

Barcode Label Scale

RLS
Series
Manual

Contents

INTRODUCTION	1
1. THE LABEL SCALE'S SPECIFICATION.....	2
2. STANDARD EQUIPMENT	2
3. FEATURES SUMMARY	2
3.1 Unique and powerful network	2
3.2 Usage is easy to learn.....	2
3.3 Advanced functions and durable quality.	3
4. OVERALL APPEARANCE	3
4.1 Installation.....	3
4.2 The installation of the thermal label paper.....	4
4.3 Keyboard.....	5
4.4 Description of label paper	6
5. OVERALL APPEARANCE	6
6. COMMON EASY-TO -USE OPERATIONS	7
6.1 Switch on and off	7
6.2 Weighing and pricing	8
6.3 Peeling/Tare operation	8
6.4 Discount	9
6.5 Rate changing.....	9
6.5.1 Permanent changes in the price.....	9
6.5.2 One-time price change	9
6.6 Select weight unit.....	10
6.7 Accounting by number or quantity	10
6.8 Price label printing.....	10
6.9 Quick copy.....	10
6.10 Automatic fast packaging.....	11
6.11 Operation button in common use	11
7. WIRELESS LABEL SCALE SETTING INSTRUCTION	11
7.1 Network connection mode	11
7.2 Router set up	11
7.3 Label Scale Setting	12
7.4 Computer RLS1000 software settings	12
8. FUNCTION SETTING.....	12
8.1 Input settings of single item.....	12
8.2 System set up	13
8.3 Lock	14
9. TROUBLESHOOTING.....	14
9.1 Scales crash.....	14
9.2 Print related issues	15
9.3 The key issues	16

9.4 Weigh problem	17
9.5 Communication problem	17
9.6 Display problem.....	18
9.7 Error code.....	18
9.8 Other problems.....	18
10. THE ACCELERATION OF GRAVITY REVISED TABLE OF CITIES IN CHINA.....	20

Introduction

Thank you for choosing our Label scale RLS. In order to operate RLS correctly, User manual is detailed in function and operation method of RLS , which help user with doubt quickly when come up against mechanical fault .

RLS is the best choice for user in label printing business line with fashional appearance, power function and high durable, which make RLS more popular in store ,fresh food supermarket ,farmers market and so on.

Note : this product information are subject to change without prior notice.

This information is for reference only. In addition to China's existing laws and regulations, the company does not undertake any due to the direct or indirect losses caused by use of this information.

The company reserves the final interpretation.

1. The Label scale's specification

- The Weighing range and accuracy.

Max weight: 15kg

Min weight: 40g

0kg to 6kg * 0.002kg (e=2g)

6kg to 15kg * 0.005kg (e=5g)

Max weight: 30kg

Min weight: 100g

0kg to 15kg * 0.005kg (e=5g)

15kg to 30kg * 0.010kg (e=10g)

Max weight: 33kg

Min weight: 100g

0kg to 15kg * 0.005kg (e=5g)

15kg to 30kg * 0.010kg (e=10g)

- The accuracy grade: **III**

- Resolution:

Input sensitivity: greater than or equal to 50u V/D

zero-point adjustment range: $\pm 60\text{MV}$

temperature coefficient: $\pm 0.0012\%\text{CTYP}$

[Zero] $\pm (0.2\mu\text{V} + 0.0008\% \text{ of Dead Load}) / ^\circ\text{CTYP}$

Nonlinearity: 0.01%F.S.

A/D resolution: Max 30000 resolution

Display resolution: 1/3000

A/D conversion rate: 6 times/second

- LCD display board:

Info/weight: 5byte(APHA)

simple lattice: 8 byte

Total lattice: 8byte

Unit of weight: g. kg.

- Regular:

Power supply: AC100-240V, 50/60Hz

Power consumption: Standby 3W, line printing 30W

operating temperature: 0 C-40 C

physical appearance: Length 437mm $\times$ width 372mm $\times$ high 523mm

2. Standard Equipment

- Host
- Tray
- Display group(A liquid crystal display, display bar, the four screws)
- Thermal label paper
- One fuses
- User manual
- Serial cable
- Power cable

3. Features Summary

3.1 Unique and powerful network

- Use the Ethernet interface technology and the data transfer rate has been improved drastically

3.2 Usage is easy to learn

- Operate the PLU by single bond to make fast sales, and the front desk staff could use it without training.
- 112 direct buttons and 224 hot buttons can be set up, and the common goods can be specified to hot buttons

mostly.

3.3 Advanced functions and durable quality.

- a. The under machine program can be upgraded by PC, the program will be the latest version and the function would be the most perfect forever.
- b. The design of the Printer structure is exquisite, is not easy to roll the paper.
- c. Barcode rotation could extend the lifetime of the print head, and the printer mechanism could be adjusted according to the paper's sensitivity.
- d. Having the function of weighing and pricing for the various packages, along with special designed barcode printing.
- e. Function: It can use a few goods to make up to platter, fruit basket, etc.
- f. Each PLU could be set to multiple tags.
- g. Each PLU could be used by separated barcode encoding formats, which could solve the encoding problem from distribution and consignment sales.
- h. Each PLU could use separated units.
- i. The unit of quantity could be self defined, such as block, packages, etc
- j. PLU has abundant information, Including barcode format, fresh code, package type, information provision, etc.
- k. Rotational printing the whole label.
- l. Support Ean-8, Ean-13 and 18 code, completely solving the problem of fresh commodities code.
- m. Unique bar code type to manage the fresh commodities by batch

4. Overall Appearance

4.1 Installation



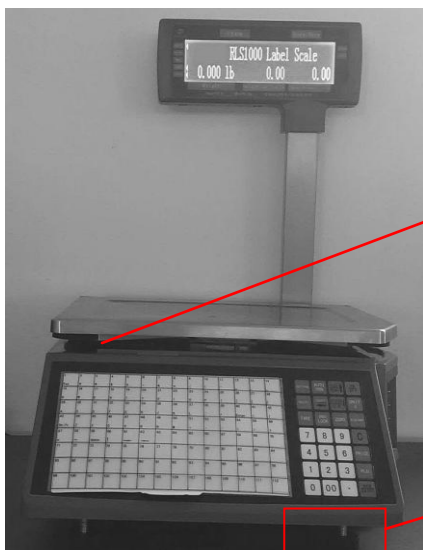
a. Connect air fittings



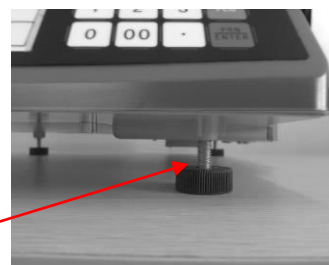
b. put the air fittings inside the display bar



c. Install the display bar and put the tray

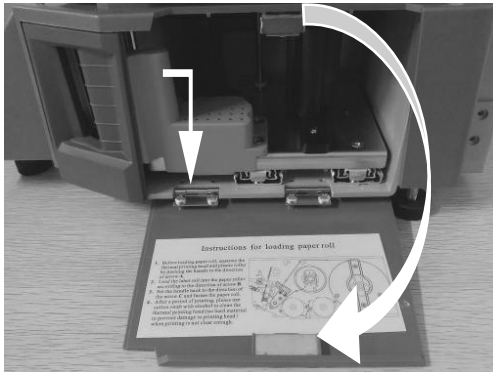


Put the level tool under the tray.

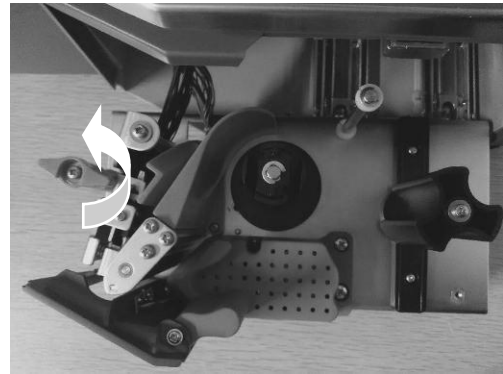


Adjust the feet to make the level tool inside the little circle

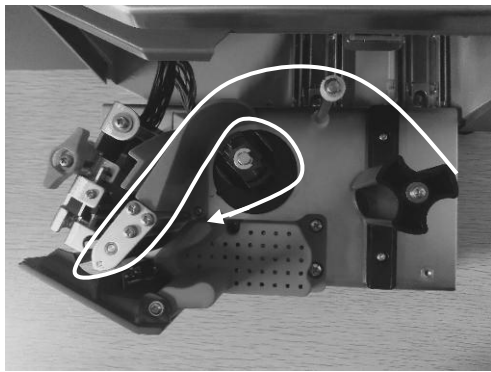
4.2 The installation of the thermal label paper



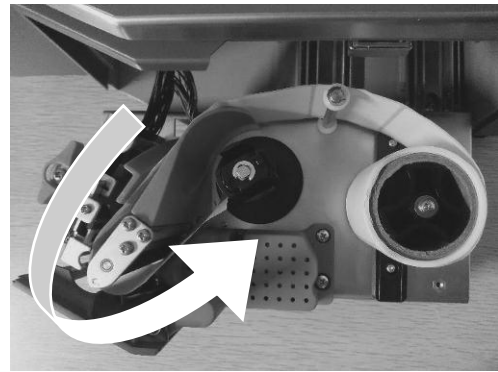
a. Open the side panel



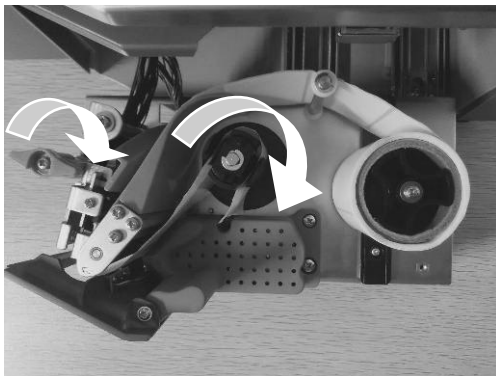
b. Take out the printer



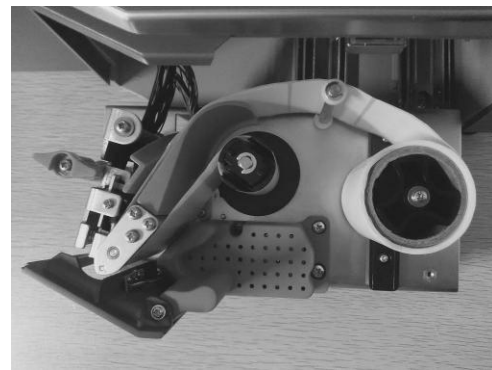
c. Open the print head



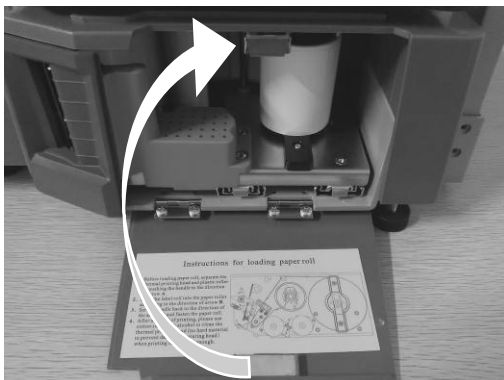
d. Remove first few labels, and then loading the roll



e. Thread the front of new label roll through the filter plate and wrap in pick-up clamp, and close the printing head (As shown in the figure)



f. Press [↑] button to roll the label paper



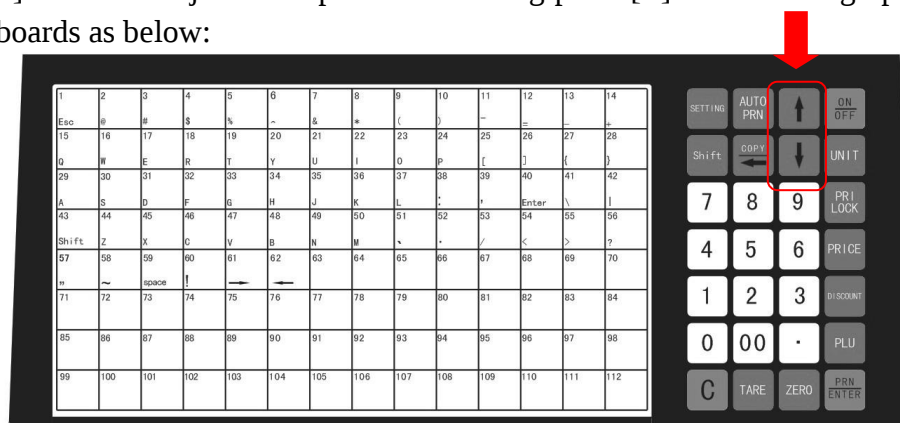
g. Put the printer back to the host printer



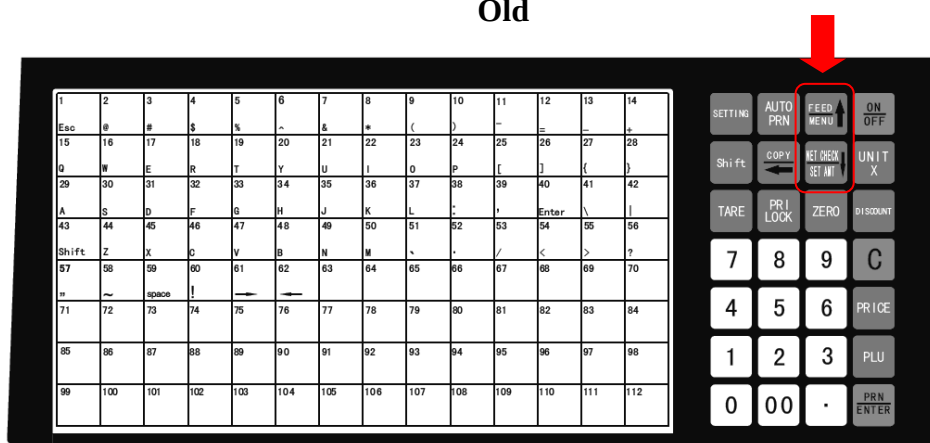
h. Close the side cover of the printer

4.3 Keyboard

Press [↑]、[↓] button to adjust label position and long press [↑] button to align paper, there are old and new keyboards as below:



Old



New

●Differences of new and old keypad

Layout: Several keys of Number and Function make the related adjustments

Function:The new keyboard Deletes the function of unwinding key ,which is instead by the function of internet test and printing by total price of single commodity

●Switch of new and old keypad

New and old keypad d can switch in the hardware option of upper computer software 's function setting (0-255: bit0->ESC first , then Print , 1-> no ESC ; Bit1:0->old keypad , 1->new keypad ; Bit2:0->long screen ,1->square screen .)

Table: Hardware options parameter settings

Hardware options	Parameter	settings
long screen、old keypad、ESC first	0000 0000	0
long screen、old keypad、no ESC	0000 0001	1
long screen、new keypad、ESC first	0000 0010	2
long screen、new keypad、no ESC	0000 0011	3
square screen、old keypad、ESC first	0000 0100	4
square screen、old keypad、no ESC	0000 0101	5
square screen、new keypad、ESC first	0000 0110	6
square screen、new keypad、no ESC	0000 0111	7

4.4 Description of label paper

The label which is used at RLS series is: Thermal Seam Marking Label. As shown below:

Height: 60mm, width: (30~60)mm, Max outside diameter: 100mm, Minimum inner diameter: 40mm。

AS shown in the right:



5. Overall Appearance

Long Screen:



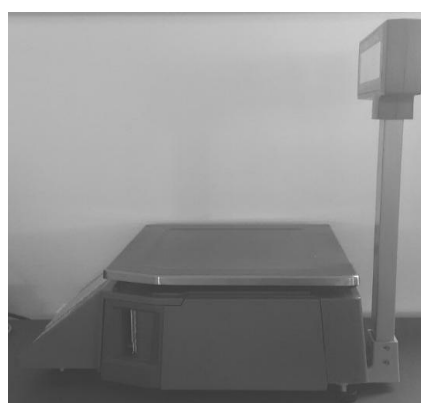
Front



Left



Bottom



Right

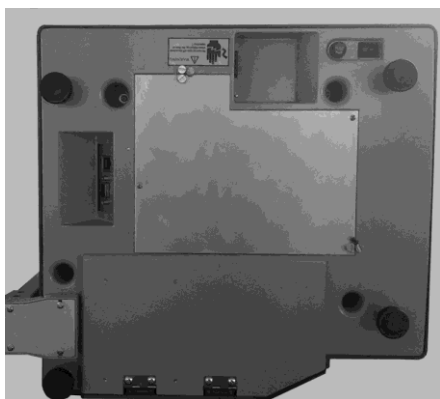
Square Screen:



Front



Left



Bottom

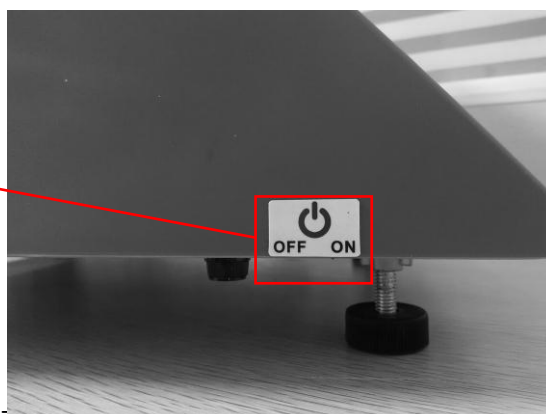
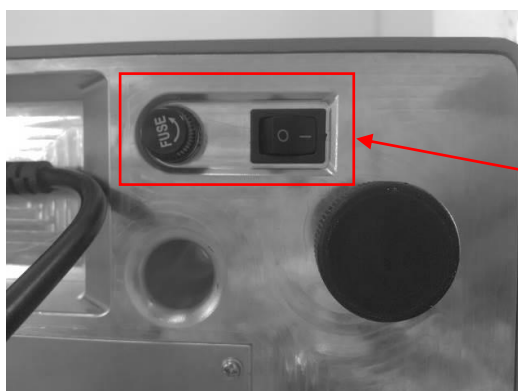


Right

6. Common easy-to-use operations

6.1 Switch on and off

Hard disk switch on/turn on: After connecting power supply, switch on the power button at the bottom of the scale. After the screen shows one by one the information of edition No., IP address, self-test countdown “0 、 1、 2、8”, the scale enter into sale pattern.



Attention: under self-test situation, please do not press any button and make sure nothing is on the scale, otherwise it can't work normally.

Soft disk switch on/off: Please switch on the power button, then press the button **[ON/OFF]** for 2 seconds.

6.2 Weighing and pricing

There are three methods for weighing and pricing. If the PLU information has been downloaded from PC or edited in the scale in advance, take the Method 1 and Method 2. If not, take the Method 3.

1. Under the “automatic printing” situation, once the weight is stable system will print label, if the weight and unit price is not zero showed.
2. When the “AUTO” arrow lights on screen , it means the system is in the state of auto printing .Press the **[AUTO PRN]**can switch the state .(You can set whether to auto print or not when starting in the **[SETTING]** , the operation is according to the 7.2 system setting .
3. If nothing is on the scale tray or pressing the “zero” button even something on the tray and the light “zero point” is on, it means the scale is under zero point condition.
4. The following operations, including peeling, pricing with piece, discount and changing price, are based on automatic printing. If the scale is not under automatic printing condition (automatic printing light is off), you need to press the button **[PRN/ENTER]** for label printing.

Method 1: hotkey operation

Example: sale green onion 2kg. Suppose the hotkey is 1 and the unit price is ¥1.50/kg.

Operation procedure: press the button **[ZERO]** (if the screen already shows zero, the action can be slipped) put 2kg green onion on the scale tray $\Rightarrow$ press the hotkey 1. Now, the relevant weight, unit price and total amount will be shown on the screen and the label will be printed. (PS : In the non-auto printing status , you need to press the key **[PRN/ENTER]**)

- 224 hotkeys in total and is changeable and can be printed by control PC.
- The above operation is suitable for hotkey 1-112; as for hot button 113-224, the operation is pressing the button **[PLU]** + the corresponding hotkey.
- For easy operation, all the PLU can print the latest illustration. The printing function is set by PC.

Method 2: general operation

Example: sale green onion 2kg. The Fresh Commodity Code is 10 and the unit price is ¥1.50/kg

Operation procedure: press the button **[ZERO]** (if the screen already shows zero, the action can be slipped), put 2kg goods on the scale $\Rightarrow$ press the button **[PLU]** $\Rightarrow$ input the LF code 10 $\Rightarrow$ Press the button **[PLU]**. Now, the relevant weight' unit price, total price will be showed on the screen and the label will be printed.(PS : In the non-auto printing status , you need to press the key **[PRN/ENTER]**)

Method 3: suitable for not preset PLU

Operation procedure: press the button **[ZERO]** (if the screen already shows zero, the action can be slipped) press the button **[UNIT]** until the correct pricing unit is be chosen (suppose it is Kg) $\Rightarrow$ input the unit price, e.g.2.0 $\Rightarrow$ Put the goods (1Kg supposed) on the scale tray $\Rightarrow$ Press the button **[PRN/ENTER]**.

6.3 Peeling/Tare operation

The operation is just suitable for the goods need to be packed, e.g. egg, beans etc. There are two methods used for the following situation: 1.package and good separated; 2. Package and goods non-separated.

Method 1: suitable for package and good separated

Example: sale one box of apple. Suppose the apple's unit price is ¥6.0/kg, the hotkey is 05, and the weight is 2.0kg.

Operation procedure: put a container or package box supposed 1.0kg on the scale $\Rightarrow$ press the button **[TARE]** $\Rightarrow$ put on one box of apple $\Rightarrow$ press apple's hotkey 05 $\Rightarrow$ after weighting, take off the products and then press the button **[TARE]** again for elimination

Method 2: suitable for the tare weight known and the package and goods non-separated

Example: sale one box of apple. The unit price is 6.0/kg, tare weight 1.0kg, and the apple and box weighs 2.0kg in total.

Operation procedure: press the button **[ZERO]** (if the screen already shows zero, the action can be slipped) $\Rightarrow$ input the tare weight $\Rightarrow$ Press the button **[TARE]** $\Rightarrow$ put on one box of apple $\Rightarrow$ press the hotkey 05 $\Rightarrow$ after weighting, press the button **[TARE]** again for elimination

6.4 Discount

Discount operation: The discount function can be locked via setting password through PC background server. Password can be changed through background at any time.

Operation: Discount in proportion

Example: Vegetable is priced at \$ 8.0 / kg and 5% off, and vegetable's hotkey is 12.

Procedure: Enter discount 95% on the keypad $\Rightarrow$ press button **[DISCOUNT]** $\Rightarrow$ put the vegetables on scale $\Rightarrow$ enter the hotkey 12. (PS : In the non-auto printing status , you need to press the key **[PRN/ENTER]**)

6.5 Rate changing

6.5.1 Permanent changes in the price

There are two methods to change the rates as follows:

Method 1:

Example: Before changing price, apple's price was \$4.0 / kg. After price change, apple's price is \$3.0 / kg, and apple's hotkey is 05.

Procedure: Enter apple hotkey 05 $\Rightarrow$ press button **[PRICE]** $\Rightarrow$ type new price \$3.0 /kg $\Rightarrow$ press button $\Rightarrow$ **[PRN/ENTER]** $\Rightarrow$ start weighting.

Method 2:

Example: Before changing price, apple's price was \$4.0 / kg. After price change, apple's price is \$3.0 / kg, and fresh code is 15.

Procedure: Press button **[PRICE]** $\Rightarrow$ enter apple code 15 code on the keypad $\Rightarrow$ enter new price \$3.0 / kg press button **[PRN/ENTER]** $\Rightarrow$ start weighing

6.5.2 One-time price change

Method 1: One-time price change to sell bags of jujube (Original price is 7.00/kg)。

Example: Sell 10 bags of jujube, One-time change original price to 10.00/kg, hotkey 32, after sales, return to original price 7.00/kg.

Steps: Input 10 in keypad $\Rightarrow$ press **[UNIT/X]** key $\Rightarrow$ Input 30 in keypad $\Rightarrow$ Press **[NET CHECK /SET AMT]** key $\Rightarrow$ press hotkey 32 in keyboard (Note: if not in auto print mode, should press **[PRN/ENTER]**key)。

Method 2:

Example 1: Before price change, cabbage price is 1.40/kg, One-time change to 2.00/kg。after change, price return to 1.40/kg, LFcode is 13。

Steps: put 2.000kg cabbage on scale $\Rightarrow$ long press **[PRICE]**key, till one “DI” sound $\Rightarrow$ input LFcode 13 in keypad $\Rightarrow$ input new price 2.00/kg $\Rightarrow$ press **[PRN/ENTER]**key (after that, can press again hotkey 13, see the price return to 1.40/kg)

Example 2: Sell 0 price PLU with LFcode

The original price of bag jujube is 0, one-time change to 10.00/kg, after sales, price return to 0.

Steps: put 2.000kg on scale $\Rightarrow$ input LFcode 32 in keypad $\Rightarrow$ press **[PLU]**key $\Rightarrow$ input price 10.00 元 /kg in keypad $\Rightarrow$ press **[PRN/ENTER]**key

Method 3: temporary operation on weighing PLU

Example: Cabbage's original price is 1.00/kg, but change to 2.00/kg in night, hotkey is 13, after sales, price return to 1.00/kg, the weight of one cabbage is 2.000kg.

Steps: put one cabbage on scale $\Rightarrow$ input 2.00/kg in keypad $\Rightarrow$ press **[NET CHECK /SET AMT]**key $\Rightarrow$ press hotkey 13 $\Rightarrow$ press **[PRN/ENTER]**key.

6.6 Select weight unit

Procedure: Press button **[UNIT/X]** more than one second (There will be a setting warning tone) and then press again $\Rightarrow$ select weight unit. For example, choose g as the unit, two seconds without operation, confirmed by default, and then Scale display screen will be displayed on g as a unit of weight.

6.7 Accounting by number or quantity

Method 1 for single commodity

Type the Unit price of single commodity in the numeric keypad, $\Rightarrow$ Press **[NET CHECK /SET AMT]** $\Rightarrow$ Press the corresponding commodity hot-key in the hot-keys board (PS: In the non-auto printing status, you need to press the key **[PRN/ENTER]**)

Method 2 for single commodity

Type the Unit price of single commodity in the numeric keypad, $\Rightarrow$ Press **[NET CHECK /SET AMT]** $\Rightarrow$ Press **[PLU]** $\Rightarrow$ type the corresponding fresh code in the numeric keypad (PS: In the non-auto printing status, you need to press the key **[PRN/ENTER]**)

Method 1 for more than one commodity

Type the Unit price of single commodity in the numeric keypad, $\Rightarrow$ Press **[NET CHECK /SET AMT]** $\Rightarrow$ type the quantity of commodity in the numeric keypad $\Rightarrow$ Press **[UNIT/X]** $\Rightarrow$ Press the corresponding commodity hot-key in the hot-keys board, (PS: In the non-auto printing status, you need to press the key **[PRN/ENTER]**)

Method 2 for more than one commodity

Type the Unit price of single commodity in the numeric keypad, $\Rightarrow$ Press **[NET CHECK /SET AMT]** $\Rightarrow$ Press **[UNIT/X]** $\Rightarrow$ type the corresponding commodity code in the numeric keypad (PS: In the non-auto printing status, you need to press the key **[PRN/ENTER]**)

6.8 Price label printing

This function can be applied to copy the labels with same item and weight.

Procedure: print one label with unit price $\Rightarrow$ press button **[COPY]** and enter the copies number 1 to 9 to print 1 to 9 copies. If a large number copies is need, you can enter number 0, which correspond to 1000 copies $\Rightarrow$ press button **[C]** to stop printing when the copies is enough.

6.9 Quick copy

Unlimited print is a fast continuous printing function which prints same and un-peeling labels.

Procedure: Put the goods on scale $\Rightarrow$ choose the item or enter the price, after printing finished $\Rightarrow$ press button **[COPY]** and then press button **[00]** to start the continuous printing. (If need to stop printing, press button **[C]**.)

6.10 Automatic fast packaging

This function can be applied to high-volume label of similar but different weight of the product.

Procedure: Activate the **[AUTO PRN]** and **[PRI LOCK]** function $\Rightarrow$ choose a single product or enter a unit price $\Rightarrow$ put the goods on the scale tray one by one, and the scale will start to print label automatically.

If when to operate fast, recommend to proceed as following procedure.

Procedure: Put item 1 on the scale tray, it will print label automatically $\Rightarrow$ put item 2 on and take off item 1 take the label and stick it on item 1, next label will be printed automatically $\Rightarrow$ put item 3 on and take off item 2 $\Rightarrow$ take the label and stick it on item 2, next label will be printed automatically $\Rightarrow$ repeat the procedure, it can save time.

6.11 Operation button in common use

- Auto Print: Switch to automatic print, otherwise need to press button **[PRN / ENTER]** to print
- Charge unit: Press button **[UNIT]** 2 seconds to switch charge unit \$/Kg or \$/g.
- Price Locking: Press button **[PRI LOCK]** to continuously print label of same product (product name will not disappear). Press again to unlock.
- Price change: Press any hotkey $\Rightarrow$ press button **[PRICE]** and input price.
- Discount: Enter the discount rate (e.g.: enter 80 for 80% discount) and press button **[DISCOUNT]** to calculate Enter hotkey of the goods $\Rightarrow$ put good on the scale and start printing
- Fresh Commodity code printing: put the goods on scale $\Rightarrow$ press button **[PLU]** and enter the Fresh Code 100 xxx(xxx means 1~174, can be increased)
- Zero: press button **[ZERO]** to make zero of all the data.
- Peeling/Tare: weight the tare and press button **[TARE]** $\Rightarrow$ put goods on the scale $\Rightarrow$ enter corresponding hotkey $\Rightarrow$ after printing, press button **[TARE]** to clear the tare weight.
- Clear: this button commonly used to clear the unit price and abnormal screen or an error message to keep the normal running of the system.
- Setting: press button **[SETTING]** 2 seconds to enter Setting interface, where you can reset basic setting and parameters of the printer and scale.

Note: when wrong operation cause system crash, need to restart the scale.

7. Wireless Label Scale Setting Instruction

7.1 Network connection mode



7.2 Router set up

1. Set the SSID name of the router (No more than 15 characters)
2. set the type of router's authentication, encryption algorithm, password,
 - Encryption type set as : WPA2-PSK
 - Encryption algorithm set as: AES
 - Password: no more than 15 characters

7.3 Label Scale Setting

1. Long press the set button, enter the settings menu
2. Select IP settings, set the IP address of the label scale (And need to be same network of routers which is the same IP address)
3. Select "SET WiFi" menu
4. Enter the SSID WIFI set menu: input router's SSID Name
5. Enter the "WiFi password mode" select menu: select the WPA2-PSK/AES option (need to be same as router encryption type)
6. Enter the "WiFi password" setting menu, enter the router password (the router password)
7. After finish settings and restart the label scale, computer and label scale can be wireless communications

7.4 Computer RLS1000 software settings

Set label scale corresponding to the IP address, after setting, Use software's "test network" icon for network testing, then connectivity can be normal communication, if it's failure, please check and make sure PC's IP address is in the same segment

8. Function setting

- This function can be locked with a password. Password can be set and reset through PC.

8.1 Input settings of single item

Step One: press button [PLU] until screen shows "single item edit" to enter the edit mode.

Step Two: Type 6 digits of fresh commodity code and press button [PRN/ENTER] to confirm. When the screen shows "Product Name", enter price. (Meanwhile, can press [↑][↓] button to select the needed item, or enter corresponding letter shown in below sheet, if enter "N" means to edit item name.)

- **N** single item name: You can use the keyboard to enter the name of a single item, up to 36 digits.
- **L** single item Fresh Commodity code: Enter fresh commodity code within 6-digit.
- **C** single item Model: Enter Item No. within 10 digits.
- **P** Price: Enter the unit price of goods no more than 7 digits.
- **U** charge unit: Use button [↑][↓] to select g or Kg.
- **F** Expiration: enter expiration date between 0~365.
- **T** Tare: Input tare weight within maximum.
- **B** Bar Code Type: Select the barcode type from 0-99.
- **D** department code: Enter the department code within 0-99.
- **W** Package weight: Enter PLU packaging weight.
- **Y** Package Type: Select packaging type with the left and right buttons (0: Normal, 1: fixed weight, 2: fixed price, 3: fixed weight & price).
- **E**: Package Tolerance: (0-20%).
- **M** Information 1: input selected information code (0-197).
- **G** Information 2: input selected information code (0-197).
- **I** single item's label setting: 8 bits, 0: A0,1: A1,2: B0, 3: B1,4: C0,5: C1,6: D0,7: D1.
- **R** discount setting: (- 10 ~ -125) (- 10 ~ -1) corresponding to discount of type 10-1. (1 ~ 125) corresponding to a percentage discount.
- **V** Chinese price unit setting (PCS TYPE).
- **S** Save for changes.

- **H** Hotkey setting: Up to three numbers, while preserving the changes of PLU.

8.2 System set up

- That operation can be lock by password. The password is set in PC and can be change at anytime.

Step 1: press **[set]** key and hold on 3s to enter system setting status.

Step 2: press **[↑]/[↓]** or direct number key accordingly to select item.

Step 3: press **[PRN/ENTER]** key to confirm.

Special note: In menu, 0=not, 1=yes, if others, will note.

Set menu items as below:

- **@** IP address: set IP address of label scale.
- **D** print density set: press **[↑]/[↓]** to select 0~7, from low to high, total 8 levels.
- **V** print speed set: press **[↑]/[↓]** to select 0~7, from low to high, total 8 levels.
- **S** select paper type: press **[↑]/[↓]** to select 0~3, total 4 types: 0:label, 1:label, no recycle, 3:bottomless label.
- **A** paper position fine-tuning: press **[↑]/[↓]** to select -8~+8, total 17 offset, adjust to most suitable starting position.
- **T** date adjusting; set current date and time.
- **N** date format: set date format 0: DDMMYY, 1: MMDDYY, 2: YYMMDD.
- **[↑]/[↓]** whether to print weight unit: select to print weight unit or not.
- **[↑]/[↓]** whether to print price unit: select to print price unit or not.
- **J** decimal digits in unit price: set decimal digits in unit price.
- **[↑]/[↓]** set default barcode type: set barcode type(0~99, the details refer to appendix two in software user manual).
- **X** total price precision: set total price precision(1: N.N0, 2: N.NN, 3: N.N).
- **[↑]/[↓]** total price carry set: set carry value(for example round, that is 5).
- **W** print time: set print time or not(time format is hour and minute).
- **Y** year digits: set year format(0: YY, 1: YYYY).
- **G** use after discount price or not: set barcode to print after discount price or not.
- **[↑]/[↓]** display items in weight field: set 0:weight, 1; quantity.
- **Q** print delete line mark: set 0: print, 1: not.
- **[↑]/[↓]** select barcode width: 0: wide, 1: narrow.
- **E** The supplementary of default information 1 :0 means not default information1.
- **F** The supplementary of default information 2 :0 means not default information2.
- **[↑]/[↓]** discount goods belong to special department: setting if discount goods belong to special department or not.
- **[↑]/[↓]** IP setting on the host machine: using this scale as the host machine to set IP address, to connect other scales.
- **P** statistics function mode: Choosing “yes” or “not ” to open statistics function mode for sales goods
- **[↑]/[↓]** running account overflowing alarm:Alarming or not when the running account overflow.
- **[↑]/[↓]** summation printing: print summation label, total amount/total quantity/quantity of total label(clicking twice (set)to set)
- **[↑]/[↓]** sum all quantity of single goods' label:print all information of all sales goods((clicking twice (set)to set))
- **[↑]/[↓]** clear all the summation data:clean up all the summation data((clicking twice (set)to set))

- [↑]/[↓] fine tuning of the exit paper position: setting the quantity of exit paper: 0-36
- [↑]/[↓] printing self test page or not: printing self test page or not
- [↑]/[↓] auto printing: setting default auto printing when it open or not.

8.3 Lock

SETTING, PLU, DISCOUNT, PRICE, and TARE functions can be locked via pass code. Passcode of each function is independent, which can be set via pc software then download to each scale, and it can be change at any time. more details please check the security item in the function setting II which is in the software operating instructions as the attached CD.

- **Open (before shutdown by software, Function after opening is always valid)**

Open $\Rightarrow$ choose the function you would like to open, eg:

Open “SETTING” function

Click [SETTING] key for 2 seconds to come into the system setting status, system remind that enter pass code, it means that entering the pass code which is set via pc software

Open “PLU” function

Click [PLU] key for 2 seconds to come into the PLU editing status, system remind that enter pass code, it means that entering the pass code which is set via pc software

Open “DISCOUNT” function

Click [DISCOUNT] key for 2 seconds to come into the discount status, system remind that enter pass code, it means that entering the pass code which is set via pc software

Open “PRICE” function

Click [PRICE] key for 2 seconds to come into the price setting status, system remind that enter pass code, it means that entering the pass code which is set via pc software

Open “TARE” function

Click [TARE] key for 2 seconds to come into the tare setting status, system remind that enter pass code, it means that entering the pass code which is set via pc software

- **Restored lock**

Click [ON/OFF] key for 2 seconds to turn off the scale $\Rightarrow$ click [ON/OFF] to turn on the scale.

9. Troubleshooting

9.1 Scales crash

- Boot up without any response

Reasons:

- a. bad contact between the power plug and socket.
- b. the power cord is disconnected
- c. Filtering group Fuse is disconnected.
- d. Transformer is broken.
- e. Motherboard is broken.

Solutions: use multimeter to check them one by one, use method of exclusion to find the solution.

- Boot up without any sound, No display, Backlit.

Reasons: the spark generated by the power plug impact the program.

Solutions: Replace the Motherboard, reset the number, and download all the files.

- Boot up without any sound, display “Update”

Reasons:

- a. Program downloads error
- b. misoperation during the downloading of the program (such as halfway power outage)

Solutions:

- a. downloads the right program again; the scale with Ethernet interface can update the program by “update” option, the scale without Ethernet interface have to update the program after revise the scale number to “78343338” and revise the baud rate to 9600.
- b. ditto

9.2 Print related issues

- Print a blank label, paper orientation is normal.

Reasons:

Setting label type error. Usually the label type computer download is D0, so label type of label scale printing should be set D0. Or the printed label is blank.

Solutions:

- a. adjust the settings in following key order (on the scale)
[SETTING] ⇨ Enter the system setting ⇨ Press hotkey[L] ⇨ Enter the select label type (0: D0; 1: D1) ⇨ Press [PRN/Enter]
- b. It’s also available to adjust software on computer. Open label scale RLS1000, input serial number of the scale. Change label type to D0 in set function, then carry out function set command.

- Print half or a half label, paper orientation is abnormal.

Reasons:

- a. Set paper type detection error.
- b. Printer rear photoelectric has slanting direction or is dust.
- c. Photovoltaic panels is bad.
- d. Photoelectric pair of printer rear photoelectric is bad.

Solutions:

- a. adjust the settings in following key order on the scale
[SETTING] ⇨ Enter the system setting ⇨ Press hotkey[S] ⇨ Enter the select label type (0: label; 1: receipt 2: label, without recycle paper roll) ⇨ Press [PRN/ENTER]
It’s also available to adjust software on computer. Open label scale RLS1000, set paper type to “Label” in set function, the pass the setting to error scale.
- b. Check whether printer rear photoelectric has slanting direction or is dust.
- c. If the problem still can’t be solved, consider changing photoelectric pair. It is better to handle this step by professional person of our company.

- Fuzzy print and it is not black enough

Reasons:

- a. printer head has not been fasten well.
- b. Thermal head is dirty
- c. Print density is too low.

Solutions:

- a. Re-fasten the printer head well.

- b. Wipe the thermal head with a soft cloth glued alcohol gently
- c. Increase print density

- Print a label with half clear and half fuzzy or even blank.

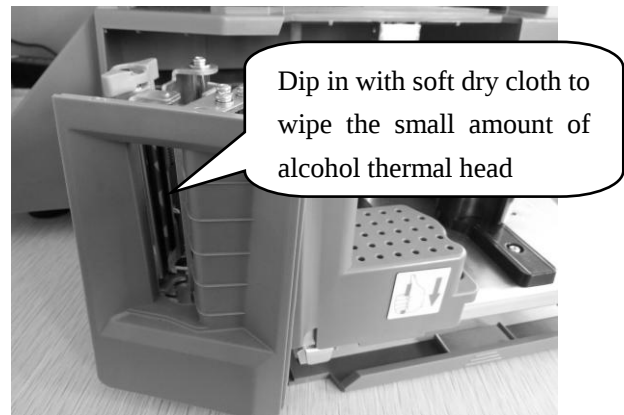
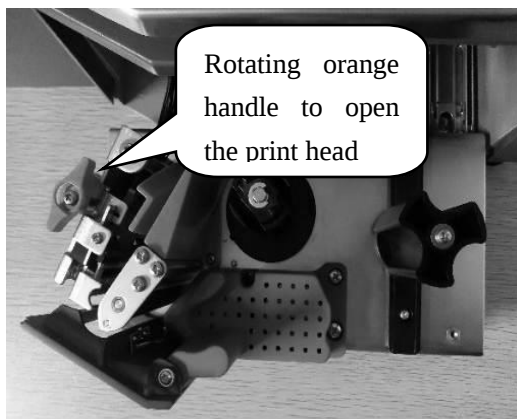
Reasons:

- a. printer head has not been fasten well.
- b. Thermal head is dirty
- c. The print head deformation

Solutions:

- a. Re-fasten the printer head well.
- b. Wipe the thermal head with a soft cloth glued alcohol gently
- c. If the problem still can't be solved by above method, then cause of the error is the print head deformation, need to change printer. Bad printer should be handled by professional person of our company.

Wash the thermal head pictures show:



- Weird character show on label or character can't be printed out(including Chinese and English)

Reasons:

- a. Haven't download fonts or single-byte character.
- b. Font conflict

Solutions:

- a. Re-download fonts (including single-byte and double-byte character.)
- b. Re-select single-byte and double-byte fonts by files/option/label scale fonts, then download Chinese and English fonts.

9.3 The key issues

- Keys have been ringing, display is normal

Reasons:

- a. Line piece of key cause short circuit
- b. Sharp object resist the key.

Solutions:

- a. Change line piece of the key
- b. Move the sharp object.

- Some keys do not ring

Reasons:

- a. Ribbon cable of the key hasn't been inserted properly.
- b. The conductive rubber of the key circuit board hasn't been assembled properly.
- c. The key is damaged.

Solutions:

- a. Check out key ribbon cable, re-insert properly.
- b. Take out and re-assemble the key conductive rubber and the other positioning rubber
- c. If the problem still can't be solved by above method, then maybe the key is damaged, change it.

9.4 Weigh problem

Weigh inaccurately

Reasons:

- a. The rubber mat supporting scale pan is touching the top cover.
- b. Damp, module aging, or regional differences to make the weigh inaccurately.
- c. The load cell damaged due to the overload.
- d. Not adjust the Gravitational acceleration.

Solutions:

- a. Check the top cover is installed well, or not. If yes, reinstall load cell's support frame.
- b. Leaning the Zero/Full weigh again. Replace the mainboard, AD board, even load cell if the problem could not be solved.
- c. Replace the load cell and support frame.
- d. Adjust the Gravitational acceleration

PS: Generally, the scale should be returned back to our company due to the problems of AD board and load cell.

Zero point instability

Reasons:

- a. Environmental impact, such as vibration, wind or strong magnetic interference....
- b. Weighing electric circuit gets damp.
- c. The wind resistance function has not opened.
- d. The leveling mat is not leveling

Solutions:

- a. Exclude the interference factors
- b. Replace the mainboard
- c. Open the wind resistance function(set it in function set)
- d. Adjust the leveling mat to be leveling.
- e. If still not, return back the scale to our company

Unable to weigh

Reasons: Bad mainboard, bad AD board or bad load cell.

Solutions:

- a. Replace the mainboard
- b. Check the AD board is OK, or not, return back to our company if this problem could not be solved

9.5 Communication problem

Unable to communicate

Reasons:

- a. Communication ports are set up incorrectly
- b. The incorrect serial number of scale, or the incorrect IP address.
- c. The incorrect connection of interface, or problem on Ethernet cable.
- d. The error on power board or mainboard.

Solutions:

- a. Confirm the available communication ports
- b. Confirm the same serial number in scale and RLS1000, and same IP address in scale and RLS1000.
- c. Please replace mainboard or power board to confirm the error, if there are not the problems mentioned above.

9.6 Display problem

● No display or display but no characters

Reasons:

- a. Display pole is not installed well, result in poor contact with control board.
- b. Water in display pole base, cause shorting and corrosion on three-way plate.
- c. Display damage

Solutions:

- a. Install display pole, lock fixed bolt.
- b. Change three-way plate or display pole
- c. Change display pole

9.7 Error code

- Er-01: Total Price Over
- Er-02: Label Height Over 90mm
- Er-03: None Label to Be Copy
- Er-04: NO Find Label Gap
- Er-05: Weight Error
- Er-06: The PLU NO Sale Date
- Er-07: Price Can Not Be Zero
- Er-08: Please Exit Tare Mode
- Er-09: Salesman Err
- Er-10: Please Close Orange Handle
- Er-11: Wrong LFcode or PLU Not Exist
- Er-12: Weight Not Change
- Er-13: NO Paper
- Er-14: -----(Weight Over)
- Er-15: Take Out Label
- Er-16: PLU is not Defined on Hotkey

9.8 Other problems

● Print paper difficultly, paper roll fixed.

Reasons: Maybe the mismatch between paper roll and shaft, or the wrong installation of shaft.

Solutions: It is better to return this printer to factory for reinstallation.

- **“KaKa” sound when printing, don’t feed paper(note: if appear this problem, please don't press "print" button, otherwise may burn out main board)**

Reasons:

- a. paper installation is not correct, cause paper jam.
- b. paper receiving shaft jammed.
- c. there is stuff between small gear and big gear.

Solutions:

- a. reinstall paper correctly
- b. reinstall paper receiving shaft
- c. check gear, remove stuff.

- **Press PLU hotkey sometimes don't print, but the keyboard response**

Reasons:

- a. the weight in scale instable
- b. don’t download PLU data to scale
- c. there is still paper in printer, don’t take away in time.

Solutions:

- a. Put scale on flat ground, and adjust the level Angle, keep it in a horizontal position state.
- b. download PLU data to scale from PC
- c. take away label paper in time.

- ☺ The failures listed above involving the handle of mainboard and sensors, the replacement of the print head, printer, photocell, etc hardwares should return to the company and handled by the professional staffs in principle.
- ☺ Fault can’t be solved as above solutions, should return to the company and handled by professional staffs.
- ☺ There is two communication ports in label printing scale, they are RS232 and TCP/IP(Ethernet), RS-232 type is optional.

10. The acceleration of gravity revised table of cities in China

No.	Area	Acceleration of gravity A/D revised	No.	Area	Acceleration of gravity A/D revised
1	Mohe	72	38	Bengbu	21
2	Hailar	60	39	Nanjing	20
3	Tsitsihar	60	40	Pukou	20
4	Kiamusze	59	41	Tongguan	20
5	Harbin	55	42	Shanghai	19
6	Hohhot	55	43	Hefei	19
7	Mutankiang	51	44	Xi'an	18
8	Changchun	50	45	Wuhu	18
9	Jilin	50	46	Wuhan	16
10	Shenyang	46	47	Hangzhou	16
11	Fuxin	45	48	Anqing	16
12	Jinzhou	44	49	Hankou	16
13	Turpan	43	50	Baoji	15
14	Shanhaiguan	41	51	Yichang	15
15	Dandong	41	52	Lanzhou	13
16	Beijing	40	53	Jiujiang	13
17	Chengde	40	54	Yueyang	13
18	Urumchi	40	55	Nanchang	11
19	Tianjin	39	56	Wenzhou	10
20	Dalian	39	57	Chongqing	9
21	Kumul	37	58	Chengdu	9
22	Baoding	36	59	Changsha	9
23	Zhangjiakou	35	60	Zhuzhou	9
24	Shijiazhuang	34	61	Xining	8
25	Dezhou	34	62	Mianyang	8
26	Yinchuan	34	63	Hengyang	7
27	Wulanliha	33	64	Fuzhou	2
28	Jinan	32	65	Shenzhen	0
29	Qingdao	31	66	Liuzhou	0
30	Baotou	31	67	Guangzhou	-1
31	Datong	30	68	Huiyang	-1
32	Taiyuan	26	69	Nanning	-2
33	Zhengzhou	25	70	Guiyang	-5
34	K7aifeng	25	71	Zhanjiang	-6
35	Xuzhou	25	72	Haikou	-7
36	Luoyang	23	73	Kunming	-15
37	Yan'an	21	74	Lhasa	-26

● The above is just acceleration of gravity of Chinese major city, make interpolation conversion according to latitude in other cities.

It should be handled by person in our company or dealers if want to adjust acceleration of gravity.