
PLU is sorted by code.
Hotkey editing preview, the same as the toolbar button
Set discount information.
Set the nutrition table information for selecting nutrition.

4.3.2.1 [Fill hotkey Card]

Import PLU HotKey

Property

page1

Name

Chinese cabbage

Unit price

0.90

Background cc

Font

WELCOME

LF Code

1

CustomizeHotKey

page2

Name

Unit price

Background cc

Font

WELCOME

LF Code

CustomizeHotKey

Chinese cabbage

Celery

Lettuce

Mao Qin

Scoop dishes

Lettuce

Cole

Lettuce

Parsley

Parsley

Qinggeng vegetables

Apple

Watermelon

Papaya

Melon

Crab apples

Cherry tomatoes

Pear

Fig

Pear

Dan Gross

Jujube

Shakya fruit

Grapefruit

Granadilla

Citrus

Buddhist music orange

Macadamia

Hazelnut

Pine nuts

Lotus seeds

Ginkgo

Chestnut

Candied

Sunflower

Dried longan

White seeds

Chestnuts

Walnuts

Toraya

Cucumber

Almond

Walnut

Almonds

Pigeon

Dictyophora

Fungus

Cordyceps

Mushroom

Mushroom

Coprinus

Mushrooms

Crab flavor mushrooms

Mushroom

Striped bass

Grouper

Carp

Eel

Blackfish

Perch

Salmon

Loach

Carp

Salad oil

Sesame oil

Flour

Sesame

Red beans

Green beans

Broad bean

Rice

Huangmi

Open

Save

Save As

Import PLU hotkey

Save PLU hotkey

Print preview

Download

upload

close

[Open]: Open *.Hotkey file.

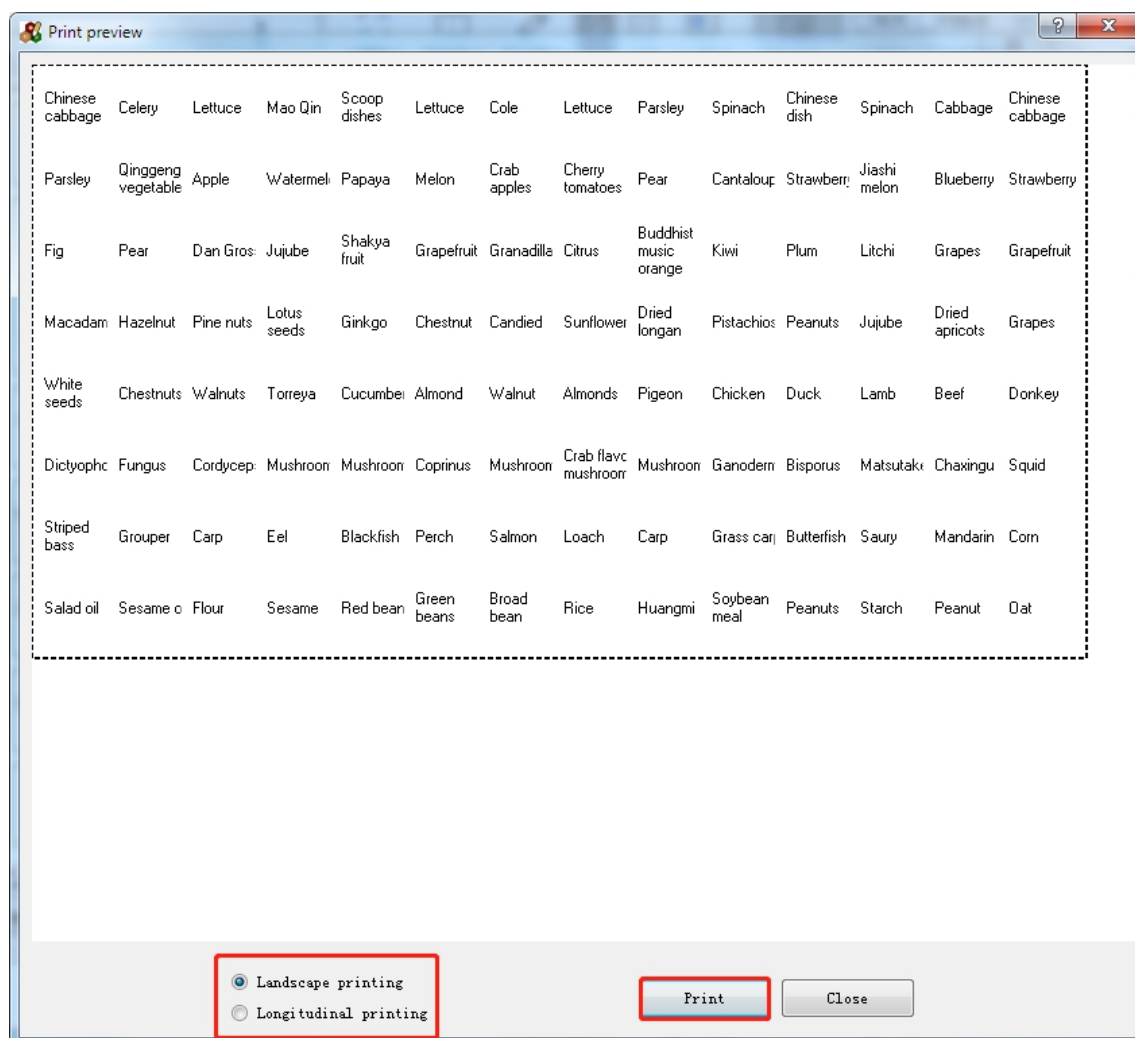
[Save]: Save current Hotkey file.

[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.



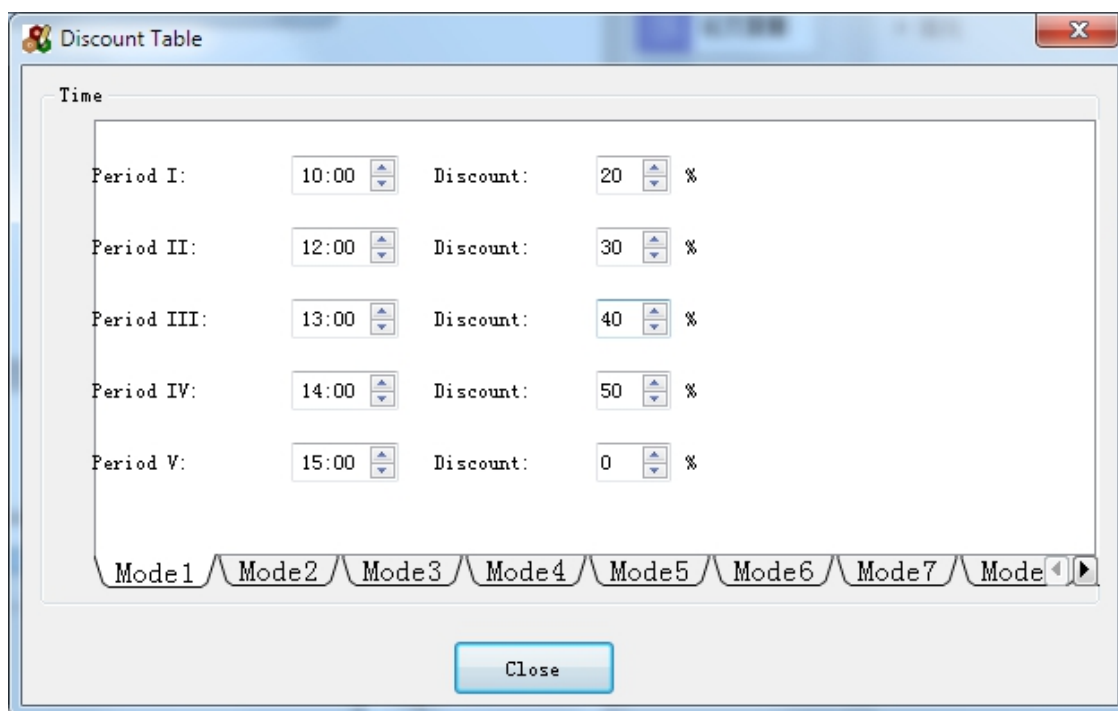
Printing mode can be selected. Horizontal print or Vertical print

[Download]: download hotkey table.

[Upload]: upload hotkey table

4.3.2.2 【Discount Table】

Set time-period discount information, 10 modes can be set (Mode1~Mode10). For details, see 『Discount /Schedule』 in [section 4.3.1.1](#).



The 'Discount Table' dialog box contains a 'Time' section with five rows for Period I through Period V. Each row has a time input field and a discount percentage input field. Below this is a tabbed interface with tabs for Mode1 through Mode8. A 'Close' button is at the bottom.

Period	Time	Discount (%)
Period I:	10:00	20
Period II:	12:00	30
Period III:	13:00	40
Period IV:	14:00	50
Period V:	15:00	0

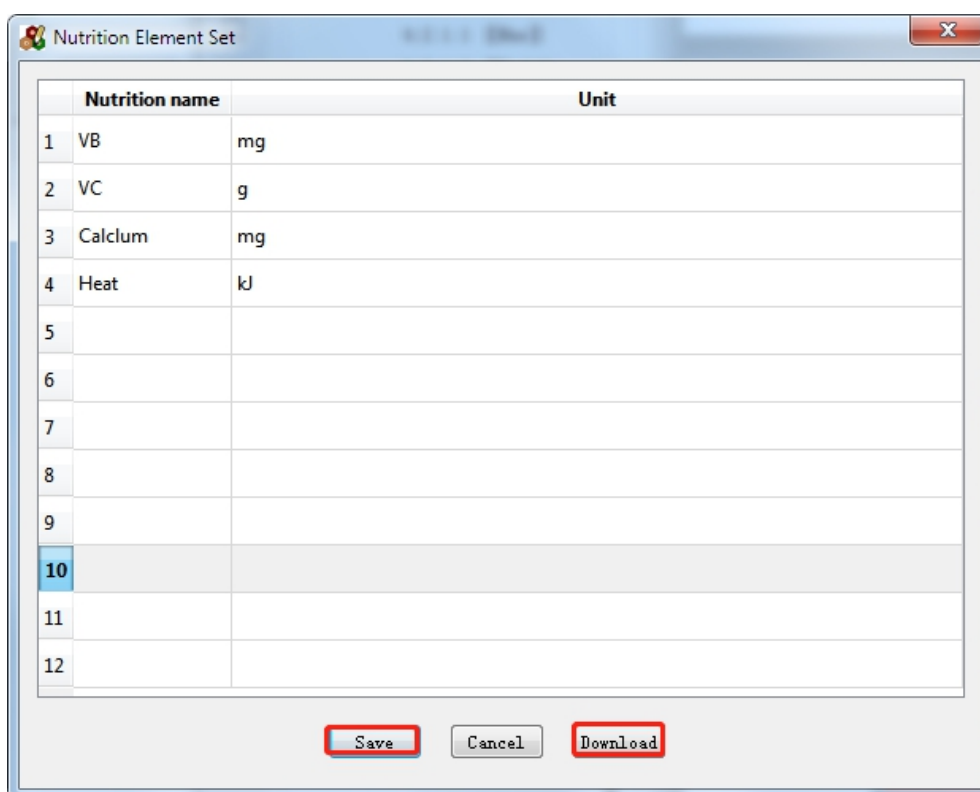
Mode1 / Mode2 / Mode3 / Mode4 / Mode5 / Mode6 / Mode7 / Mode8

Close

4.3.4.4 【Nutrition table set】

Set nutrition element table for 『Nutrition』 selection of main interface table. For details, see [section 4.3.1.1 【New】](#)

After the setting is completed, the “save and download” operation is needed for validating the setting.

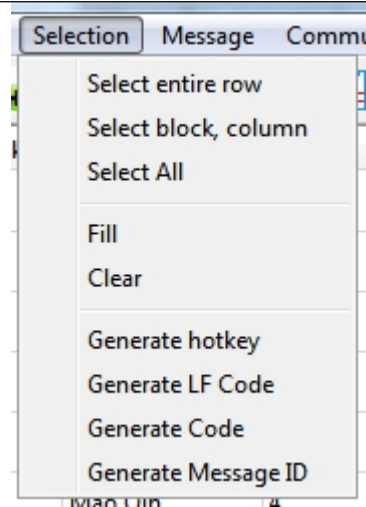


The 'Nutrition Element Set' dialog box displays a table with 12 rows. The first four rows are pre-filled with 'VB', 'VC', 'Calcium', and 'Heat' with units 'mg', 'g', 'mg', and 'kJ' respectively. Rows 5 through 12 are empty. The row number 10 is highlighted. At the bottom are 'Save', 'Cancel', and 'Download' buttons.

	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

4.3.3 Description of Module 『Selection』

	Select entire row.
	Select entire column.
	Check all PLU rows.
	Fill the value of selected column.
	Clear the value of selected row or column.
	Batch generation of hotkey.
	Batch generation of fresh code.
	Batch generation of commodity number.
	Batch generation of Messageld.

4.3.3.1 『Fill』

Taking 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.

RTPLU C:/Program Files (x86)/RLS1000/rtPLU_EN.TXP

File C/ Selection Message Communication Help

2

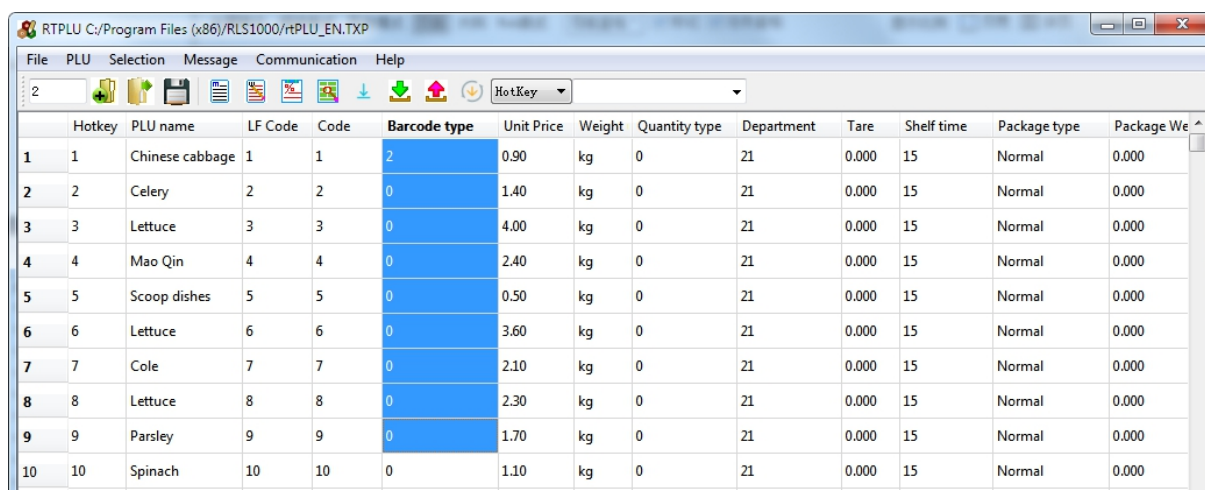


HotKey

	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.

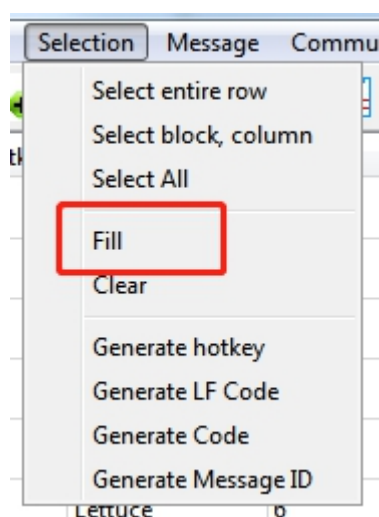
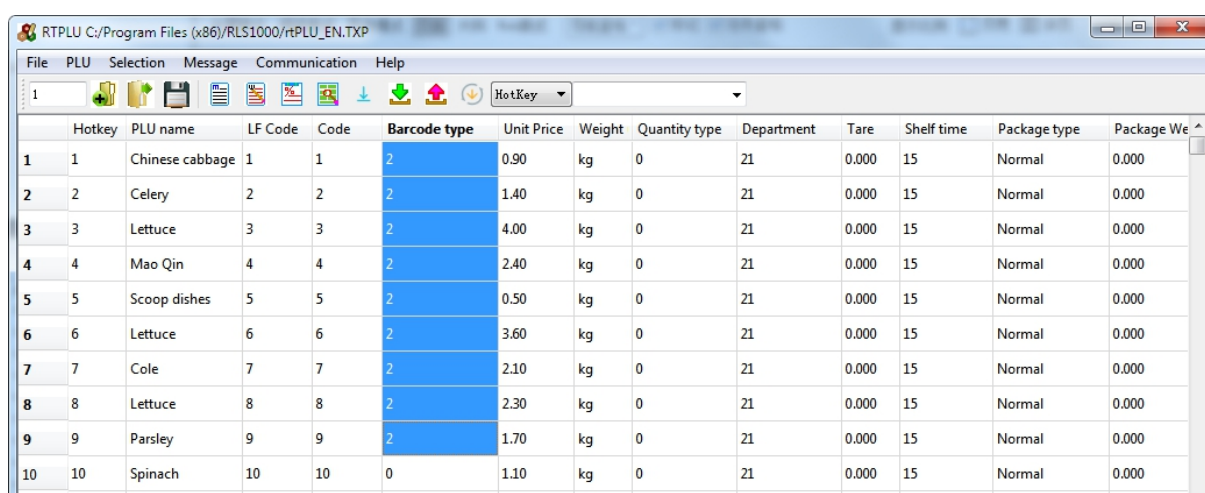
Click 『Selection』 >> 『Select block,column』, or directly drag mouse down to the position to be filled on the column by pressing and dragging mouse.



	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
10	10	Spinach	10	10	0	1.10	kg	0	21	0.000	15	Normal	0.000

3) Then click [Fill], the selected column will be automatically filled with “2”.

4)

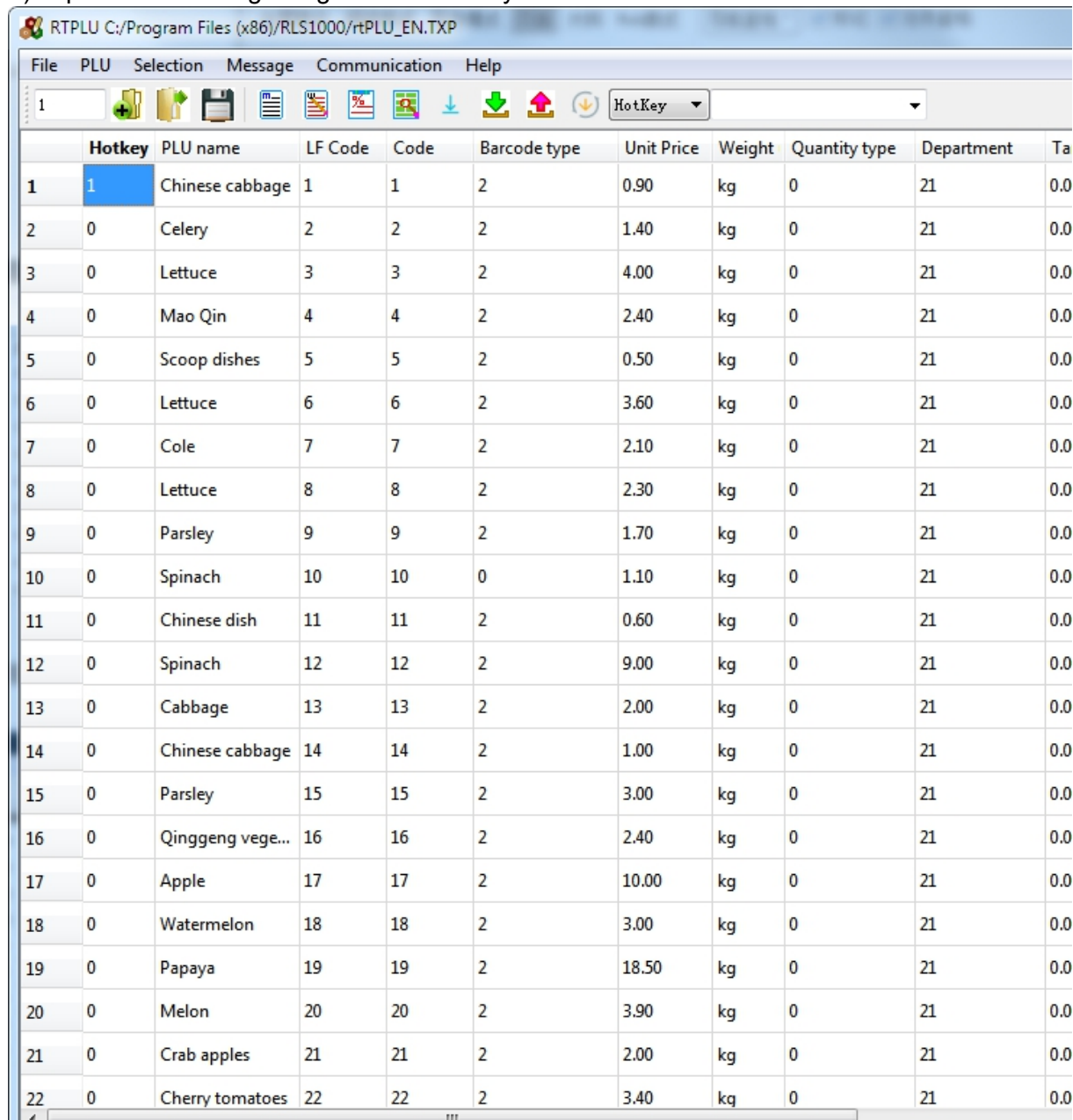



	Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department	Tare	Shelf time	Package type	Package We
1	1	Chinese cabbage	1	1	2	0.90	kg	0	21	0.000	15	Normal	0.000
2	2	Celery	2	2	2	1.40	kg	0	21	0.000	15	Normal	0.000
3	3	Lettuce	3	3	2	4.00	kg	0	21	0.000	15	Normal	0.000
4	4	Mao Qin	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
6	6	Lettuce	6	6	2	3.60	kg	0	21	0.000	15	Normal	0.000
7	7	Cole	7	7	2	2.10	kg	0	21	0.000	15	Normal	0.000
8	8	Lettuce	8	8	2	2.30	kg	0	21	0.000	15	Normal	0.000
9	9	Parsley	9	9	2	1.70	kg	0	21	0.000	15	Normal	0.000
10	10	Spinach	10	10	0	1.10	kg	0	21	0.000	15	Normal	0.000

4.3.3.2 『Generate hotkey』

The operation is as follows:

1) Input "1" at the beginning of the 『HotKey』 column.



The screenshot shows the RTPLU software interface. The title bar indicates the file path: C:\Program Files (x86)\RLS1000\rtPLU_EN.TXP. The menu bar includes File, PLU, Selection, Message, Communication, and Help. Below the menu bar is a toolbar with various icons. A 'HotKey' dropdown menu is visible, currently set to '1'. The main area displays a table with the following columns: Hotkey, PLU name, LF Code, Code, Barcode type, Unit Price, Weight, Quantity type, Department, and Ta. The table contains 22 rows of data, with the first row highlighted in blue.

	Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department	Ta
1	1	Chinese cabbage	1	1	2	0.90	kg	0	21	0.0
2	0	Celery	2	2	2	1.40	kg	0	21	0.0
3	0	Lettuce	3	3	2	4.00	kg	0	21	0.0
4	0	Mao Qin	4	4	2	2.40	kg	0	21	0.0
5	0	Scoop dishes	5	5	2	0.50	kg	0	21	0.0
6	0	Lettuce	6	6	2	3.60	kg	0	21	0.0
7	0	Cole	7	7	2	2.10	kg	0	21	0.0
8	0	Lettuce	8	8	2	2.30	kg	0	21	0.0
9	0	Parsley	9	9	2	1.70	kg	0	21	0.0
10	0	Spinach	10	10	0	1.10	kg	0	21	0.0
11	0	Chinese dish	11	11	2	0.60	kg	0	21	0.0
12	0	Spinach	12	12	2	9.00	kg	0	21	0.0
13	0	Cabbage	13	13	2	2.00	kg	0	21	0.0
14	0	Chinese cabbage	14	14	2	1.00	kg	0	21	0.0
15	0	Parsley	15	15	2	3.00	kg	0	21	0.0
16	0	Qinggeng vege...	16	16	2	2.40	kg	0	21	0.0
17	0	Apple	17	17	2	10.00	kg	0	21	0.0
18	0	Watermelon	18	18	2	3.00	kg	0	21	0.0
19	0	Papaya	19	19	2	18.50	kg	0	21	0.0
20	0	Melon	20	20	2	3.90	kg	0	21	0.0
21	0	Crab apples	21	21	2	2.00	kg	0	21	0.0
22	0	Cherry tomatoes	22	22	2	3.40	kg	0	21	0.0

2) Select column.

Click 『Selection』 >> 『Select block,column』, or directly drag mouse down to the position to be filled on the column by pressing and dragging mouse.

RTPLU C:/Program Files (x86)/RLS1000/rtPLU_EN.TXP

File PLU Selection Message Communication Help

1           HotKey 

	Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type	Department	Ti
1	1	Chinese cabbage	1	1	2	0.90	kg	0	21	0.0
2	0	Celery	2	2	2	1.40	kg	0	21	0.0
3	0	Lettuce	3	3	2	4.00	kg	0	21	0.0
4	0	Mao Qin	4	4	2	2.40	kg	0	21	0.0
5	0	Scoop dishes	5	5	2	0.50	kg	0	21	0.0
6	0	Lettuce	6	6	2	3.60	kg	0	21	0.0
7	0	Cole	7	7	2	2.10	kg	0	21	0.0
8	0	Lettuce	8	8	2	2.30	kg	0	21	0.0
9	0	Parsley	9	9	2	1.70	kg	0	21	0.0
10	0	Spinach	10	10	0	1.10	kg	0	21	0.0
11	0	Chinese dish	11	11	2	0.60	kg	0	21	0.0
12	0	Spinach	12	12	2	9.00	kg	0	21	0.0
13	0	Cabbage	13	13	2	2.00	kg	0	21	0.0
14	0	Chinese cabbage	14	14	2	1.00	kg	0	21	0.0
15	0	Parsley	15	15	2	3.00	kg	0	21	0.0
16	0	Qinggeng vege...	16	16	2	2.40	kg	0	21	0.0
17	0	Apple	17	17	2	10.00	kg	0	21	0.0
18	0	Watermelon	18	18	2	3.00	kg	0	21	0.0
19	0	Papaya	19	19	2	18.50	kg	0	21	0.0
20	0	Melon	20	20	2	3.90	kg	0	21	0.0
21	0	Crab apples	21	21	2	2.00	kg	0	21	0.0
22	0	Cherry tomatoes	22	22	2	3.40	kg	0	21	0.0

0~168,0~224

5) Then click 『Generate hotkey』, the selected column will automatically generate hotkeys in order.

RTPLU C:/Program Files (x86)/RLS1000/rtPLU_EN.TXP

File PLU Selection Message Communication Help

1

	Hotkey	PLU name	LF Code	Code	Barcode type	Unit Price	Weight	Quantity type
1	1	Chinese cabbage	1	1	2	0.90	kg	0
2	2	Celery	2	2	2	1.40	kg	0
3	3	Lettuce	3	3	2	4.00	kg	0
4	4	Mao Qin	4	4	2	2.40	kg	0
5	5	Scoop dishes	5	5	2	0.50	kg	0
6	6	Lettuce	6	6	2	3.60	kg	0
7	7	Cole	7	7	2	2.10	kg	0
8	8	Lettuce	8	8	2	2.30	kg	0
9	9	Parsley	9	9	2	1.70	kg	0
10	10	Spinach	10	10	0	1.10	kg	0
11	11	Chinese dish	11	11	2	0.60	kg	0
12	12	Spinach	12	12	2	9.00	kg	0
13	13	Cabbage	13	13	2	2.00	kg	0
14	14	Chinese cabbage	14	14	2	1.00	kg	0
15	15	Parsley	15	15	2	3.00	kg	0
16	16	Qinggeng vege...	16	16	2	2.40	kg	0
17	17	Apple	17	17	2	10.00	kg	0
18	18	Watermelon	18	18	2	3.00	kg	0
19	19	Papaya	19	19	2	18.50	kg	0
20	20	Melon	20	20	2	3.90	kg	0
21	21	Crab apples	21	21	2	2.00	kg	0
22	22	Cherry tomatoes	22	22	2	3.40	kg	0

0~168,0~224

4.3.3.3 【Generate LF Code】

The method is the same as that for 【Generate hotkey】.

4.3.3.4 【Generate Code】

The method is the same as that for 【Generate hotkey】.

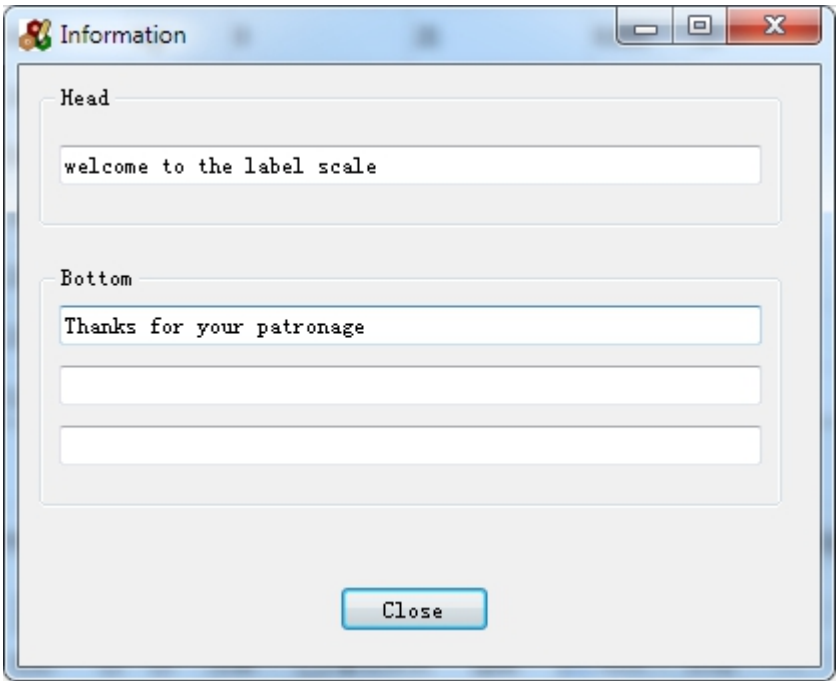
4.3.3.5 【Generate Message ID】

4.3.4 Description of Module **〔Message〕**

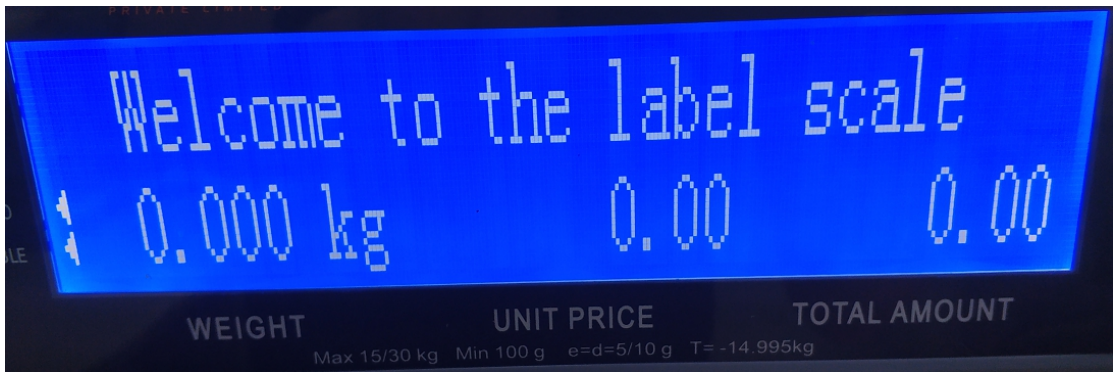
	Set the display information of label components [Header] and [bottom], and the welcome message of screen; the same as the toolbar  Edit information, for Message1 and Message2.
---	--

4.3.4.1 **〔Message〕**

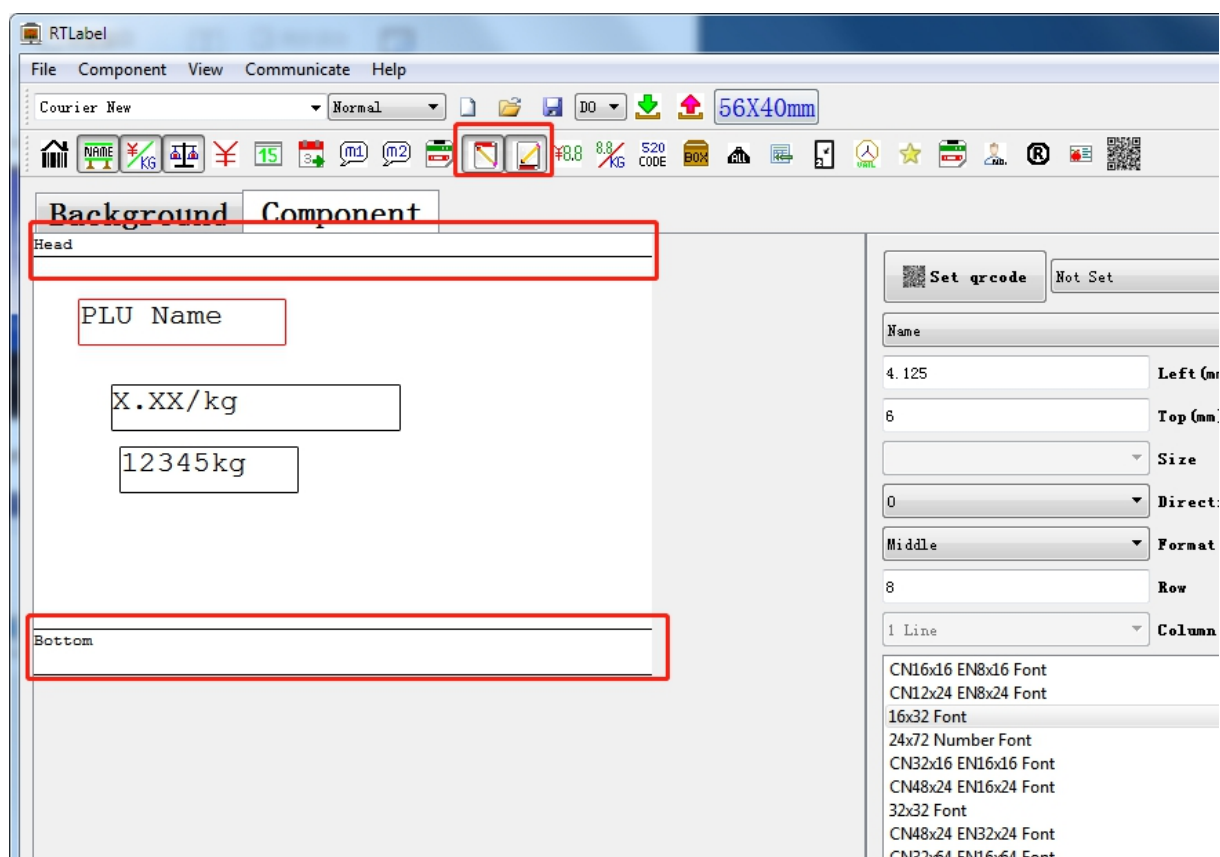
Set the display information of label components [Header] and [bottom], and the welcome message of screen.



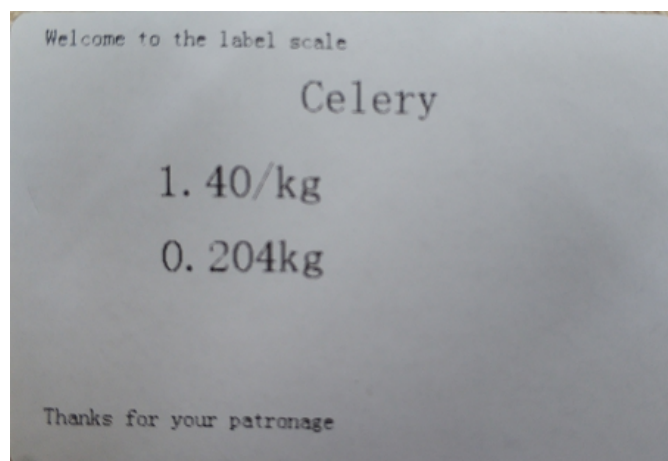
After setting as above and downloading, the following subtitles will be displayed on the screen.



Put the [Head] [Bottom] component in the **〔Label editor〕** and download information.



The print effect is as follows:



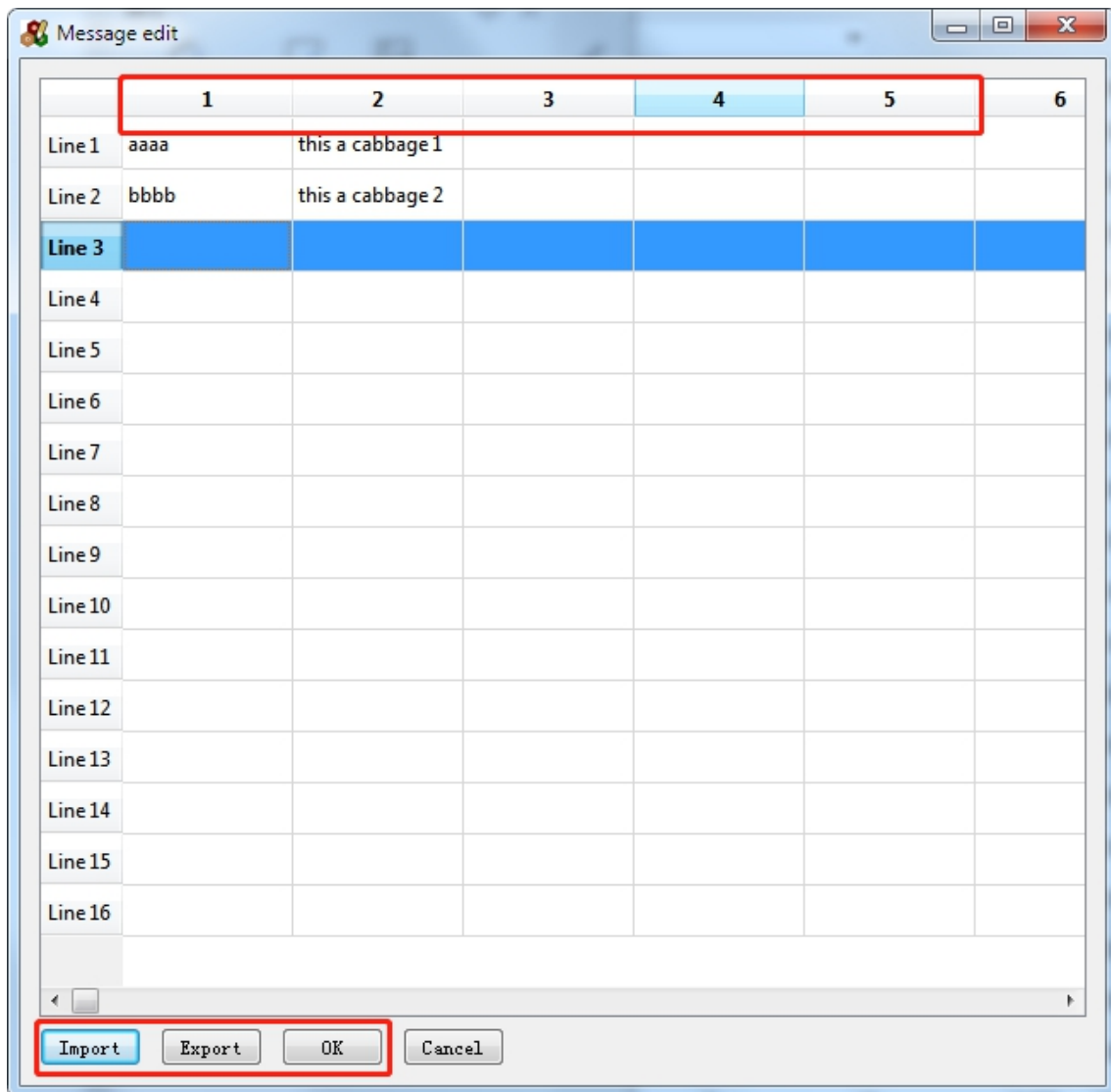
4.3.4.3 【Edit Message】

Set all the information of 『Message 1』 and 『Message2』.

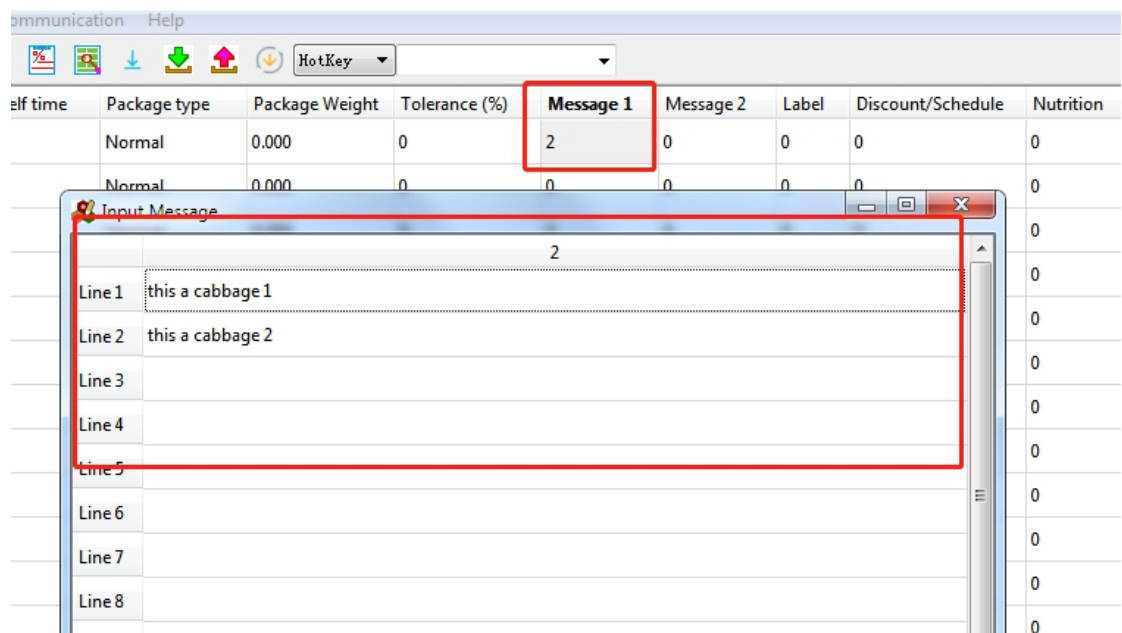
【Export】: Export information file.

【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 Messag1 corresponds to the column 【2】 of the above image.



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

4.3.5 Description of Module [Communication]

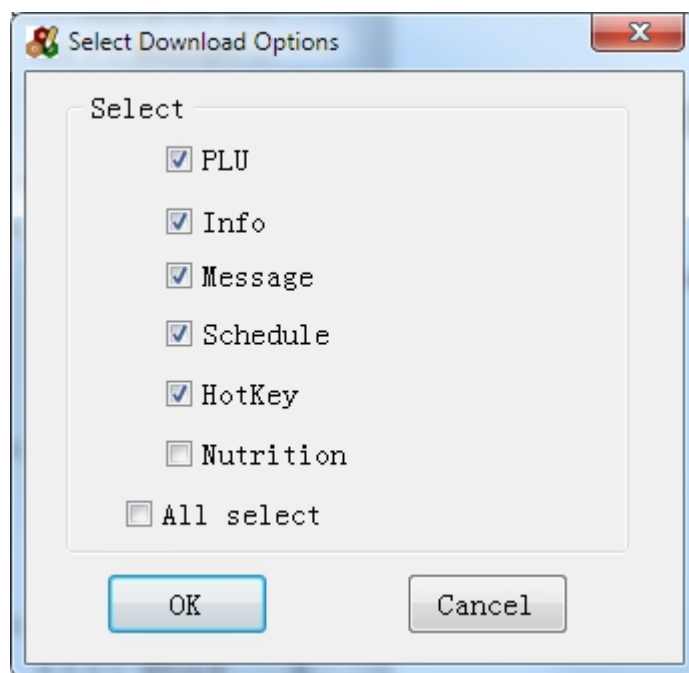
 Communication Help	Download PLU	Download PLU; the same as the toolbar 
	Update PLU	Update PLU.
	Upload PLU	Upload PLU information; the same as the toolbar 

4.3.5.1 [Download PLU]

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

Note: This function will clear the PLU on scale before downloading, and then downloading will be performed.

- [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.



4.3.5.2 【Update PLU】

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

4.3.5.3 【Upload PLU】

Upload commodities from scale. For uploading, a new file will be created before uploading.

5. Appendix

5.1 Appendix I. Barcode coding table

Bar code type	department	Item no.	Total price	weight	Check sum
00~09: Ean13code, the first two code are department code:					
00	DD(2)	IIIIIIII(10)	X	X	C
01	DD(2)	IIIII(6)	PPPP(4)	X	C
02	DD(2)	IIIII(5)	PPPPP(5)	X	C
03	DD(2)	IIII(4)	PPPPPP(6)	X	C
04	DD(2)	III(3)	PPPPPPP(7)	X	C
05	DD(2)	IIIII(6)	X	W.WWW(4)	C
06	DD(2)	IIIII(6)	X	WW.WW(4)	C
07	DD(2)	IIIII(5)	X	WW.WWW(5)	C
08	DD(2)	IIIII(5)	X	WWWWW.W(5)	C
09	DD(2)	IIIII(5)	X	WWWWW(5)	C
10~19: Ean13code, the first two code are fix code:					
10	20(2)	IIIIIIII(10)	X	X	C
11	21(2)	IIIII(6)	PPPP(4)	X	C
12	22(2)	IIIII(5)	PPPPP(5)	X	C
13	23(2)	IIII(4)	PPPPPP(6)	X	C
14	24(2)	III(3)	PPPPPPP(7)	X	C
15	25(2)	IIIII(6)	X	W.WWW(4)	C
16	26(2)	IIIII(6)	X	WW.WW(4)	C
17	27(2)	IIIII(5)	X	WW.WWW(5)	C
18	28(2)	IIIII(5)	X	WWWWW.W(5)	C
19	29(2)	IIIII(5)	X	WWWWW(5)	C
20: without bar code					
21~29: Ean13code, the first code is department code:					
21	D(1)	IIIIII(7)	PPPP(4)	X	C
22	D(1)	IIIII(6)	PPPPP(5)	X	C
23	D(1)	IIIII(5)	PPPPPP(6)	X	C
24	D(1)	IIII(4)	PPPPPPP(7)	X	C
25	D(1)	IIIIII(7)	X	W.WWW(4)	C
26	D(1)	IIIIII(7)	X	WW.WW(4)	C
27	D(1)	IIIII(6)	X	WW.WWW(5)	C
28	D(1)	IIIII(6)	X	WWWWW.W(5)	C
29	D(1)	IIIII(6)	X	WWWWW(5)	C
30~35, 40~45: 18code, the first code is department code					
30&33	D(1)	IIIII(6)	PPPPP(5)	WW.WWW(5)	C
31&34	D(1)	IIIII(6)	PPPPP(5)	WWWWW.W(5)	C

32&35	D(1))	IIIIII(6)	PPPPP(5)	WWWWW(5)	C
Bar code	departm	Item no.	Total price	weight	Check sum

type	ent				
39, 46~49: 18code					
39	DD(2)	IIIIII(6)	PPPPP(5)	WWWWW(5)	
46	DD(2)	IIIIII(6)	PPPPP(5)	WWWWW(5)	
47	DD(2)	IIIIII(6)	PPPPP(5)	WWWWW(5)	
48	DD(2)	IIIIII(6)	PPPPP(5)	WWWWW(5)	
49	DD(2)	IIIIII(6)	PPPPP(5)	WWWWW(5)	
50~55: 8code					
50	X	IIIIII(7)	X	X	C
51	D(1)	IIIIII(6)	X	X	C
52	DD(2)	IIII(5)	X	X	C
53	X	IIIIII(8)	X	X	X
54	D(1)	IIIIII(7)	X	X	X
55	DD(2)	IIIIII(6)	X	X	X

Bar code type	depart ment	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)	WWWW.W(5))
38	D(1)	LLLLLL(6)	BBBB(4)	RR(2)	WWWWW(5)

Bar code type	depart ment	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)	WWWW.W(5)	C
68	D(1)	LLLLL(5)	BBBB(4)	RR(2)	WWWWW(5)	C

Bar code type	depart ment	Item no.	Total/unit price	weight	Check sum
60~65: ISBN code, one of 18 code					
60	D(1)	IIIIII(6)	PPPPP(5)	WW.WWW(5)	C
61	D(1)	IIIIII(6)	PPPPP(5)	WWWW.W(5)	C
62	D(1)	IIIIII(6)	PPPPP(5)	WWWWW(5)	C
63	D(1)	IIIIII(6)	UUUUU(5)	WW.WWW(5)	C
64	D(1)	IIIIII(6)	UUUUU(5)	WWWW.W(5)	C
65	D(1)	IIIIII(6)	UUUUU(5)	WWWWW(5)	C

Bar code type	depart m ent	Item no.	Quantity/weig h t	Total price	Unit price	Check sum
90~95: 18code, the first two codes are department code:						
90	DD(2)	IIIIII(6)	WW.WWW		UUUU(4)	C
91	DD(2)	IIIIII(6)	WWWW.W		UUUU(4)	C
Bar code type	depart m ent	Item no.	Quantity/weig h t	Total price	Unit price	Check sum
92	DD(2)	IIIIII(6)	WWWWW		UUUU(4)	C
93	D(1)	IIIIII(6)		PPP.PP(5)	UUU.UU(5)	C
94	DD(2)	IIIII(5)	WWW.WW	PPP.PP(5)		C
95	DD(2)	IIIIII(6)	WWWWW		UUUU(4)	C

Letter meaning in form are as follows:

C: CHECKSUM

D: Name of department.

2: fixed No."2"

I : Code

L: LFcode

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 price barcode, barcode type often choose 2 or 22, but if weight barcode, barcode type often choose 7 or 27

CHECKSUM is calculated by scale automatically, user don't need to input in 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 No. write with Code Field; PLU No. write in LFcode field, 60-65 are ISBN code.

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)

5.2 Appendix II. Fresh commodities batch management

The advantages of fresh batch management:

Tracking fresh commodities of each batch, check stock of each batch alone, use different discount based on different storage time within quality guarantee period, warned while commodities is about to expire (metamorphism and even corruption), it is convenient to find out expired batch and deal with timely.

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

Generate a batch No. for fresh commodities with batch management, format: year(1) + which week(2) + which day in a week(1), total four digits, meanwhile, print out commodity name, No., batch No., and put in this batch, then packing persons can recognize this commodity correctly. In following process, commodity No. + Batch No. is unique to recognize this commodity in this batch. So far, label printing scale has already performed batch management function, the method is to add three kinds of barcode type, if user call this type PLU, scale will remind him to input batch No., three kinds of barcode type are as follows:

Barcode type	Department	LFcode	Batch No.	Discount	Weight	
36-38: 18 code, front code is department code, unique for fresh batch management						
36	D(1)	LLLLLL(6)	BBBB(4)	R(2)	WW.WWW(5)	
37	D(1)	LLLLLL(6)	BBBB(4)	R(2)	WWWW.W(5)	
38	D(1)	LLLLLL(6)	BBBB(4)	R(2)	WWWWWW(5)	
Barcode type	Department	LFcode	Batch No.	Discount	Weight	Checksum
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)	WWWW.W(5)	C
68	D(1)	LLLLL(5)	BBBB(4)	RR(2)	WWWWWW(5)	C

Letter meaning in form are as follows:

D: Department No. P: Total price
I: PLU No. R: Discount
L: LFcode W: Weight

Note:

1. LFcode is corresponding to commodity code in backstage management system, PLU No. is corresponding to batch No. in backstage management system
 2. Batch management is majorly for commodity packing in backstage, not real-time selling.
 3. When cash register decode, how to distinguish batch or non-batch commodity, there are two methods:
 - (1) set different department No., for example: the department No. of commodity without batch management is 2, and with batch management is 3
 - (2) because the position and length of LFcode in two kinds of 18 code is same, decode LFcode first, then distinguish batch commodity or not according to LFcode
- Using method: Call PLU, screen will display to input batch No., input four digits code, put on weight, OK.

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