

Electronic Cash Register User Manual

2014.3 V2.50A

Preface

Thank you for use the product. Before you start to use this product, please be sure you have read the content in the **Preface** and follow these guidelines.

1.1 Notice

- Make sure the electric plugs and wires are all properly connected, and use the 3-cell electric wire only. If an extension-board is used, the outlet of the extension-board is also 3-cell. Make sure the earth wire is properly connected to the earth in order to prevent the leakage of electricity.
- Don't touch the electric plug with wet hand, in case of electric shock.
- Don't get the product rained or washed by water; If there is some water on the product by inadvertence, please wipe it clean with a dry cloth; If the ECR doesn't work normally, please send the ECR to our distributor as soon as possible. We shall do our best to service you.
- Don't put the device in the places which are ultimately cold, hot or wet. These working conditions may make the product not work normally or damage the product.
- Don't use organic chemistry solutions to wipe the surface and the panel of the product.
- Don't try to take the device apart and repair the device by non-professional staff.
- Cut the connection between the device and AC electricity when taking the device apart under the guidance of professional staff from our company.
- Don't try to disassembly the switch power inside of the ECR. Because it takes a long time to discharge the high voltage capacitance, and it's very dangerous to disassembly the switch power when the high voltage capacitance is not fully discharged.
- **Strongly recommend users to use thermal paper sold by our company. The device can have a longer life if working with thermal paper sold by our company because we have done a lot of experiments and optimizations on the our thermal paper. On contrary, the life span of the printer may get shortened if the printer works with the thermal paper which is likely to deposit or leave carbon deposits.**
- **Thermal header is a precise instrument. Don't touch it with fingers or sharp goods. Always use the accessory cleaning tools to keep the header clean.**

1.2 Guide to Read

- Please go to page 8 Fast Prog and learn the method to install paper and notices for users.
- Please read page 2 General Functions, Configuration and Using Index carefully first in order to know about the performance of the device.
- Please read page 6 carefully first, and learn frequently used programme operations of the device.
- For ordinary users, please first read page 13, the two chapters Transfer and Lock of PLU (page 13) and Temporary by-count PLU's number are decided by Spec094 (the default is 9999998)

Note 1 Temporary by-weight PLU's number are decided by Spec093 (the default is 9999999)

- Manual Goods Sale (page 13) in the *Sale Operations*, and learn general sale operations of the device.
- For ordinary users, read page 49 *Account Operations*, get to know how to print the report forms and delete the records. And read *Inquiry of Sale Records and Markers of Returns of Goods* in page 18 to learn how to look over the recent sale records.
- For advanced users, read the rest of *Sale Operations*, and learn auto mode and other functions.
- For professional users, such as managers in big supermarket, should continue reading the rest of the instruction.
- **When error warning shows up, check *Reference Table For Errors and Its Instructions* in page 56.**

1.3 Abbreviations and Glossary

- PLU: Price of LookUp. It's a cell which contains the information of goods
- Weight PLU, Count PLU: By-weight PLU, By-Count PLU.
- Dept., Class: Dept. is short for department, is the largest category in sales statistics. Class is the second largest category in sales statistics.
- U.Price, T.Price: Unit Price and Total Price.
- Single T.Price, Sum T.Price: Single T. Price means the price of certain goods, while Sum T. Price means the price of total trade.
- Prog, F-Prog: Name of keys, Short for programme and Fast Programme.
- T-Sale: Temporarily Sale. Trade goods is not an exist PLU. Sell them by input a manual price. And the scale will think the goods as PLU 1 (Weight), or 2 (Count).
- Spec: Specification. It is made up of many number parameters, which determines the operation flow and working state.
- Amount: The quantity of the goods, weight or count. It means weight (kg, lb) for weight PLU and count (pcs) for count PLU

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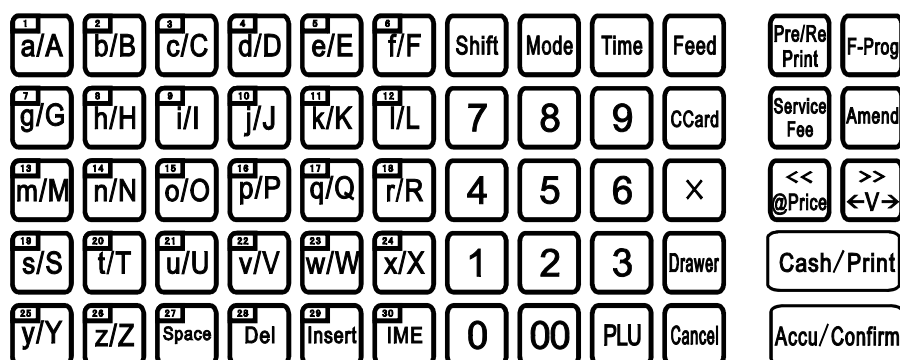
1 Components of Electronic Cash Register

1.1 Check Accessories

- One Electronic Cash Register;
- One copy *User Manual* (this book);
- One CD for PC software *Data Management Software*
- One power plug;

1.2 Keyboard

1.2.1 The Original Overlay of the Keyboard



Picture 1-1 Sketch Map of Keyboard Function for ECR

The graph above shows the original definitions. Some buttons on the left top area are marked with numbers, which are serial number for the shortcut keys. In this text, 【SCxx】 is used to represent shortcut keys. For example, 【SC1】 represents the first key on the left top marked with number 1. 【SCxx】 on the left side are PLU preset shortcut keys and can be set to represent one certain key if user requests. When editing the text, 【SCxx】 are function keys and character keys for the input of letters. Please refer to chapter 0.0 . 【SCxx】 on the right side are preset shortcut keys for additional functions . The presetting is shown in the graph. And it's not available for user to change the setting of function keys now.

1.2.2 Instructions for Keys

When you press right keys, the ECR would beep shortly to show the operation is right.

When you press wrong keys, the device will beep in 1 long sound and 2 short sounds. The composite beeps mean the failure in operation process or errors in pressing keys. If operation process fails, there will be Ex.xx displayed on the screen (e.g., E1.01 means programme data is invalid.).

It may take 4 seconds to press one key in the operation which needs to **Long Press** the key without releasing it. During the period you will hear 2 beeps. The first beep sounds as soon as you press the key while the other one sounds 4 seconds after pressing the key.

In some 【F-Prog】+【Other key】 operations, users should first press 【F-Prog】 without releasing and press the 【Other key】 in order to complete the operation.

In the following instruction: 【Key1】【Key2】 means the operation that press 【Key 1】 first and release it, then press 【Key 2】 and release it. 【Key1】 + 【Key2】 means the operation that press 【Key1】 and 【Key2】

at the same time. When users do it , press **【Key1】** first, and press **【Key2】** without releasing **【Key1】** .

1.2.3 Instruments for Keys in Function Area

Picture 1-1 shows the default setting of keys in the function area. According to customer's requests, default setting may be different. And the specific setting will be on the overlay:

- **【Mode】** : Swith operation mode at Sale, Prog and Account.
- **【Time】** : Display current time and return to the previous interface when you press it again.
- **【Shift】** : Shife key used for extending PLU shortcut key, and switching case sensitivity in text input interface. When current input number is decimal (tare, weight, U.Price, T.Price) , long press **【Shift】** or press **【F-Prog】** + **【Shift】** would change the position of decimal point.
- **【Pre/Re Print】** : Can print out the cargo list already accumulated before settle accounts. Re-print: Repeat last print in current buffer (Pre/Re Print data would not be stored in deal records as sale record.). This function can be forbidden in Spec.
- **【Feed】** : Roll the gap thermal paper and plain thermal paper. Unprinted buffer data will be cleared in the process of feed.
- **【-@】【@Price】** :: Discount to a fixed price. $P_{Dis} = Input$. Input is also decimal. You can also use this key to save the discounted price to PLU directly, please refer to Spec083
- **【Drawer】** : Open drawer besides normal operations.
- **【CCard】** : Obligate function
- **【F-Prog】** : Change some setting or values of PLU fastly in sale mode. It is always used for combination of keys, which is similar as 'Alt' 'Ctrl' in PC keyboard. Please refer to process instructions to understand the use of combination keys.
- **【×】** : Input count amount in count sale. Or do temporary count goods sale according to input U.Price.
- **【Service Fee】**: Service fee includes total service fee and item service fee. Item service fee is forbidden as factory default, open it at Spec300 if user needs it.
- **【←V→】** : Used to swith different sale buffer (Table Number), or change serviceman information.
- **【Amend】** : Amend deal data in sale interface and store amended data in programme interface.
- **【←】【→】** : Switch among neighbouring steps and numbers in programme and account interfaces.
- **【V1】 ~ 【V4】** : Activate corresponding sale buffers.
- **【0】 ~ 【9】 , 【00】** : Input corresponding numbers.
- **【PLU】** : Transfer PLU datas using input numbers as serial numbers.
- **【Cash/Print】** : Check out in cash; calculate changes and print labels or receipts according to setting.
- **【Cancel】** : Clear data, cancel operations or go back to previous step.
- **【Accu/Confirm】** : Save accumulative deal data into activated sale buffer and other confirmation operations.

1.2.4 Character Input Instructions

The key of function section remains the same when system enters letters input interface, while **【SC1】** ~ **【SC63】** are used to input letters. In input process, definitions of keyboard are shown below:

- **【Amend】** : Confirm text input. Save and exit.

- **【Cancel】** : Cancel edited data and quit without saving.
- **【Confirm】** : Confirm the input in special IME (not used in pure English version).
- **【End】** : Input end character, and all characters after appointed position are deleted.
- **【Delete】** : Delete the character at the position where cursor is.
- **【Insert】**: Switch cover mode with insert mode. Cover mode is activated when cursor is constant on while insert mode is activated when cursor is glittering.
- **【IME】**: Input method editor. Switch the input languages: En-1 (in small letters), En-2 (in big letters), Chs (chinese code), Code (machine code).
- **【Shift】** : Switch En-1, En-2 in temporary state.
- **【←】【→】** : Move current editing position backwards or forwards.
- **【0】 ~ 【9】** and **【SC1】 ~ 【SC59】** : Input characters or codes.

Switch 4 kinds of input languages by pressing switch keys. Input mode of each kind of input language is shown below:

- **En-1 small letter**: Input numbers or ASCII characters. For the keys with ‘/’, input character is the one on the left of ‘/’. Pressing **【Shift】**, next input character and only this one is under the rule of En-2.
- **En-2 capital letter**: Input numbers or ASCII characters. For the keys with ‘/’, input character is the one on the right of ‘/’. Pressing **【Shift】**, next input character and only this one is under the rule of En-1.
- **UTF8 (U version IME, for UTF8 font scale use only)**: UTF-8 input method, input Unicode to get the characters, input different kinds of non-English language characters, please check code from UTF8 Test Editor Manual, after input Unicode, press **【Confirm】** to finish the input
- **PY Chinese Pinyin Mode**(E version IME, font scale use only): **Input pinyin, and select chinese character by 【←】【→】**, Press **【Confirm】** to input a Chinese character. In pinyin mode, Press **【Space】** to select SBC case symbol, Press **【Space】** twice to select English symbol.
- **Chs Chinese ISN mode**(E version IME, font scale use only): Input ISN code to select a Chinese character or SBC case symbol.
- **Code**: Input machine code mode. Users can input ASCII, symbols in special IMEs. The system could automatically distinguish the input content as ASCII, symbols in special IMEs. Machine codes of each field can be found in following table.

Table 1-1 ASCII Code Table

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	Non-print character															
1																
2		!	“	#	\$	%	&	‘	()	*	+	,	-	.	/

3	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
6	`	a	b	c	d	E	f	g	h	i	J	k	l	m	n	o
7	p	q	r	s	t	U	v	w	x	y	Z	{	|	}	~	
8	Not used															
9																

1.3 Display Panel

1.3.1 Instruction of Display Panel

Front display is 128×64 的 dot matrix display, with 4 lines display. Back display is 8 digi display, with 『SUM』 , 『CHG』 sign.

1.4 Specifications

- Power supply: AC200V~240V, 47~53Hz
- Operation temperature: 0℃~40℃
- Conservation temperature: -20℃~70℃
- Operation humidity: 15%~85%RH

2 General Functions, Configuration and Using Index

2.1 General functions

- The printer can store 5000 PLUs (could enlarge into 10000 PLUs)
- The printer provides many kinds of price input and discount.
- The print provides reports print for different time periods and classifications
- Support network, use RS232 and U disc as tool of data transfer, all data can set on the PC, then use these interface to upload and download.
- Save sales details, can upload to PC through above interface

2.2 Setting of Print Format

- ECR preset support 55mm width plain paper, default using receipt printing format
- Print formats include label print and receipt print. If user needs custom print format, please use PC software to change or contact with appointed after-service center.
- Don't print bills while saling: amend Spec003 and Spec008 to 0. If some specific deals need to print bills, please press **【Pre/Re Print】**.
- To print a few copies of one bill, put the amount into Spec003 and Spec008.
- To print two different kinds of bills: set the type of bill 1 in Spec000~Spec009, and bill 2 in Spec010~Spec019. Strongly suggest users contact with appointed after-service center
- Set grey level of plain thermal paper in Spec023.
- Set plain thermal paper in Spec 025, the position for cut-off paper suggest Spec025 not less than 10.
- You can set different kinds of print formats and barcode types for each PLU. You can check the details in PLU parameters for print formats and barcode types. Set the value of these parameters to 0 if you choose the system type.
- The procedures to confirm print format: take bill 1 as an example. If two or more goods are sold, print sum bill and use Spec005 as print format. If only one good is sold, print the item bill. If sale PLU has been set for a specific print format (not 0), system would use the print format. If no specific print format has been set to sale PLU (The setting number is 0.), the print format would be Spec000.

2.3 Barcode printing and scanning

- Can scan inner code and external code, details in page 19, the specification of Bar code printing and scanning
- Factory default scans inner barcode with 5-digits total price and 6-digits total price. Please select the barcode compatible with the bar code printing scale.
- **If users need special bar code format, please use PC suite or contact with after-service center.**

2.4 Sale Functions

- Users could operate sales with 66 customers (desk number, some version is 100 customers) at the same

time. Please refer to the Example 4-7 in page 15 for operations.

- Rounding methods could be divided into rounding method for single and rounding method for total. The settings of rounding methods are shown in Spec100 and Spec101.
- Suggest that set the value of Spec100 to 1 if users don't want the unit "cent" to be displayed in sales.
- Suggest that set the values of Spec100 to 0 and Spec101 to 1 if users want the unit "cent" to be in sale while unit "cent" is not displayed in grand total and print.
- Users can discount on U.Price and T.Price conveniently. The discount methods include discount at a fixed number, discount in subtraction and discount in percentage. Please refer to Discount Operations in page 15.

2.5 Salesman and Waiter Function

- User could enable salesman login functions. Please refer to Salesman function in page 17 and Spec135.
- User could enable waiter functions. Please refer to Waiter function in page 18 and Spec136.

2.6 Report Functions

- Users could print the total reports with time periods of last 32 stat. day, stat. month, stat. quarter or manual time period.
- Users can print the reports for all departments, all classes and part of PLU (below 1000), with a time period of present stat. day, stat. month, stat. quarter or manual time period.
- Please refer to Account Operations in page 49 for the details.

2.7 Sales details

- ECR not only with report print function, but also store the sales record in details, this record can transfer to PC via internet, RS232 or U-disk.
- Because the storage room limit, if operator don't transfer the details often, the ECR will delete the old record automatically to save the new records.
- The storage for the sales details is 6000 records (can enlarge into 10000 and more). Each cargo takes one record.

2.8 Network function

- In local area network with a PC or Router enabled DHCP service, scales can connect to network directly without any IP setting.
- If you want to nominate the IP for certain ECR, to set Spec150~153 is for 4 segment of IP (Default is 192.168.0.0. When last segment is 0, that means ECR connect with Network with way of DHCP. Also means that default way is DHCP), Spec158~161 is for 4 segment of gateway of Network. (Default is 192.168.0.1).
- If the Network for the ECR and PC is not in the same one, you can make that with directional connect way. Directional connect include: From PC to ECR (should nominate the IP of certain ECR on the PC software), and from ECR to PC (should set Spec043 as 2-----client end mode, and set IP of PC at Spec154~157)

- Spec166~Spec169 is for the ECR's Network Port, change these items may lead to abnormality with Network. Normally please don't modify these 4 items.

2.9 Ethernet Thermal Printer

- Device can connect with Ethernet thermal printer produced by our company, which uses as Remote Printer.
- User can connect Printer and device one-to-one with Crossover Cable. Or connect printers and devices to Ethernet router (with DHCP function) for one-to-many, many-to-one, or many-to-many network.
- User can appoint special print format for Ethernet printer, which may different to printer on the device.

2.10 Software use

- In the CD, there is *software manual*, you can kindly install and use according to the manual.
- The user name of the PC software is **user**, the original password is blank.
- The administer name of the PC software is **admin**, the original password is **200806**.
- You can click *Help---Manual* after run the software, to check the software manual.

3 Fast Prog

Fast prog is the programme operation that draws out some frequently-used programme functions and enables users enter certain frequently-used programme interfaces without selecting in programme interface.

Please make sure system is in the interface of Sale Idle before transferring fast prog. If system is not in Sale Idle, pressing **【Cancel】** could enter the Sale Idle. If system is in sale operation, pressing **【Cancel】** for several times could quit to sale process and enter the interface of 『Sale Idle』.

3.1 Fast-Prog of PLU

Press **【F-Prog】** + **【PLU】** to enter PLU Fast Prog.

The process of programme is similar with PLU programme in standard programme interface. But users can finish PLU Fast Prog in sale interface.

Example 3-1 Fast-Prog of PLU

Edit PLU10 as a weight PLU with the name Pork-2, U.Price \$30.00/kg, cost \$24.00/kg and tare 0.005g.

Operations	Keys	Display	Remarks
『Sale Idle』			
PLU Fast Prog	【F-Prog】 + 【PLU】	F23 Prog Edit Step 0 PLU No. 0	
PLU Number	【1】【0】	F23 Prog Edit Step 1 Item Code	Number are between 1~9999999
Go to Next	【→】	0	
Input Item Code	90001	F23 Prog Edit Step 3 Unit	Usually use for distinguish number of cargo, please keep that identical with the barcode lable printing scale.
Go to Next	【→】	0	
Input Unit	【2】 (If don't input, count unit 2 is default one)	F23 Prog Edit Step 4 Unit Price 0.00	【1】 , default weight unit; 【0】 , 【2】 : default count unit; 【3】 : kg weight unit; 【4】 : g weight unit; 【5】 : ton weight unit; 【6】 : lb weight unit; 【7】 : 500g weight unit; 【8】 : 100g weight unit; unit 20~29 is count unit, unit inturns: pcs,box,package,case,fleck,copy,gross,loaf,set,team Detailed pls refer to unit chapter. Default weight unit mean the unit used for display. And it I suggested for weight PLU.
Go to Next	【→】		
Set U.Price	【3】【0】【00】	F23 Prog Edit Step 5	Default U.Price in sale. Don't have to input it. Users can temporarily input it in sale.

Operations	Keys	Display	Remarks
Go to Next	【→】	Cost 0.00	
Set cost	【2】【0】【00】	F23 Prog No 14	Use for calculate payoff cost, can not input
Go to Next	【→】	Name	
Set name	【Confirm】	Overwrite Lowercase	Enter text edit menu
Input Pork	【Shift】【p/P】	Overwrite Pork	
	【o】【r】【k】	Lowercase	
Save edited text	【Amend】	F23 Edit Step 14 Cargo Name	This 【Amend】 is to save text edit in buffers instead of PLU. Please pay attention: If users need save it in PLU, users need to press 【Amend】 again as the step below.
Save edited PLU	【Amend】		PLU10 is saved.
Return to sales	【Cancel】		

Note 1 Except the parts which have been instructed, meaning of the other words are listed in *List of Programme Interface* in page 22.

Note 2 PLU fast-prog is forbidden when Spec080=0.

Note 3 Before you move to next step, the display of E1.01 Data Invalid means that the programme data you input is invalid.

Note 4 Edit step is not continuous when users press 【←】 and 【→】 to select the programme content. There are two reasons. First reason is that the content in that part is meaningless. For example, tare is not present in count PLU programme. The second reason is that the content in that part is seldom used and has been set as non-programme content (Skip) in P31 and P32. Users could change that setting for personal usage. Please refer to corresponding chapters for details.

3.2 Fast-Prog of Shortcut Key for PLU

Press 【F-Prog】 + 【SCxx】 to enter PLU shortcut key programme. 【SCxx】 could be one of 【SC1】 ~ 【SC63】. After pressing one key, Users can input the PLU which the pressed key appoints to. Then press 【Amend】 to save and exit.

Users can save without exit if they would like to go on to amend other shortcut keys. Press 【Confirm】 to save the change and press another 【SCxx】 to amend. The number of input PLU must exist. The process of programme is similar with scPLU programme in standard programme interface. Please refer to the process shown below.

Example 3-2 Fast-Prog of Shortcut Key for PLU. Amend a shortcut key.

Operations	Keys	Display	Remarks
『Sale Idle』			
PLU shortcut key programme, and the object is SC1	【F-Prog】 + 【SC1】	F14 F-Prog Key No. 1-1 PLU No. 0	
Input PLU number	【1】【0】	F14 F-Prog Key No. 1-1 PLU No. 10	
Save directly	【Amend】		Save to the device.

Note 1 When Spec081=0, PLU shortcut-key fast-prog is forbidden.

Example 3-3 Fast-Prog of Shortcut Key for PLU. Amend two or more shortcut keys.

Operations	Keys	Display	Remarks
『Sale Idle』			
PLU shortcut key programme, and the object is SC1	【F-Prog】 + 【SC1】	F14 F-Prog Key No. 1-1 PLU No. 0	
Input PLU number	【1】【0】	F14 F-Prog Key No. *** PLU No.	Save to temporary buffer.
Confirm input	【Confirm】		
Set SC2	【SC2】	F14 F-Prog Key No. 1-2 PLU No. 0	
Input PLU number	【1】【1】	F14 F-Prog Key No. *** PLU No.	Save to temporary buffer.
Confirm input	【Confirm】		
Set Shift+SC1	【Shift】【SC1】	F14 F-Prog Key No. 2-1 PLU No.	
Input PLU number	【1】【0】【0】	F14 F-Prog Key No. *** PLU No.	Save to temporary buffer. The last confirm can be skipped. Press 【Amend】 directly.
Confirm input	【Confirm】		
Save	【Amend】		Save to the device.

Note 1 When Spec081=0, PLU shortcut key fast prog is forbidden.

3.3 Fast-Prog of Spec Parameters

Press 【F-Prog】 + 【Mode】 to enter Spec parameters fast prog.

Please select the number you want to edit by pressing **【←】【→】**. The second window shows the number of Spec which is being edited. The third window shows current parameters configuration. The fourth window shows the data which has been edited by users.

Spec data parameters are made up of some number data. Refer to Definitions of Spec data parameters in page 57 in order to understand functions of these parameters.

Press **【Amend】** to save and quit, or press **【Cancel】** to quit without saving. The process of programme is similar with Spec programme in standard programme interface. For details, please refer to the process shown below.

Here, we are going to amend Spec000 to 2, Spec002 to 77 and Spec040 to 99. We would present the processes without discussing on the parameters we actually amend and their meanings.

Example 3-4 Fast-Prog of Spec Parameters

Operations	Keys	Display	Remarks
『Sale Idle』			
Spec fast prog	【F-Prog】 + 【Mode】	F12 F-Prog Spec 0 Original 1 Target 1	
Change to 2	【2】	F12 F-Prog Spec 2	Using 【←】【→】 can only get to amend items in Spec amend level 0.
Enter Spec002	【→】【→】	Original 20 Target 20	
Change to 77	【7】【7】	F12 F-Prog Spec 2 Original 20 Target 77	
Choose steps directly	【×】	F12 F-Prog Spec 40	
Input step 40	【4】【0】		
Confirm step	【Confirm】	F12 F-Prog Spec 40 Original 0 Target 0	The input number of step must be in Spec amend level 0 or 1. If not, the step cannot be reached.
Change to 99	【9】【9】		
Save	【Amend】		Saved to the device
Exit	【Cancel】		

Note 1 Spec fast-prog programme is forbidden when Spec082 = 0.

Note 2 Refer to Definitions of Spec data parameters in page 57 to know the definitions of data parameters .

Note 3 Read the definition of the parameter before you change it. And don't change any unknown parameters in Spec programme.

Note 4 xxx is not continuous when users press **【←】** and **【→】** to select the programme content. Users can

only select Spec in level 0 by pressing **【←】** and **【→】**. You have to input corresponding numbers after pressing **【×】** to change Spec in level 1. And users cannot reach Spec in level 2 and level 3 because their data are involved with some specifications in measurement and other hardware fields.

3.4 Fast-Prog of Unit price

After transfer PLU, press **【-@】** or **【@Price】** to fast change this PLU's price

Example 3-5 Fast-Prog of unit price (Spec083=1)

Operations	Keys	Display	Remarks
『Sale Idle』			
Transfer PLU10	【1】【0】【PLU】	U.Price 5.00	
Input new U.Price	【6】【0】【0】	U.Price 6.00	
Amend price	Long Press 【@Price】	U.Price 6.00	PLU10's default U.Price change to 6.00
Exit	【Cancel】		

Note 1 When Spec083=1, the step to amend unit price please refer to step 2: first judge whether the input price in discount section or not, then set the accordant price as PLU's default price

Example 3-6 Fast-Prog of unit price (Spec083=2)

Operations	Keys	Display	Remarks
『Sale Idle』			
Transfer PLU10	【1】【0】【PLU】	U.Price 5.00	
Input new U.Price	【6】【0】【0】	U.Price 6.00	
Amend price	【@Price】	U.Price 6.00	PLU10's default U.Price change to 6.00
Exit	【Cancel】		

Note 1 When Spec083=2, during the unit price amend, it will not judge the rationality of the input price and directly save as PLU's default price

4 Sale Operations

4.1 Transfer and Lock of PLU

PLU9999999 is a temporary weight goods (Spec93) , PLU9999998 is a temporary count goods (Spec94) .
Except this two temporary PLU, user can use all other 7 digits PLU.

4.1.1 Transfer by Using PLU Number

Example 4-1 Use PLU Number to Transfer Weight PLU

Transfer PLU10

Operations	Keys	Display	Remarks
『Sale Idle』			
Input number	【1】【0】		
Transfer PLU	【PLU】		
Clear PLU	【Cancel】		

4.1.2 Transfer by Using PLU Shortcut Keys

Example 4-2 Use PLU Shortcut Keys to Transfer Weight PLU

Transfer SC1, assuming SC1=PLU10

Operations	Keys	Display	Remarks
『Sale Idle』			
Use shortcut key	【SC1】		
Clear PLU	【Cancel】		

4.1.3 Transfer Temporary PLU

Example 4-3 Transfer Temporary PLU

操作	按键	显示	备注
『Sale Idle』			
Input Unit Price	【1】【3】【0】		
Transfer temporary by-count PLU	【×】		Note 1 Input count number
Transfer temporary by-weight PLU	【×】		Note 2 Input weight number
Clear PLU	【Cancel】		

Note 1 Temporary by-count PLU's number are decided by Spec094 (the default is 9999998)

Note 2 Temporary by-weight PLU's number are decided by Spec093 (the default is 9999999)

4.2 Manual Goods Sale

4.2.1 Sale and Print of Single by-count PLU

Example 4-4 Sale for Single by-count PLU

Sell 5 pcs PLU10. Assume PLU10 is a mineral water, unit price \$3/PC

Operations	Keys	Display	Remarks
『Sale Idle』			

Operations	Keys	Display	Remarks
Transfer PLU10	【1】【0】【PLU】	Mineral Water U.Price 3.00 V1+ 3.00	
Input PLU 10 quantity	【×】【5】	Mineral Water Count 5 U.Price 3.00 V1+ 15.00	If sales 1pc, user can print or accu directly, ignore this step.
Print	【Print】		

Note 1 Two qualifications are indispensable when directly print without accumulating: 1. Current accumulative buffer is empty, 2. The value of Spec060 is not set to be 3 (orbid cashing mode with default zero change).

4.2.2 Sale and Print for Different Kinds of Goods

Example 4-5 Different kinds of goods' sale and print

Sell 2 pcs PLU10. PLU10 is mineral water, unit price \$3/pc; sell 1 pcs PLU 11, PLU 11 is melon seeds, unit price \$5/pc. Pay \$50.

Operations	Keys	Display	Remarks
『Sale Idle』			
Transfer PLU10	【1】【0】【PLU】	Mineral Water U.Price 3.00 V1+ 3.00	
Input pcs	【×】【5】	Mineral Water Count 5 U.Price 3.00 V1+ 15.00	If a by-weight PLU is called, input weight information here.
Accumulate	【Accu】	S00:1 Sale 0.00 V1 15.00	
Transfer PLU11	【1】【1】【PLU】	Beef Jerky U.Price 5.00 V1+ 20.00	
Accumulate	【Accu】	S00:2 Sale 0.00 V1 20.00	
Input Cash number	【5】【0】【00】	Total 50.00	
Print	【Print】	Cash 20.00 Change -30.00	

Note 1 If payment value is equal to total price could print out directly without input value.

4.3 Discount Operations

4.3.1 Unit Price Discount

The data after discount should be within the discountable area. If the data exceeds the area, discount operation would fail

Example 4-6 Execute Discount at a Fixed Number

Discount in U.Price: discount the U.Price to \$2.50/kg. Assume that PLU10 is water with U.Price \$3.00/kg

Operations	Keys	Display	Remarks
『Sale Idle』			
Transfer PLU10	【1】【0】【PLU】	Mineral Water 单价 3.00 V1+ 3.00	
Input discount price	【2】【5】【0】	Mineral Water	User can press 【Confirm】 or 【×】 to confirm the discount price without press 【@Price】
Execute discount	【@Price】	单价 2.50 V1+ 2.50	
Print	【Print】		

Note 1 When Spec083=2, you can not press【@U.P.】 to execute discount cause it will amend PLU's default price

4.3.2 Total Price Discount

The operations of T.Price discount and U.Price discount are the same. Under the condition that PLU is not transferred and with accumulative buffers, execute discount operation is to discount on T.Price. The processes are not repeated here. The limit of discount on T.Price is a accumulative value of U.Price discount limits of all goods.

4.4 Operations of Sale Buffers

4.4.1 Switch of Sale Buffers

Example 4-7 Switch of Sale Buffers

Operations	Keys	Display	Remarks
『Sale Idle』			
Transfer PLU10	【1】【0】【PLU】	S00:0 Sale 0.00 V1 0.00	
Sell some goods	.....	S00:2 Sale 0.00 V1 18.00	
Service other customers, for current customer delay checking out	.....		Press 【Pre-Print】 can print recorded PLU list.

Operations	Keys	Display	Remarks
Switch buffer V2	【←V→】【2】 【Confirm】	S00:0 Sale 0.00 V2 0.00	
Other operations			Execute sales. Users can switch to other V according to demands.
Customer V1 Check out	【←V→】【1】 【Confirm】	S00:2 Sale 0.00 V1 18.00	
Add other goods or direct print	【Print】		

4.4.2 Cancel Sale Data in Sale Buffers

Example 4-8 Clear All Data in Current Sale Buffers

Operations	Keys	Display	Remarks
『Sale Idle』			
Transfer PLU10	【1】【0】【PLU】	Mineral Water U.Price 3.00 V1+ 3.00	
Input PLU10 quantity	【×】【5】	Mineral Water Count 5 U.Price 3.00 V1+ 15.00	
Accumulate	【Confirm】	S00:1 Sale 0.00 V1 15.00	
Transfer PLU11	【1】【1】【PLU】	Beef Jerky U.Price 5.00 V1+ 20.00	
Accumulate	【Confirm】	S00:2 Sale 0.00 V1 20.00	
Enter cancel interface	【Amend】	Total Count 6 Total 20.00	
Clear all data	【Confirm】	S00:0 Sale 0.00 V1 0.00	

Example 4-9 Clear One Goods in Current Sale Buffer

Operations	Keys	Display	Remarks
『Sale Idle』			
Transfer PLU10	【1】【0】【PLU】	Mineral Water U.Price 3.00 V1+ 3.00	
Input PLU10 quantity	【×】【5】	Mineral Water Count 5 U.Price 3.00 V1+ 15.00	
Accumulate	【Confirm】	S00:1 Sale 0.00 V1 15.00	
Transfer PLU11	【1】【1】【PLU】	Beef Jerky U.Price 5.00 V1+ 20.00	
Accumulate	【Confirm】	S00:2 Sale 0.00 V1 20.00	
Enter cancel interface	【Amend】	Total Count 6 Total 20.00	
Use 【←】 【→】 to select	【→】	Mineral Water No.1 10 Count 5 Price 15.00	
Clear select data	【Confirm】	S00:1 Sale 0.00 V1 5.00	5 pcs mineral water are reject 1 pc beef jerky keep, \$5.00

4.5 Salesman and waiter

4.5.1 Personnel record

Please refer to *Salesman Programme* in page 41 for editing the salesman. Salesman and waiter use the same personnel sheet.

4.5.2 Salesman function

Salesman Function is disabled as default. **User can enable it at Spec135.** Normally, Set Spec135=2 or 4.

Only non-zero password Personnel can login as salesman when Spec135=4 or 5.

User need to input salesman's number and password in the login menu before get into sale menu when salesman function is enable.

4.5.3 Waiter function

Waiter function disable for factory default. **Use can enable this function in Spec136.** And user can select memory mode in Spec137

Example 4-10 Waiter appointed operation

Operations	Keys	Display	Remarks
『Sale Idle』			
Input waiter number	【2】【0】【←V→】		There is no clue on the display, after this operation. A single beep, means the operation is succeed

4.6 Inquiry of Sale Records and Markers of Returns of Goods

Mark the tenth item in the sale record as return of goods.

Example 4-11 Inquiry of Sale Records and Markers of Returns of Goods

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter 『Sale Records』	Long Press 【Amend】	Beef Jerky No.2 PLU11 Count 1 Price 5.00	
Other information of record items	【F-Prog】 + 【→】	2009-07-04 10:16:54 Saturday	
Other information of record items	【F-Prog】 + 【→】	132/132 FID 96 SID 48	Note 1
Other information of record items	【F-Prog】 + 【→】	Beef Jerky No.2 PLU11 Count 1 Price 5.00	
See previous record	【←】	Mineral Water No.1 PLU10 Count 5 Price 15.00	
Search record based on time	【×】	Time 1 2009-07-04 12:16:54 Saturday	
Confirm time	Input the record's time and press 【Confirm】	Beef Jerky No.1 PLU11 Count 5 Price 25.00	
Sign as reject	【F-Prog】 + 【Amend】		Need Spec74=1

Operations	Keys	Display	Remarks
Other information of record items	【F-Prog】 + 【→】	2009-07-04 9:32:20 Saturday	
Other information of record items	【F-Prog】 + 【→】	123/132 FID 90 SID 42 Reject	Here is “Reject” mark for reject PLU
Return to sale mode	【Cancel】		

Note 1 132/132 means there are total 132 records; this record is the 132's record. When the number is close to 8000, the device would delete the earliest records automatically.

4.7 Bar code printing and scanning

4.7.1 Exterior bar code

Exterior bar code is EAN/UPC barcode normally, which is defined by the standards organisation GS1.

If user look for commodity by exterior bar code, user need to input the commodity's bar code to **PLU's Index Barcode**, after the scanner scan the bar code, it will search and transfer the same index PLU automatically.

When user edit the PLU on the scale, scan the exterior bar code during the PLU number step, it will transfer the PLU related to the exterior bar code; if scans the exterior bar code in other step, it will consider this bar code as present PLU's index barcode.

4.7.2 Interior bar code

Interior bar code is user appointed barcode format and only used in small area, generally used for communication between barcode scale and cash machine like cash register scale or cash register machine.

In the rule of EAN-UCC, define the prefix code 20-29 as shop inside use to avoid the repeatance with EAN code. So, if user uses both exterior and interior bar code, then interior bar code's prefix must inside 20-29.

To meet the different request, the interior bar code's format can be defined by user, but the print device (barcode label scale) and scan device (cash register scale or cash register) must with the same format, then the interior barcode can be exactly recognised

5 Programme Operations

5.1 Please Read this Part First

There are detailed programme operations of the device in this chapter, as well as examples for users. But some parts of programme content are very complicated such as print format edit and barcode format edit. Devisers suggest users use company offered software when users are in need of these functions. The company software offers users a convenient interface to edit all the working parameters and sale data of the device. The setting data can be downloaded from Ethernet (real-time download), or transferred in the form of files by USB flash disk (Users edit the data on PC and store data in USB flash disk, then download data to device from USB flash disk.).

Devisers are convinced that it's easy to learn to use the company software. As long as users own basic computer operation knowledge and learn with user manual of this software (User manual would be installed with the software), users can operate the software in a very short time. If users cannot use computer and are still in need of complicated programme operations, users can write down the demands and send to us.

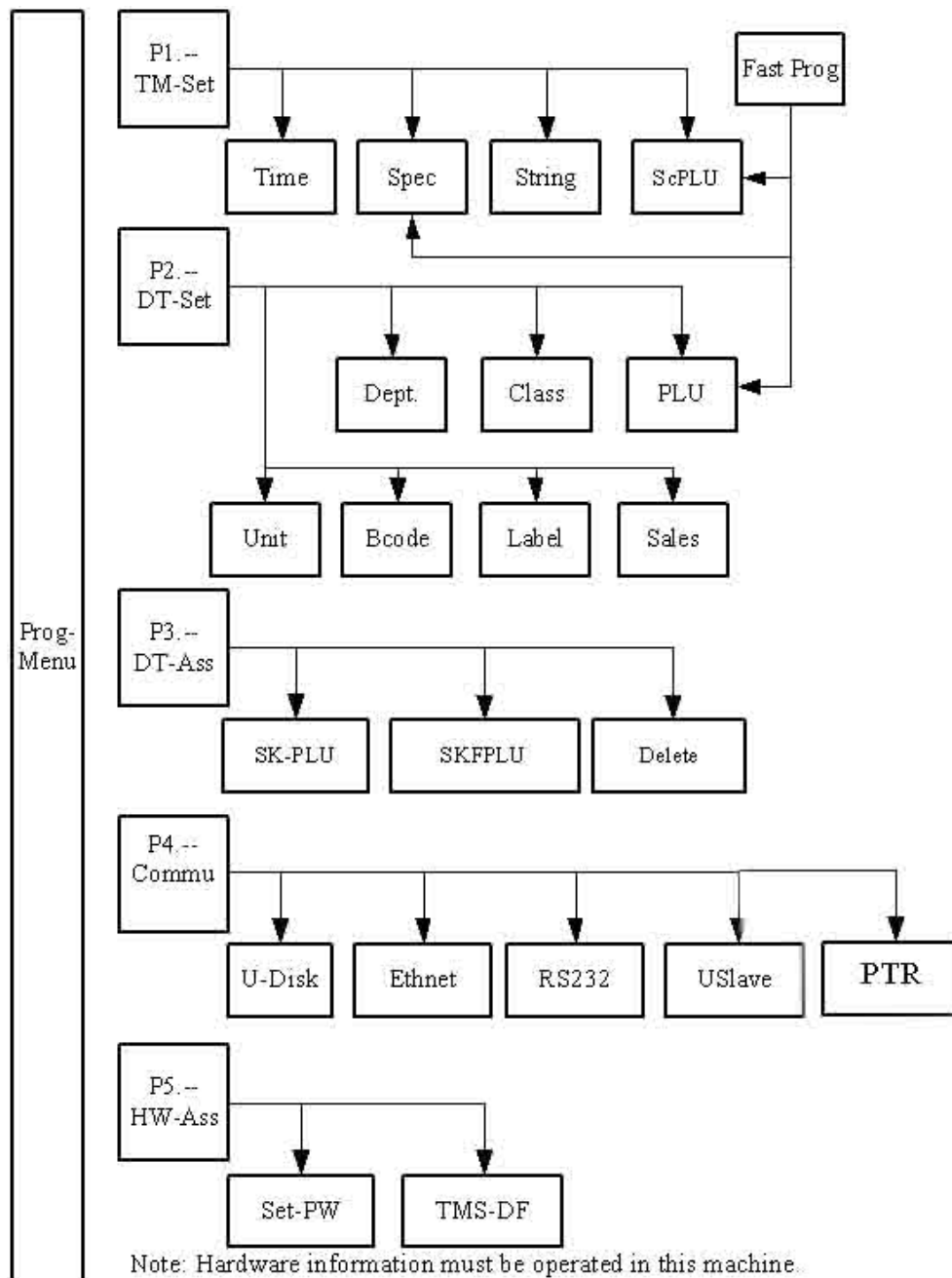
If computers cannot be used in users' circumstances, and users are indeed in need of functions of this part, please read content in this chapter carefully. In consideration of too much content, detailed example instructions of all operations will not be provided in some chapters. But all the functions are instructed in words and processes are arranged in sequence of steps. Users should read *Tree-shaped Design of Edit Steps* and *Frequently-used Keys in Prog Interfaces* first carefully. Then do programme operations according to instructions in *List of Programme Interface* and corresponding chapters on the basis of fully understanding of these two parts.

5.2 Basic Operations in Programme Interface

5.2.1 Tree-shaped Design of Edit Steps

Prog Menu	P1 Device Paramete (TM-Set)	P11	Time	Press 【Mode】 first enter P1; Use 【←】 and 【→】 to select one of P1 to P5. Use 【Confirm】 to select corresponding programme operations; Or press 【1】 ~ 【5】 directly to enter P1 ~ P5; Then use the way to go to Next. The operations are a little different in various programme operations. But they are almost designed into tree-shaped. Instructions and examples about each part would be in following chapters.
		P12	Spec	
		P13	Sring	
		P14	PLU Shortcut	
	P2 Sale Data (DT-Set)	P21	Dept.	
		P22	Class	
		P23	PLU	
		P24	Unit	
		P25	Barcode	
		P26	Print format	
		P27	Salesman	
	P3 Data Assistant (DT-Ass)	P31	PLU Prog steps	
		P32	PLU F-Prog steps	
		P33	Delete Sale data	
	P4 Communications (Commu)	P41	USB flash disk	
		P42	Ethernet	
		P43	RS232	

P5	Hardware Assistant (HWAss)	P44	USB slave
		P51	Set the passwords
		P52	Factory default



Picture 5-1 Sketch map of tree-shaped design of edit interface

5.2.2 Frequently-used Keys in Prog Interfaces

- **【Amend】**: **Save the amended content and go back to previous interface.** If operation is in DTSet, go back to step 0 after save and wait for new number to be input to amend.
- **【Cancel】**: **Don't save and go back to previous interface.**
- **【Confirm】**: **Get into next step to edit.** Such as enter P3 by pressing **【Confirm】** when operation is in P31. And press **【Confirm】** to enter certain edit interface when operation is in text edit or in edit

interface of print format. Then press **【Amend】** to save and exit, or press **【Cancel】** to exit without saving.

- **【←】、【→】** : Steps selection. Such as press **【←】** and **【→】** to select steps P21~ P27
- **【↑】、【↓】**: Press **【↑】****【↓】** to select previous or next valid data when amending data in programme. And its function is the same as **【←】****【→】** in some interfaces when no data is to be amended.
- **【0】 ~ 【9】**: 00: Input corresponding numbers.
- **【back】** : Delete the last digit number.
- **【×】** : For so many steps to select in processes of Spec and DTSet edit operations in TMSet, users can use **【×】** to select step to edit. There would be a hint for you to input the step number you want to select after you press **【×】** . Please input the number and press **【Confirm】** .

5.2.3 List of Programme Interface

Menus	Menu Prompt		Instructions	Remarks	State
P1	Parameter		Device Setting		
P11	Parameter	Time			
P12	Parameter	Spec	Specification Setting		
P12	Spec	0	Specification 000	Spec 000~499, see details in chapter 7.2 <i>Definitions of Spec data parameters</i>	
.....		
P12	Spec	499	Specification 499		
P13	Parameter	String	String Setting		
P13	String	0	String 0: Store Name		
P13	String	1	String 1: Device Name		
P13	String	2	String 2: Prefix of Money Unit		
P13	String	3	String 3: Suffix of Money Unit		
P13	String	4	String 4: Bill text 1		
P13	String	5	String 5: Bill text 2		
P13	String	6	String 6: Bill text 3		
P13	String	7	String 7: Bill text 4		
P13	String	8	String 8: Bill text 5		
P13	String	9	String 9: Bill text 6		
P13	String	10	String 10: Bill text 7		
P13	String	11	String 11: Bill text 8		
P13	String	12	String 12: Special text 1		
P13	String	13	String 13: Special text 2		
P13	String	14	String 14: Special text 3		
P13	String	15	String 15: Special text 4		
P13	String	16	String 16: Special text 5		
P13	String	17	String 17: Special text 6		
P13	String	18	String 18: Special text 7		
P13	String	19	String 19: Special text 8		
P14	Parameter	PLU shortcut	PLU shortcut setting		
P2	Database		Database setting		
P21	Database	Dept.	Dept. Setting		
P21	Step 00	Dept. No.	Dept.0: Number	Available dept edit number: 10~99.	
P21	Step 01	Dept. Name	Dept.1: Name		
P22	Database	Class	Class Setting		

Menus	Menu Prompt		Instructions	Remarks	State
P22	Step 00	Class No.	Class 0: Number	Available class edit number 10~99	
P22	Step 01	Class Name	Class 1: Name		
P22	Step 00	Parent Dept.	Class 2: Dept. that it belong to		
P23	Database	PLU	PLU Setting		
P23	Step 00	PLU No.	PLU 0: Number	Available PLU edit number 1~9999999.	
P23	Step 01	Item Code	PLU 1: Item Code	Be printed with barcodes.	
P23	Step 02	Index Barcode	PLU 2: Index for exterior barcode		
P23	Step 03	Unit	PLU 3: Unit	1 is default weight unit; 2 is default weight unit; 3 is kg weight unit; 4 is g weight unit; 5 is ton weight unit; 6 is pound weight unit; 7 is 500g weight unit; 8 is 100g weight unit.	
P23	Step 04	Unit Price	PLU 4: U.Price		
P23	Step 05	Cost	PLU 5: Cost		
P23	Step 06	Tare	PLU 6: Tare		
P23	Step 07	Print Format 1	PLU 7: Print format number of 1 st bill		
P23	Step 08	Barcode 1	PLU 8: Barcode number of 1 st bill		
P23	Step 09	Barcode Flag 1	PLU 9: Barcode flag of bill 1 st bill		
P23	Step 10	Print Format 2	PLU 10: Print format number of 2 nd bill		
P23	Step 11	Barcode 2	PLU 11: Barcode number of 2 nd bill		
P23	Step 12	Barcode Flag 2	PLU 12: Barcode flag of 2 nd bill		
P23	Step 13	Parent Class	PLU 13: class that it belongs to		
P23	Step 14	PLU Name	PLU 14: Goods name		
P23	Step 15	Add-on Text 1	PLU 15: Goods postil 1		
P23	Step 16	Add-on Text 2	PLU 16: Goods postil2		
P23	Step 17	Add-on Text 3	PLU 17: Goods postil3		
P23	Step 18	Add-on Text 4	PLU 18: Goods postil4		
P23	Step 19	Add-on Text 5	PLU 19: Goods postil5		
P23	Step 20	Add-on Text 6	PLU 20: Goods postil6		
P23	Step 21	Add-on Text 7	PLU 21: Goods postil7		
P23	Step 22	Print? Sale Date	PLU 22: Sale date print	0: not print, 1: print.	
P23	Step 23	Print? Sale Time	PLU 23: Sale time print	0: not print, 1: print at appointed time, 2: print printing time.	
P23	Step 24	Print? Pack Date	PLU 24: Packing date print	0: not print, 1: print.	
P23	Step 25	Print? Pack Time	PLU 25: Packing time print	0: not print, 1: print at appointed time, 2: print printing time.	
P23	Step 26	Print? User Date	PLU 26: Shelf date print	0: not print, 1: print.	
P23	Step 27	Sale Date	PLU 27: Sale days data	Number of days after current day.	
P23	Step 28	Sale Time	PLU 28: Sale time data	Appointed time for print.	
P23	Step 29	Pack Date	PLU 29: Packing days data	Number of days after current day.	
P23	Step 30	Pack Time	PLU 30: Packing time data	Appointed time for print.	
P23	Step 31	User Date	PLU 31: Shelf days data	Number of days after current day.	
P23	Step 32	Lower Discount	PLU 32: Manual discount lower limit	0: use system setting; 1: no lower limit; 2: Take original cost as lower limit; 3: Take PLU.34 as lower limit.	

Menus	Menu Prompt	Instructions	Remarks	State
P23	Step 33 Higher Discount	PLU 33: Manual discount upper limit	0: use system setting; 1: no upper limit; 2: Take original U.Price as upper limit; 3: Take PLU.35 as upper limit.	
P23	Step 34 Lower Date	PLU 34: Value of manual discount lower limit	Activated when DF_D=3.	
P23	Step 35 Higher Date	PLU 35: Value of manual discount upper limit	Activated when DF_D=3.	
P23	Step 36 A0: Sort	PLU 36: Customize 0 of auto discount	0: not activate; 1: discount on count; 2: discount on periods of time.	
P23	Step 37 A0: Weekday	PLU 37: Activation day of the customize	Sunday: 1, Monday: 2, Tuesday: 4 Wednesday: 8, Thursday: 16, Friday: 32 Saturday: 64. When this customization discount needs to be activated at some certain days, input add-up number of these days here. To input 127 means that the discount is activated all the days. To input $1 + 64 = 65$ if the discount is only activated at Saturday or Sunday.	
P23	Step 38 A0: Low Border	PLU 38: The Lower limit of customization activation period Start at this point (include this point)	Execute this discount way in this customization activation period. Input weight/count according to the unit of PLU when discount on amount.	
P23	Step 39 A0: High Border	PLU 39: The upper limit of customization activation period End at this point (not include this point)	When inputting count, 10 goods needs to input 10.000 or move decimal (long press 【Shift】 or 【F-Prog】+【Shift】) to input 10. Avoid inputting 0.010 for 10 pcs. When discount on time, the format of input time is HHMM. If the time is 20: 30, users need to move decimal to input 2030.	
P23	Step 40 A0: Set to Data	PLU 40: Discount Price of customize	If number is positive, discount number would replace U.Price. If number is minus, new U.Price is the price that subtracts the input number from former U.Price. But minus values cannot be input in the scale.	
P23	Step 41 A1: Sort	PLU 41: Customize 1 of auto discount	It's the same as last customize discount. After the edit of last customize discount it can be edited.	
P23	Step 42 A1: Weekday	PLU 42: Activation day of the customize		
P23	Step 43 A1: Low Border	PLU 43: The Lower limit of customization activation period		
P23	Step 44 A1: High Border	PLU 44: The upper limit of customization activation period		
P23	Step 45 A1: Set to Data	PLU 45: Discount Price of customize		
P23	Step 46 A2: Sort	PLU 46: Customize 2 of auto discount	It's the same as last customize discount. After the edit of last	
P23	Step 47 A2: Weekday	PLU 47: Activation day of the customize		

Menus	Menu Prompt	Instructions	Remarks	State
P23	Step 48 A2: Low Border	PLU 48: The Lower limit of customization activation period	customize discount it can be edited.	
P23	Step 49 A2: High Border	PLU 49: The upper limit of customization activation period		
P23	Step 50 A2: Set to Data	PLU 50: Discount Price of customize		
P23	Step 51 A3: Sort	PLU 51: Customize 3 of auto discount	It's the same as last customize discount. After the edit of last customize discount it can be edited.	
P23	Step 52 A3: Weekday	PLU 52: Activation day of the customize		
P23	Step 53 A3: Low Border	PLU 53: The Lower limit of customization activation period		
P23	Step 54 A3: High Border	PLU 54: The upper limit of customization activation period		
P23	Step 55 A3: Set to Data	PLU 55: Discount Price of customize		
P23	Step 56 Tax Sort	PLU56: tax rate sort	0: excute tax rate according to Spec 116,117 1: tax free price mode 2:: tax free price mode, input unit price is price duty paid 3.with tax price mode	
P23	Step 57 Tax Rate	PLU57: tax rate percentage	0.01% tax rate, 17% input 1700	
P24	Database Unit	单位 Setting		
P24	Step 00 Unit No.	Unit 0: Number		
P24	Step 01 Unit Name	Unit 1: Name		
P24	Step 04 Basic Unit	Unit 4: Measure Mode(just open weighing mode)	1 is default weight unit, 2 is default count unit,	Not Open
P24	Step 05 Package	Unit 5: Packing	In weighing mode, means how much gram as one packing In counting mode, means how many pcs as one packing	Not Open
P25	Database Barcode	Barcode Setting		
P25	Step 00 Barcode No.	Barcode 0: Number	Edited number of barcode when leaving factory are 1~9. Available barcode edit number 10~99.	
P25	Step 01 Barcode Name	Barcode 1: Name		
P25	Step 02 Barcode Format	Barcode 2: Type		
P25	Step 03 Check Type	Barcode 3: Checkout		
P25	Step 04 Const Number 1	Barcode 4: Constant number 1		
P25	Step 05 Const Number 2	Barcode 5: Constant number 2		
P25	Step 05 Barcode Detail	Barcode 6: Data format description	Please pay attention that edit content should accord with certain format: refer to chapter of barcode.	
P26	Database Print Format	Print format Setting		
P26	Step 00 Print Format No.	Print format 0: Number	Edited label in factory: 1~9; Available label edit number 10~29.	
P26	Step 01 Name	Print format 1: Name		
P26	Step 02 Sort	Print format 2: Using sort		
P26	Step 03 X Length(mm)	Print format 3: Width		
P26	Step 04 Y Length(mm)	Print format 4: Height		
P26	Step 05 Text 01	Print format 5: Text 1		

Menus	Menu Prompt		Instructions	Remarks	State
P26	Step 06	Text 02	Print format 6: Text 2		
P26	Step 07	Text 03	Print format 7: Text 3		
P26	Step 08	Text 04	Print format 8: Text 4		
P26	Step 09	Text 05	Print format 9: Text 5		
P26	Step 10	Text 06	Print format 10: Text 6		
P26	Step 11	Text 07	Print format 11: Text 7		
P26	Step 12	Text 08	Print format 12: Text 8		
P26	Step 13	Text 09	Print format 13: Text 9		
P26	Step 14	Text 10	Print format 14: Text 10		
P26	Step 15	Text 11	Print format 15: Text 11		
P26	Step 16	Text 12	Print format 16: Text 12		
P26	Step 17	Text 13	Print format 17: Text 13		
P26	Step 18	Text 14	Print format 18: Text 14		
P26	Step 19	Text 15	Print format 19: Text 15		
P26	Step 20	Text 16	Print format 20: Text 16		
P26	Step 21	Font Mode	Print format 21: Font mode	Suggest new font mode after V2.03 but still support old font	
P26	Step 22	Print Item	Print format 22: Print Item		
P26	Step 00	Item No.	Print item 0: Item number	Available print item edit number 0~99.	
P26	Step 01	Flag 1	Print item 1: Symbol 1		
P26	Step 02	Flag 2	Print item 2: Symbol 2		
P26	Step 03	Flag 3	Print item 3: Symbol 3		
P26	Step 04	Print Condition	Print item 4: Print state		
P26	Step 05	Print Direction	Print item 5: Print angle		
P26	Step 06	Snap to Grid	Print item 6: Type of snap to grid		
P26	Step 07	Text Font	Print item 7: Print font		
P26	Step 08	Pos of X	Print item 8: Start position X		
P26	Step 09	Pos of Y	Print item 9: Start position Y		
P26	Step 10	Length of X	Print item 10: Area length X		
P26	Step 11	Length of Y	Print item 11: Area length Y		
P27	Database	Salesman	Salesman	Available salesman edit number 10~99	
P27	Step 00	Salesman No.	Salesman 0: Number		
P27	Step 01	Salesman Name	Salesman 1: Salesman name		
P27	Step 02	Password	Salesman 1: Salesman password		
P3	Data Ass		Data Assistant Setting		
P31	Data Ass	PLU Step	PLU Prog skip step setting		
P31	Step 00	PLU No.	PLU 0: Number	0: Prog means to be programme, 1: Skip means skipped in programme	
P31	Step 01	Item Code	PLU 1: Item Code		
P31	Step 02	Index Barcode	PLU 2: Index for exterior barcode		
P31	Step 03	Unit	PLU 3: Unit		
P31	Step 04	Unit Price	PLU 4: U.Price		
P31	Step 05	Cost	PLU 5: Cost		
P31	Step 06	Tare	PLU 6: Tare		
P31	Step 07	Print Format 1	PLU 7: Print format number of 1 st bill		
P31	Step 08	Barcode 1	PLU 8: Barcode number of 1 st bill		
P31	Step 09	Barcode Flag 1	PLU 9: Barcode flag of bill 1 st bill		
P31	Step 10	Print Format 2	PLU 10: Print format number of 2 nd bill		

Menus	Menu Prompt		Instructions	Remarks	State
P31	Step 11	Barcode 2	PLU 11: Barcode number of 2 nd bill		
P31	Step 12	Barcode Flag 2	PLU 12: Barcode flag of 2 nd bill		
P31	Step 13	Parent Class	PLU 13: class that it belongs to		
P31	Step 14	PLU Name	PLU 14: Goods name		
P31	Step 15	Add-on Text 1	PLU 15: Goods postil 1		
P31	Step 16	Add-on Text 2	PLU 16: Goods postil2		
P31	Step 17	Add-on Text 3	PLU 17: Goods postil3		
P31	Step 18	Add-on Text 4	PLU 18: Goods postil4		
P31	Step 19	Add-on Text 5	PLU 19: Goods postil5		
P31	Step 20	Add-on Text 6	PLU 20: Goods postil6		
P31	Step 21	Add-on Text 7	PLU 21: Goods postil7		
P31	Step 22	Print? Sale Date	PLU 22: Sale date print Attached: PLU.27: Sale date data		
P31	Step 23	Print? Sale Time	PLU 23: Sale time print Attached: PLU.28: Sale time data		
P31	Step 24	Print? Pack Date	PLU 24: Packing date print Attached: PLU.29: Packing date print		
P31	Step 25	Print? Pack Time	PLU 25: Packing time print Attached: PLU.30: Packing time data		
P31	Step 26	Print? User Date	PLU 26: Shelf date print Attached: PLU.31: Shelf date data		
P31	Step 32	Lower Discount	PLU 32: Manual discount upperlimit Attached: PLU.34		
P31	Step 33	Higher Discount	PLU 33: Manual discount lower limit Attached: PLU.35		
P31	Step 36	A0: Sort	PLU 36: Customize 0 of auto discount Attached: PLU.37-PLU.55		
P32	Data Ass	PLU F-Step	PLU F-Prog skip step setting		
The same as P31					
P33	Data Ass	Delete	Delete data of the scale	Validate code is needed to enter: 9958.	
P331	Delete	Dept.	Delete1: Dept.	When entering to delete, system would request to input 2 numbers which mean the start number and the end number of the data to delete. If the end number is 0, only data of the start number would be deleted. If the number is not 0 and it's less than start number, no data would be deleted.	
P332	Delete	Class	Delete2: Class		
P333	Delete	PLU	Delete3: PLU		
P334	Delete	Unit	Delete4: Unit		
P335	Delete	Barcode	Delete5: Barcode		
P336	Delete	Print Format	Delete6: Print format		
P337	Delete	Salesman	Delete7: Salesman		
P4	Commu		Communication Setting		
P41	Commu	USB Disk\	Load and save of data in USB flash disk		
P42	Commu	Ethernet	Not real-time Download from Ethernet		
P43	Commu	RS232	RS232communication		
P44	Commu	USB Slave	USB slave communication		Not Open
P45	Commu	Ethernet Printer	Ethernet printer communication		
P5		Hardware Ass	Hardware Assistant Setting	Admin password is required to enter administrator's password: 200806	

Menus	Menu Prompt	Instructions	Remarks	State
P51	Hardware Ass Set Password	Hardware: setting password		
P511	Set Password Admin	Admin : Admin password	Input same passwords 2 times to complete amendment of password.	
P512	Set Password Sale	Sale : Sale password		
P513	Set Password Prog	Prog : Prog password		
P514	Set Password Acciybt	Account : Account password		
P515	Set Password Drawer	Drawer : Drawer password		
P52	Hardware Ass TMS Default	Hardware: Recover factory default		
P521	TMS Default Parameter Default	Fac-Set : Scale parameter(P1x)	The interface that requires to input validate code would be shown before default setting. Input 9958 to finish setting.	
P522	TMS Default Restore Factory Default	Base-DT : Default working data(P2x default)		
P523	TMS Default Database Default	EraseDT : All working data(P2x)		
P524	TMS Default All Default	Fac-All : All parameters and data(P2x)		

5.3 The Edit of All Parts in TMSet

5.3.1 Time Programme

Example 5-1 Time Programme

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Parameter Prog	
Enter time edit menu	【1】【1】	2009-07-04 10:16:54 Saturday	
	.....		Input Data & Time
Save time	【Amend】		
Return to sale	【Cancel】		

5.3.2 Programme of Spec Parameters

Example 5-2 Programme of Spec parameters

Modify Spec000 to 2, Spec 002 to 77, Spec040 to 99, this is just example for modifying data, not consult data's meaning.

Operations	Keys	Display	Remarks
『Sale Idle』			

Operations	Keys	Display	Remarks
Enter programme	【Mode】	P1 F-Prog Parameter	
Enter Spec	【1】【2】	P12 F-Prog Spec 0 Original 1 Target 1	
Change to 2	【2】	P12 F-Prog Spec 2	Using 【←】【→】 can only get to amend items in Spec amend level 0.
Enter Spec002	【→】【→】	Original 20 Target 20	
Change to 77	【7】【7】	P12 F-Prog Spec 2 Original 20 Target 77	
Choose steps directly	【×】	P12 F-Prog Spec 40	
Input step 40	【4】【0】		
Confirm step	【Confirm】	P12 F-Prog Spec 40 Original 0 Target 0	The input number of step must be in Spec amend level 0 or 1. If not, the step cannot be reached.
Change to 99	【9】【9】		
Save	【Amend】		Saved to the device
Exit	【Cancel】		

Note 1 The way it programmes is the same as the way in *Spec data parameter(Prog 3-4)* in page 11, except the way it enters programme page.

Note 2 Please refer to *Spec data parameter* in page 57 for definitions of all items of Spec data parameters.

5.3.3 Programme of Text Parameters

Example 5-3 Programme of Text Parameters

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog Parameter	
Enter text parameter	【1】【3】	P13 Prog String 0 Shop Name	
Switch to device name	【→】	P13 Prog String 1 Device Name	

Operations	Keys	Display	Remarks
Switch to store name	【←】	P13 Prog String 0 Shop Name	
Set name	【Confirm】	Overwrite Lowercase	Enter text edit menu
Input “Shop”	【Shift】【s/S】	Overwrite Shop Lowercase	
	【h】【o】【p】		
Save editing text	【Amend】		
Exit	【Cancel】		

Note 1 Please refer to 7.3 *Definitions of String Parameters* for definitions of each text parameter.

5.3.4 Programme of PLU Shortcut Keys

Example 5-4 Programme of PLU Shortcut Keys

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog 参数	
Enter PLU shortcut key	【1】【4】	P14 Prog Key No. 1-1 PLU No. 0	
Input PLU number	【1】【0】	P14 Prog Key No. 1-1 PLU No. 10	
Save directly	【Amend】		Save to the device

Note 1 The way it programmes is the same as the way of Example 3-2 and Example 3-3 in page 10, except the way it enters programme interface.

5.3.5 Programme of Fuction Shortcut Keys

Example 5-5 Programme of Fuction Shortcut Keys

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog 参数	
Enter Function shortcut key	【1】【5】 【SC1】	P15 Prog	

Operations	Keys	Display	Remarks
		Key No. 1-1 0	
Input PLU number	【7】【6】	P15 Prog Key No. 1-1 10	
Save directly	【Amend】		Save to the device

Note 1 Please refer to 7.4 *Definitions of Shortcut Function Key* for definitions of each function number.

5.4 The Edit of All Parts in DTSet

5.4.1 Department Programme

The department (Dept. for short) is the largest category in sales statistics. And it's marked with number from 1 to 99 and the corresponding meanings are shown below:

Number	Use	Instructions
1	System Dept.	Not edited weight Dept.
2	System Dept.	Not edited count Dept.
8	System Dept.	Error Dept.
9	Default Dept.	Default Dept. for Class editing
10~99	User Dept.	Dept. that users can edit

Example 5-6 Department Programme

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog Parameter	
Enter Dept. programme	【2】【1】	P21 Prog Edit Step 0 Dept. No. 0	
Enter number 10	【1】【0】	P21 Prog Edit Step 1 Dept. No.	
Next	【→】		
Edit department name			Department names would usually not be printed. And they are always used for management in PC. So editing their names is of little meaning. Here we skip it off.
Save editing data	【Amend】		Continue to edit other
Exit	【cancel】		

5.4.2 Class Programme

Class is the second largest category in sales statistics. And it is marked with number from 1 to 99 and the

corresponding meanings are shown below:

Number	Dept.	Use	Instructions
1	1	System Class	Not edited weight Class
2	2	System Class	Not edited count Class
8	8	System Class	Error Class
9	9	Default Class	Default Class for PLU editing
10~99		User Class	Class that users can edit

Example 5-7 Class Programme

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog Parameter	
Enter class programme	【2】【2】	P22 Prog Edit Step 0 Class No. 0	
Input class number 10	【1】【0】	P22 Prog Edit Step 1	
Next	【→】	Class Name	
Edit class name			Class names would usually not be printed. And they are always used for management in PC. So editing their names is of little meaning. Here we skip it off.
Next	【→】	P22 Prog Edit Step 2 Parent Dept. 0	
Input 10	【1】【0】		
Save editing class	【Amend】		Save department
Exit	【Cancel】		

5.4.3 PLU Programme

Price-LookUp is information cell for goods sale. Serial number of PLU, as the unique sign of device store PLU, is defined by user to correspond to actual goods. Remark number, as the number defined by users or the serial number of actual goods, is often printed as barcode. All the serial numbers which can be edited by users are from 1 to 9999999. And special serial numbers are corresponding to the meanings shown below:

Internal Number	Number	Class	Use	Instructions
1	9999999	1	System PLU	Not edited weight PLU
2	9999998	2	System PLU	Not edited count PLU
3	9999997	3	System PLU	Service charge PLU
10~5999	1~9999996		User PLU	PLU for users to edit

Example 5-8 PLU Programme

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Parameter Prog	
Enter PLU programme	【2】【3】	P23 Edit Step PLU No. 0 0	
PLU Number	【1】【0】	P23 Edit Step Item Code Prog 1 0	Item Code are between 1~9999999
Go to Next	【→】		
Input Item Code	90001	P23 Edit Step Unit Prog 3 0	Usually use for distinguish number of cargo, please keep that identical with the barcode lable printing scale.
Go to Next	【→】		
Input Unit	【2】 (If don't input, count unit 2 is default one)	P23 Edit Step Unit Price Prog 4 0.00	【1】 , default weight unit; 【0】 , 【2】 : default count unit; 【3】 : kg weight unit; 【4】 : g weight unit; 【5】 : ton weight unit; 【6】 : lb weight unit; 【7】 : 500g weight unit; 【8】 : 100g weight unit; unit 20~29 is count unit, unit inturns: pcs,box,package,case,fleck,copy,gross,loaf,set,team Detailed pls refer to unit chapter. Default weight unit mean the unit used for display. And it I suggested for weight PLU.
Go to Next	【→】		
Set U.Price	【3】【0】【00】	P23 Edit Step Cost Prog 5 0.00	Default U.Price in sale. Don't have to input it. Users can temporarily input it in sale.
Go to Next	【→】		
Set cost	【2】【0】【00】	P23 Prog No Name Prog 14	Use for calculate payoff cost, can not input
Go to Next	【→】		
Set name	【Confirm】	Overwrite Lowercase	Enter text edit menu

Operations	Keys	Display	Remarks
Input Pork	【Shift】【p/P】	Overwrite Pork	
	【o】【r】【k】	Lowercase	
Save edited text	【Amend】	P23 Prog Edit Step 14 Cargo Name	This 【Amend】 is to save text edit in buffers instead of PLU. Please pay attention: If users need save it in PLU, users need to press 【Amend】 again as the step below.
Save edited PLU	【Amend】		PLU10 is saved.
Return to sales	【Cancel】		

Note 1 Except the parts which have been instructed, meaning of the other words are listed List of Programme Interface in page 46

Note 2 The way it programmes is the same as the way Fast-Prog of Example 3-1 in page 8, except the way it enters programme page.

Note 3 xx is not continuous when users press 【←】 and 【→】 to select the programme content. There are two reasons. First reason is that the content in this part is meaningless. For example, tare is not present in count PLU programme. The second reason is that the content in that part is seldom used and has been set as non-programme content (Skip) in P31 and P32. Users could change that setting for personel usage and please refer to corresponding chapters for details.

5.4.4 Unit Programme

Unit is the basis of sale price. The scale has shielded parts of functions in consideration that edit of units may cause unnecessary trouble. The 8 units edited when when the scale is released from factory are shown as below:

Number	Instructions
1	Default weight unit
2	Default count unit
3	Kg unit
4	g unit
5	ton unit
6	lb unit
7	500g unit
8	100g unit
9~19	System reserved unit
20~99	Unit for user to add

Note 1 Default weight unit is the measure unit of the scale. Cash register do not have weighing module; this concept is to compatible with other cash register weighing series products.

Example 5-9 Unit Programme

操作	按键	显示	备注
『Sale Idle』			

操作	按键	显示	备注
Enter programme	【Mode】	P1 参数 Prog	
Enter unit programme	【2】【4】	P24 Edit Step Unit No. 0 0	
Enter number 30	【3】【0】	P21 Edit Step Unit Name Prog 1	
Next	【→】		
Set unit name	【Confirm】		Unit name printed as unitage
Clear original text	【End】		
Input bag	【b/B】【a/A】【g/G】		
Save editing text	【Amend】		Save unit name to buffer
Save editing unit	【Amend】		Go on edit other unit
Exit	【Cancel】		

Note 1 Now only open the single count unit, so you can not edit the unit's sort and packing number

5.4.5 Barcode Programme

Programme the barcode on the cash register is just to let the cash register machine can recognize the barcode according to special barcode format and read the commodity information from the barcode.

Barcodes have different meanings in various applications and coding systems. Some barcodes are already edited when the scale is released from factory. Users could choose some barcodes from them to use or edit the barcode for themselves.

Number	Use	Instructions
1~9	Factory Default	Already edited when the scale is released from factory
10~99	User's barcode	Barcode that can be edited by users

Example 5-10 Barcode Programme

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Parameter Prog	
Enter barcode programme	【2】【5】	P25 Edit Step Barcode No. Prog 0 0	
Enter number 10	【1】【0】	P25 Edit Step Barcode Name Prog 1	Barcode names would usually not be printed. And they are always used for management in PC. So editing their names is of little
Next	【→】		

Operations	Keys	Display	Remarks
Edit names			meaning. Here we skip it off.
Next	【→】		
Next	【→】		
Next	【→】		
Next	【→】		
Next	【→】	P25 Prog Edit Step 6 Barcode Detail	Barcode descriptions should be in exact appointed format and edit a text with the length of 24. Otherwise the format would be invalid when it's printed. Please refer to the content of Table 5-3 <i>Descriptions of Barcode Data Items</i> and Table 5-4 <i>Factory Default Barcode</i>
Edit the descriptions of barcodes	.....	
Save	【Amend】		
Exit	【Cancel】		

Table 5-1 List of Barcode Types

Barcode formats	Instruction	Valid number digit (Suggest)
0	Default	
1	EAN13	12
2	EAN8	7
3	UPC A	11
4	UPC E	6
5	EAN-128	Even or Odd with Checksum
6	Code-128C	Even or Odd with Checksum
7	ITF-25	Even or Odd with Checksum

Note 1 When select default, it will auto select the most reasonable barcode format according to valid number digit

Note 2 When print EAN-128, Code-128C or ITF-25, if length of number is odd number, it will auto add one checksum at the end. The arithmetic is same as EAN/UPC checksum

Table 5-2 Check Digit of Barcode

Check ways	0	All checks
	1	End Check
	2	Middle Check
	3	Not check

Note 1 Check digit of barcode for barcode formats is just an advice for the scale. The scale would process the check based on the selected barcode format. For example, EAN13 is verified by End Check no matter which kind of check is selected.

Table 5-3 Descriptions of Barcode Data Items

Items	Restrictions	Instructions	
Data Source	A~Z	A	Not print
		B	Spec Flag
		C	Constant Num 1

Items	Restrictions	Instructions	
		D	Constant Num 2
		E	PLU Number
		F	PLU Item Code
		G	PLU Index Barcode
		H	PLU Flag
		I	PLU real U.Price
		J	PLU count/weight
		K	PLU T.Price
		L	Sale T.Price
		M	Sale T.Count
		N	Sale T.Weight
		L	Add-up Times
		P	Sales man number
		Q	Sale date: year
		R	Sale date: month
		S	Sale date: date
display Length	0~9	Print length 0~9	
Data Shift	0~9	Move to right 0~9 digits	
Overflow management	0~3	0: not print	
		1: truncation print	
		2: fill in with character 0	
		3: fill in with character 9	

Table 5-4 Factory Default Barcode

Number	Name	Descriptions	Use	Instructions
1	B-Item 1	B201E500K500A000A000A000	Item barcode	2 digits Spec Flag, 5 digits PLU Number, 5 digits PLU T.Price.
2	B-Item 2	B201F500K500A000A000A000	Item barcode	2 digits Spec Flag, 5 digits PLU Item Code, 5 digits PLU T.Price.
3	B-Item 3	F700K500A000A000A000A000	Item barcode	7 digits PLU Item Code, 5 digits PLU T.Price.
4	B-Item 4	B201E400K600A000A000A000	Item barcode	2 digits Spec Flag, 4 digits PLU Number, 6 digits PLU T.Price.
5	B-Item 5	B201F400K600A000A000A000	Item barcode	2 digits Spec Flag, 4 digits PLU Item Code, 6 digits PLU T.Price.
6	B-Item 6	F600K600A000A000A000A000	Item barcode	6 digits PLU Item Code, 6 digits PLU T.Price.
7	B-Sum 1	B701L500A000A000A000A000	Total barcode	7 digits Spec Flag, 5 digits Sale T.Price.
8	B-Sum 2	B601L600A000A000A000A000	Total barcode	6 digits Spec Flag, 6 digits Sale T.Price.

9	B-Sum 3	B501L700A000A000A000A000	Total barcode	5 digits Spec Flag, 7 digits Sale T.Price.
---	---------	--------------------------	------------------	---

5.4.6 Print Formats Programme

Number	Use	Instructions
1~9	Factory default	Already edited when the scale is released from factory
10~39	User's print format	Print format can be edited by users

Different print formats are needed in various applications. Some print types are already edited when the scale is released from factory. Users could choose some formats from them or edit the format for themselves. **It's very hard to edit print format on the scale. Suggest users do not edit print format on the scale.**

This chapter would not offer any examples about print formats edit. Users should use the software on PC to edit print formats or write down demands and send them to us. We will edit the print format you need.

Table 5-5 Factory Default Print Formats

Number	Format type	Suitable paper	Instructions
1	Receipt	48mm	Print PLU number
2	Receipt	48mm	Print cargo number
3	Receipt	48mm	PLU name newline mode
4	Receipt	48mm	Large font mode
8	List	48mm	Cookroom list
9	List	48mm	Cookroom list, large font mode

If user really need to edit print format on the scale, please refer to 5.2.3 *List of Programme Interface* of P26 print format, following table are example to user refer:

Table 5-6 Print format:sub-item instruction

Print Item	Name	Sort	Length	Number Range	Instruction
Item No.	Number	Number	1	0~99	Unique number with order
Sign 1	Flag1	Code	1	Refer to later table	
Sign 2	Flag2	Code	1		
Sign 3	Flag3	Code	1		
Print State	Print	Code	1	0~255	0: Not Print
					1: Print
					2: By-weight PLU print
					3: By-count PLU print
					4: Temporary PLU print
					5: Tared PLU print
					6: Free PLU print
					7: Print with sale date
					8: Print with packing date
					9: Print with shelf date
					10: Not 1pcs PLU print
					11: Item service charge print
					12: Service charge print
					13: Taxed PLU print
					Other: not defined
Angle	Angle	Code	1	0~3	Clockwise rotation: Angle*90
Snap to grid	Grid	Code	1	0~9	1~9: 9 position, 0: default
Font	CFont	Code	1	3~5	Version before V2.03

Print Item	Name	Sort	Length	Number Range	Instruction
				0~9	Version after V2.03 and V2.03
X Position	S-X	Coordinate	2	0 ~ 65535	Start coordinate for print area
Y Positon	S-Y		2	0 ~ 65535	
Width	L-X	Coordinate	2	0 ~ 65535	Height and width for print area
Height	L-Y		2	0 ~ 65535	

Table 5-7 Print format:Sub-item code

Flag1		Flag2		Flag3		
Code	Content	Code	Content	Code	Content	
0	Barcode	0	Readable			Flag3 blank means no effect.
		1	Not Readable			Followed are the same
1	Item Info	0	X	0	Name	'X' in Flag2 means print all cargo in turn. If Flag2=3, it means print the information for the third accumulate cargo's
		1	1	1	Amount	
		2	2	2	Tare	
		3	3	3	First Unit Price	
		4	4	4	Payable Unit Price	
		5	5	5	Price	
		6	6	6	PLU Number	
		7	7	7	Class Number	
		8	8	8	Dept. Number	
		9	9	9	Index Barcode	
		10	10	10	Item Code	
		11	11	11	Sale Date	
		12	12	12	Sale Time	
		13	13	13	Package Date	
		14	14	14	Package Time	
		15	15	15	Shelf Date	
		...	...	16	Text 1
		18	18	17	Text 2	
		19	19	18	Text 3	
		20	20	19	Text 4	
		21	21	20	Text 5	
		22	22	21	Text 6	
		23	23	22	Text 7	
		24	24	23	Gross	
		25	25	24	Measure Unit	
		26	26	25	Price Unit	
		27	27	26	Price without Tax	
		28	28	27	Tax	
		29	29	28	Item Service Fee	
		30	30	29	Tax Rate	
		31	31	30	PLU No and Name	
2	Sale Info	0	Store Name			
		1	Device Name			
		2	Device Number			
		3	Print Date			
		4	Print Time			
		5	Add-up Times			

		6	Total Count			
		7	Total Weight			
		8	Total Price			
		9	Payment			
		10	Change			
		11	Rounding Money			
		12	Unit of Weight			
		13	Unit of Weight Price			
		14	Unit of Count			
		15	Unit of Count Price			
		16	Unit of Money			
		17	Device Postil 1			
		18	Device Postil 2			
		19	Device Postil 3			
		20	Device Postil 4			
		21	Device Postil 5			
		22	Device Postil 6			
		23	Device Postil 7			
		24	Device Postil 8			
		25	FID	0~8	Least Digital	
		26	SID	0~8	Least Digital	
		27	Net Price			
		28	Gross Price			
		29	Money of Discount and Rounding			
		30	Salesman No.			
		31	Salesman Name			
		32	Total Price without Tax			
		33	Total Tax			
		34	Waiter Number			
		35	Waiter Name			
		36	Text of Item Service Fee			
		37	Text of Service Fee			
		38	Industry Mark			
		39	Reserved 4			
		40	Reserved 5			
		41	Reserved 6			
		42	Reserved 7			
		43	Reserved 8			
		44	Service Fee			
		45	Tax of Service Fee			
		46	Service Fee without Tax			
		47	Buffer Number			
3	Const Text	0~15	0~15			Flag2 is text series number
4	Outline Border	1~24	1~24			Flag2 is outline boarder thickness
5	Partition	0	Area Flag	0 ~32	0mm~32mm	

		1	Page Print			
		2	Line Print			

5.4.7 Salesman Programme

Example 5-11 Salesman Programme

Operations	Keys	Display	Remarks
Enter programme	【Mode】	P1 Prog Parameter	
Enter salesman programme	【2】【7】	P27 Prog Edit Step 0 Salesman No. 0	
Enter 10	【1】【0】	P27 Prog Edit Step 1 Salesman Name	
Next	【→】		
Edit name			Omit the process
Next	【→】	P27 Prog Edit Step 2 Password	
Enter password	.....	
Save	【Amend】		Save Dept.
Exit	【Cancel】		

Note 1 Number 1~99 is the content for users to edit.

5.5 Assistant Data Programme

5.5.1 Steps Select of PLU Programme

Example 5-12 Steps Select of PLU Programme

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog Parameter	
Enter step selection of PLU prog	【3】【1】	P31 Prog Edit Step 0 PLU No. 0: Prog	
Select step: Item Code	【→】	P31 Prog Edit Step 1 Item Code 0: Prog	

Operations	Keys	Display	Remarks
Select step: Index Barcode	【→】	P31 Prog Edit Step 2 Index Barcode 1: Not Prog	
Enable step: Index Barcode	【0】	P31 Prog Edit Step 2 Index Barcode 0: Prog	
Select step: Unit	【→】	P31 Prog Edit Step 3 Unit 0: Prog	
Select step: U.Price	【→】	P31 Prog Edit Step 4 U.Price 0: Prog	
Select step: Cost	【→】	P31 Prog Edit Step 5 Cost 0: Prog	
Disable step: Cost	【1】	P31 Prog Edit Step 5 Cost 1: Not Prog	
Save	【Amend】		
Exit	【cancel】		

Note 1 The steps above activate steps **Index Barcode** and shield steps **Cost**. And then there is a step to input index in the programme of P23, but no step to input cost. Select Prog or Skip by pressing **【0】** or **【1】**. If Prog is selected, the step is in the programme. If Skip is selected, the step is skiped and not in programme.

Note 2 Amended content would be in effect only in PLU programme and not effective in fast-prog.

5.5.2 Steps Select of PLU Fast Programme

The processes are the same as Example 5-12 only if amended contents only work in PLU fast-prog instead of PLU programme.

5.5.3 Delete Sale Data

When entering the interfaces of delete, users would be requested to receive validate code. Validate code is 9958. Confirm and enter delete process.

Example 5-13 Delete PLU20 ~ 30

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog Parameter	

Operations	Keys	Display	Remarks
Enter delete menu	【3】【3】	P331 Prog	
Input & confirm validate code	【9】【9】【5】【8】	Parameter	
	【Confirm】	Delete Dept.	
Select to delete PLU	【3】	Input 2-1 0	
Input start number	【2】【0】【Confirm】	Input 2-2 0	
Input end number	【3】【0】【Confirm】	Please wait	
Exit	【Cancel】		

Note 1 Once confirming to delete object, users shall be requested to input 2 numbers. And system would delete data objects in the range between the two numbers. If the 2nd number is 0, the object appointed by 1st number is deleted. If 2nd number is less than 1st number, no object is deleted.

5.6 Communication and Data Update

5.6.1 Operations of files in USB flash Disk.

Data edited on PC could transfer by USB flash disk.

The software would create a file in the directory of JHSCALE when exporting a file to USB flash disk.

If users export auto-update file, the form of file is A_xxx.TMS. If the scale has set USB flash disk auto-update (factory default setting), after switch on, the scale would update the data when system detects the file in USB flash disk

In P41, press 【×】 to select auto-update file A_xxx.TMS, or input number to select numbered files from A_000.TMS to A_999.TMS (The number is file serial number). Press 【Confirm】 to load file data and update the information in the scale. Or press 【Amend】 to save scale information to appointed file.

Example 5-14 Load Files in USB Flash Disk

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog Parameter	
Enter operation of USB flash disk	【4】【1】	P41 Prog Communication U-Disk 000	

Operations	Keys	Display	Remarks
Appoint auto-update file	【×】	P41 Download Communication U-Disk xxx	
Load files	【Confirm】	P41 Download Errors 0 Bytes 0 Success 0	
Several seconds		P41 Download Errors 0 Bytes 215 Finish	
Exit	【Confirm】		
Exit	【Cancel】		

Note 1 If file is loading ends normally, system would change the state into Finish. Normally, the amount of error commands should be 0.

Note 2 If system encounters with invalid files or other serious mistakes, change the state into Error.

Note 3 In the state of Finish or Error, press any key to exit. If users want to exit midway, press **【Cancel】**.

Example 5-15 Save working data to Files in USB Flash Disk

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog Parameter	
Enter operation of USB flash disk	【4】【1】	P41 Prog Commu U-Disk 000	
Appoint numbered file	【1】	P41 Upload Commu U-Disk 001	
Save file	【Amend】	P41 Upload Success 0 Target 0 Number 0	
Several seconds		P41 Upload Success 0 Target 0 Finish	
Exit	【Confirm】		
Exit	【cancel】		

Note 1 Exporting data to files in USB flash disk may take a lot of time. Please wait.

Note 2 Press any key to exit when saving is ended. If users want to exit midway, press **【Cancel】** .

Example 5-16 Save sale list to Files in USB Flash Disk

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog Parameter	
Enter operation of USB flash disk	【4】【1】	P41 Prog Commu U-Disk 000	
Appoint numbered file	【2】	P41 Upload Commu U-Disk 002	
Save file	【PLU】	P41 Upload Success 0 Target 0 Number 0	
Several seconds		P41 Upload Success 0 Target 0 Finish	
Exit	【Confirm】		
Exit	【cancel】		

Note 1 Exporting data to files in USB flash disk may take a lot of time. Please wait.

Note 2 Press any key to exit when saving is ended. If users want to exit midway, press **【Cancel】** .

5.6.2 Ethernet Monitor Interface

Example 5-17 Enter Ethernet Monitor Interface

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Prog Parameter	
Enter Ethernet monitor interface	【4】【2】	P41 Download Errors 0 Bytes 0 Success 0	
Transfer upload and download	【×】	P41 Upload Success 0 Target 0 Number 0	
Exit	【cancel】		

Note 1 This monitor interface is usually used when the scale is set to not update in real-time on Internet.

5.6.3 RS232 Communications

The interface is similar to ethernet monitor interface. The enter way is to press **【Mode】【4】【3】** If want to process RS232 communication, must first enter this interface

5.7 Hardware Assistant

5.7.1 Validate Code

On the purpose of preventing any misoperation in important operation interfaces, users are requested to input validate code when entering these operation interfaces. The interface is shown below:

	Input	Code	0
--	-------	------	---

Validate code of this scale is 9958. When the scale requests to input validate code, users should first make sure whether this operation interface is the one you intend to enter and understand the meaning of this operation. Then input validate code and do operations.

5.7.2 Password

Password is the code to obtain the right to operate the scale. And there are 5 passwords in all.

Amend steps	Types	Password type	Permission	Original password
P511	Admin	Admin password	Hardware Assistant (P51) Sale interface Prog interface Account interface	200806 Please keep it safe if users amend it.
P512	Sale	Sale password	Sale interface	0
P513	Prog	Program password	Prog interface	0
P514	Account	Account password	Account interface	0
P515	Drawer	Drawer password	press 【open drawer】 to operate	0

Note 1 That Password is 0 means no passwords needed. Users could set the password to be 0 when canceling the password.

Note 2 Admin password is in a higher level than the other 4 passwords. Users do not need to input any password to enter all interface if admin password is 0 , no matter whether the other passwords are 0.

Note 3 If users want to protect Prog interface or Account interface, first change the admin password other than factory default, then set passwords of corresponding interfaces.

Note 4 Spec247's password hold function can let the device remember the entered password, then, user do not need to input the same password repeatedly

Example 5-18 Process of Amending Passwords

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Parameter Prog	

Operations	Keys	Display	Remarks
Enter hardware Assistant	【5】	P51 Hardware Ass Prog	If there is no change for the password, the admin password should be 200806
Input admin password	.....	Set-PW	
	【Confirm】		
Amend password	【1】	P51 Hardware Ass Prog Set Password Admin	
Amend prog password	【3】	Input Password	【1】 : Admin password 【2】 : Sale password 【3】 : Prog password 【4】 : Account password 【5】 : 【Drawer】 password
Input password	..... 【Confirm】	Input Again	
Repeat password	..... 【Confirm】		
Exit	【cancel】		

Note 1 Input password must match for two times so that password setting can be done.

5.7.3 Recover Factory Default Setting

Example 5-19 Process of Amending Passwords

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter programme	【Mode】	P1 Hardware Ass Prog	
Enter hardware Assistant	【5】	P51 Hardware Ass Prog	If user never change the password, the admin password should be 200806
Input admin password	.....	TMS Default	
	【Confirm】		
Recovery factory default	【2】	P51 Hardware Ass Prog TMS Default Parameter Default	
Select the type to amend	【4】	Please wait	Here are 4 recovery types: 【1】 Scale parameter(P1x) 【2】 default working data 【3】 all working data(P2x) 【4】 all parameters and data
Input validate code	【9】【9】【5】【8】		
	【Confirm】		
Return to sale mode	【Cancel】		

Note 1 Please pay attention to this. Execute recovery 1 or 4, and then passwords would change to factory default.

Note 2 If user amend the Spec irrelevantly, it will make scale do not work regularly, suggest user to executeP511

Note 3 P524 will let the scale recover to factory default state (all user's data will be deleted)

6 Account Operations

6.1 List of Account Interfaces

Entering to Account interface, the scale would enter a calculate process, which first calculate sale records. Then enter A1 select interface.

Table 6-1 List of Account Interfaces

Menus	Menu Prompt	Instructions	Remarks	State
A1	Total	Total report		
A11	Total Daily	Total daily report		
A12	Total Monthly	Total monthly report		
A13	Total Quarterly	Total quarterly report		
A14	Total Manual	Total manual report		
A2	Dept.	Department report		
A21	Dept. Daily	Department daily report		
A22	Dept. Monthly	Department monthly report		
A23	Dept. Quarterly	Department quarterly report		
A24	Dept. Manual	Department manual report		
A3	Class	Class report		
A31	Class Daily	Class daily report		
A32	Class Monthly	Class monthly report		
A33	Class Quarterly	Class quarterly report		
A34	Class Manual	Class manual report		
A4	PLU	PLU report		
A41	PLU Daily	PLU daily report		
A42	PLU Monthly	PLU monthly report		
A43	PLU Quarterly	PLU quarterly report		
A44	PLU Manual	PLU manual report		
A5	Clear	Clear report		
A51	Clear Manual Report	Clear current manual report information		
A52	Clear All Report	Clear all reports and records information		
A53	Clear Stock Report	Clear stock report information		
A54	Clear SID Info	Clear SID information, reset to 0		
A6	Stock	Stock report		
A61	Stock Print	Stock print		
A62	Stock Audit	Stock update		
A7	List	Sale list report		
A71	List Print	Sale list print		
A8	Salesman	Salesman report		
A81	Salesman Daily	Salesman daily report		
A82	Salesman Monthly	Salesman monthly report		
A83	Salesman Quarterly	Salesman quarterly report		
A84	Salesman Manual	Salesman manual report		

6.2 Operations of Printing Report

6.2.1 Print Total Report

Total reports are divided into total daily report, total monthly report, total quarterly report and total manual

report. Each report owns 32 buffer zones (0~31).

Take total daily report as an example: The buffer zone 0 stores total daily report of current day; buffer zone 1 stores total daily report of the last day. The rest may be deduced by analogy. So buffer zone 31 stores total daily report of the day dating back to 31 days ago.

Total monthly report and total quarterly report works in the same way, storing total report of the last x months or quarters (x=0~31).

Total manual report would take operation A51 as time point to divide the storage. The buffer zone delays a position automatically when a report is cleared (That means: Buffer 31 records the information which was stored in buffer 30. By analogy, buffer 1 record the information which was stored in buffer 0 and information stored in buffer 0 is cleared. Then start accumulating in buffer 0.).

When printing total report, system would request to input 2 numbers. And the scale would print total buffer which is added up with the buffers whose numbers are between the 2 input numbers.

Example 6-1 Print Daily Reports of Today and Yesterday

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter Account	【Mode】 【Mode】	A1 Account Total	
Enter total report	【1】	A11 Account Total Daily	【1】 : Total report 【2】 : Dept. report 【3】 : Class report 【4】 : PLU report 【8】 : Salesman report
Enter total daily report	【1】	Input 2-1	【1】 : Daily report 【2】 : Monthly report 【3】 : Quarterly report 【4】 : Manual report
Input start number	【0】【Confirm】		Start from today.
Input end number	【1】【Confirm】		End at yesterday.
			Print daily report of today. Note 4
			Print daily report of yesterday. Note 4
			Print finish
Return to sale mode	【Cancel】		

Note 1 If some buffers store no data, these buffers would be skipped off without printing.

Note 2 If end number input is 0, system would only print the buffer appointed by start number.

Note 3 If end number input is not 0 and less than start number, no buffer would be printed.

Note 4 The hints about currently print object may appear on the screen for just a few moment when system is printing.

6.2.2 Print Department Report

The scale could print report of all departments. Operation steps are similar as Print PLU Report.

Only the step to enter is different and 2 input numbers is the department numbers.

6.2.3 Print Class Report

The scale could print reports of all Classes. Operation steps are similar as Print PLU Report.

Only the step to enter is different and 2 input numbers is the class numbers.steps

6.2.4 Print PLU Report

The scale could print PLU reports whose number is less than 1000.

When printing PLU reports, system would orderly print those PLU reports whose serial numbers is between the 2 input numbers as well as the 2 input numbers.

Example 6-2 Print PLU Daily Reports with the Numbers from 10 to 20

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter Account	【Mode】 【Mode】	A1 total Account	
Enter total report	【4】	A41 PLU Daily Account	【1】 : Total report 【2】 : Dept. report 【3】 : Class report 【4】 : PLU report 【8】 : Salesman report
Enter PLU daily report	【1】	Input 2-1	【1】 : Daily report 【2】 : Monthly report 【3】 : Quarterly report 【4】 : Manual report
Input start number	【1】【0】【Confirm】		Start from PLU10.
Input end number	【2】【0】【Confirm】		End to PLU20.
			Print daily report of PLU10.
			Print daily report of PLU11.
		
			Print finish
Return to sale mode	【Cancel】		

Note 1 If some buffers store no data, these buffers would be skipped off without printing

Note 2 If end number input is 0, system would only print the buffer appointed by start number.

Note 3 If end number input is not 0 and less than start number, no buffer would be printed.

6.3 Clear Report Information

6.3.1 Clear Report Information Manually

The information in manual reports would not be cleared automatically unless users enter A51 (clear current manual report) interface to clear it. After this operation, manual reports of all departments, classes and PLU would be cleared, and total manual report would delay its serial number.

Example 6-3 Clear Information in Manual Report

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter Account	【Mode】【Mode】		
Enter clear report	【5】		
Clear manual report	【1】		
Return to sale mode	【Cancel】		

6.3.2 Clear All Reports and Records Information

Example 6-4 Clear All Reports and Records Information

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter Account	【Mode】【Mode】		
Enter clear report	【5】		
Clear manual report	【2】		
Input validate code	【9】【9】【5】【8】		
Confirm validate code	【Confirm】		
Return to sale mode	【cancel】		

Note 1 This operation would clear the records of all deals. And it's irreversible. Please operate it carefully

6.3.3 Clear stock information

Example 6-5 Clear stock information

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter Account	【Mode】【Mode】		
Enter clear report	【5】		
Clear manual report	【3】		
Input validate code	【9】【9】【5】【8】		
Confirm validate code	【Confirm】		
Return to sale mode	【cancel】		

Note 1 This operation would clear stock report. And it's irreversible. Please operate it carefully.

6.3.4 Reposition SID information

Example 6-6 Clear manual report

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter Account	【Mode】【Mode】		
Enter clear report	【5】		
Clear manual report	【4】		
Return to sale mode	【cancel】		

6.4 Stock Management

6.4.1 Stock Management

A6's stock report and A44's manual PLU report are choiceable (by Spec141) .

Stock report only support first 1000 saved PLU, if the real input PLU number >1000, the partial PLU can not process stock management

6.4.2 Stcok Print

When print stock report, it will clue to input 2 digits, scale will in turn print the stock report those PLU reports whose serial numbers is between the 2 input numbers as well as the 2 input numbers.

Example 6-7 Print stock Reports with the Numbers from 10 to 20

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter account	【Mode】 【Mode】	A1 Account Total	
Enter stock management	【6】	A61 Account Stock Print	
Enter stock print	【1】	Input 2-1	
Input start number	【1】【0】【Confirm】		Start from PLU10.
Input end number	【2】【0】【Confirm】		End to PLU20.
			Print stock report of PLU10.
			Print stock report of PLU11.
		
			Print finished
Exit	【cancel】		

Note 1 If some stock reports store no data, these buffers would be skiped off without printing

Note 2 If end number input is 0, system would only print the buffer appointed by start number.

Note 3 If end number input is not 0 and less than start number, no buffer would be printed.

6.4.3 Stock Audit

Example 6-8 Amend PLU10 stock to 100

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter account	【Mode】 【Mode】	A1 Account Total	
Enter stock management	【6】	A61 Account Stock Print	
Enter stock account	【2】	A61 Account PLU 0	

Operations	Keys	Display	Remarks
Enter PLU number	【1】【0】 【Confirm】	A61 Account PLU 10 Stock Volume 0 pcs	Pcs means default count unit. When PLU is for weight, default stockunit is scale's unit kg
Enter stock quantity 100	【1】【0】【0】	A61 Account PLU 10 Stock Volume	【Amend】 : amend stock to input number 【Confirm】 : add input number to stock 【F-Prog】 + 【Confirm】 : reduce input number from stock
Amend to the input number	【Amend】	100 pcs	
Return to sale mode	【Cancel】		

Note 1 Use **【F-Prog】 + 【PLU】** can amend the stock unit, make the weight PLU also with count stock.

Generally do not suggest user use this function. Detailed refer to Spec142

6.5 List Print

6.5.1 Sale Log

When user sale in sale interface, sale data will be recorded. This recorded data is source of all account modes' Stat. Date. Device has about 6000~10000 location according to different device's configure. When the log is being over capability, device will delete oldest log according to FIFO rule.

6.5.2 List Print

Example 6-9 Intraday List Print

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter account	【Mode】 【Mode】	A1 Account Total	
Enter list management	【7】	A71 Account List Print	
Enter list print	【1】	A71 account List Print 28	Number 28 means there are total 28 records in this printing section
Start print	【Confirm】		Wait to finish printing
Exit	【Cancel】		

Example 6-10 Appointed Time Period List Print

Operations	Keys	Display	Remarks
『Sale Idle』			
Enter account	【Mode】 【Mode】	A1 Account Total	

Operations	Keys	Display	Remarks
Enter list management	【7】	A71 Account List Print	
Enter list print	【1】	A71 Account List Print 28	Number 28 means there are total 28 records in this printing section
Enter time period	【×】	Time Start	
Enter start time	【...】	2009-07-03 00:00:00 Friday	Enter yesterday's start time
	【Confirm】	Time End	
Enter finish time	【...】	2009-07-04 23:59:59 Saturday	Enter today's finish time
	【Confirm】	A71 Account List Print 40	Device will Stat. records in printing section according to time period: 40
Start print	【Confirm】		Wait to finish the printing
Exit	【Cancel】		

7 Appendix

7.1 Reference Table For Errors and Its Instructions

Number	Alarm instructions	Methods to handle
E1.00	Alarms for operations	
E1.01	Prog data is invalid.	Input valid data again.
E1.02	Input passwords of 2 times to amend password are different	Re-amend password, and make sure 2 times input are the same.
E1.03	The selected print format do not exist	Set print format again
E1.10	Sale at 0 price is forbidden.	The sale whose sell price is 0 is forbidden. Refer to Spec070.
E1.11	Exceed the largest sale price.	Total price or grand total price of sold goods exceeds the largest sale price.
E1.12	Need to return to zero point	Return to weight zero before sale. Refer to Spec069.
E1.13	Exceed accumulative limit	The accumulative times are over buffer accumulat limit
E1.14	There is data in buffer and cannot print in single.	Print the data in buffers first. Then print this sale or switch to other buffers.
E1.15	No cashing mode, cannot executethe cashing operation.	The scale is set to be no cashing mode. Refer to Spec060.
E1.16	Cashing mode with zero change default is forbidden.	Execute cashing operation afer inputing payment amount. Refer to Spec060.
E1.17	Payment is less than sale price.	Charge enough money which is larger than sale price.
E1.23	Discounted U.Price has to be less than discount lower limit.	Discounted in allowed range, or amend the allowed range.
E1.24	Discounted U.Price has to be higher than discount upper limit.	
E1.25	Discount is forbidden.	Refer to Spec110
E1.28	T-Sale is forbidden	Refer to Spec076
E1.29	Sale of Weight PLU or count PLU is forbidden.	Refer to Spec075
E1.30	Can not enter special sale mode	Selected PLU haveconflict with special sale mode, select again
E1.31	Working on forced auto printing after zero-return. PLU Quiting is forbidden.	Finish printing of current PLU.
E1.32	Transfer sale buffer is forbidden under accumulate mode	Press 【 Confirm 】 or 【 Cancell 】 exit the accumulate mode,then go on transfer
E1.33	Transfer sale mode forbidden	Refer to Spec079
E1.34	The scanned barcode can not be parsed	Confirm the scanned PLU have been edited, interior barcode format station right
E1.36	Salesman is not exist	Login with exist personel
E1.37	Salesman's password can not be 0	Login with personel whose password is not 0
E1.38	Service charge is forbidden	Open the function at Spec307
E1.5x	Custom Product Alarm	E1.50~E1.59
E2.00	Alarms for forbiddens	

Number	Alarm instructions	Methods to handle
E2.01	Forbid F-Prog of PLU	Refer to Spec080.
E2.02	Forbid F-Prog of PLU shortcut keys	Refer to Spec081.
E2.03	Forbid F-Prog of Spec data parameters	Refer to Spec082.
E2.04	Forbid Re-print	Refer to Spec065.
E2.05	Menu quitting via pressing 【Sale】 【Prog】【Account】 is forbidden.	Quit the menu by press 【Cancel】 some times.
E2.06	A44 report forbidden	Refer to Spec141.
E2.07	A6 report forbidden	Refer to Spec141.
E2.09	Illegal reboot	Refer to Spec138.
E6.00	Alarms for peripheral	
E6.10	PTR: Print sensor calibrate wrong	Do calibrate operation with Ethernet Printer
E6.11	PTR: Gap paper is not taken away.	Take away the printed label paper. If there is still alarm this problem, do calibrate operation with Ethernet Printer
E6.12	PTR: Print mouth is not closed tight.	Install the paper and close mouth.
E6.13	PTR: Printer is working.	Please wait for a few seconds and try again.
E6.14	PTR: Lack of plain paper	Reinstall plain paper or the paper type cannot match.
E6.15	PTR: Lack of gap paper	Reinstall label paper or the paper type cannot match. If there is still alarm this problem, do calibrate operation with Ethernet Printer
E6.16	PTR: The printer cannot find the gap intervals.	The paper type cannot match and change the type to plain paper or reinstall gap label paper. If there is still alarm this problem, do calibrate operation with Ethernet Printer
E6.17	PTR: The printer cannot find gap alignment positions.	Label paper is used up or paper type cannot match with set paper type. Please reinstall label paper.
E6.18	PTR: The printer is overheated and it needs to cool down.	Please wait for a few seconds and try again.
E6.19	PTR: There is no response of the printer.	The printer may not be connected or in the state that the printer could not print.
E6.20	PTR: Print sensor calibrate wrong	Printer process do not follow general time order and finish the working, unknown print error
E6.21	PTR: Communication Error	Checkup the Ethernet cable
E7.00	Alarms for hardwares	
E7.01	Some keys are pressed when the scale starts.	Please confirm that no keys are pressed. In this interface, the last window display pressed keys. 8-5 means the key in 8 th column from the left and 5 th row from the top is pressed. In this interface, the second window displays the calibrated times.
E7.12	Print mouth is not closed tight.	Install the paper and close mouth.
E7.13	Printer is working.	Please wait for a few seconds and try again.
E7.14	Lack of plain paper	Reinstall plain paper or the paper type cannot match.

Number	Alarm instructions	Methods to handle
E7.17	The scale cannot find gap alignment positions.	Label paper is used up or paper type cannot match with set paper type. Please reinstall label paper.
E7.18	The printer is overheated and it needs to cool down.	Please wait for a few seconds and try again.
E7.19	There is no response of the printer.	The printer may not be connected or in the state that the printer could not print.
E7.20	The printer over time	Printer process do not follow general time order and finish the working, unknown print error
E7.23	PDS calibration failed, ignore PDS	Try reclibrate, this failure will not effect general use
E7.30	Alarm for full storage of deals records.	Enter Account interface. Calculate reports and then clear the reports.
E7.40	Time error	Time module error, if scale work for years, then it means to change the battery on main board
E7.50	Harware error	Inside examine and repair code, if restart again andagain, but still exist this question, need return to factory for repair
E7.51		
E7.52		
E7.53		
E7.54	Font file check error	Download font from Software again.
E7.61	No MAC device	Please ask Service for MAC file.
E7.62	Wire-Network module do not exist or working irregular	If no wire-network module in present scheme, please close the network module (Set Spec043=0) .
E7.63	Wireless-Network module do not exist or working irregular	If no wireless-network module in present scheme, please choose wire-network module (Set Spec050=0) .
E7.70	AD work irregular or loadcell irregular	Confirm loadcell install right
E7.81	DC power is too low	If device is working with battery, please charge it first. If user confirm that power is right, please set Spec235=1 to close the power detect module
E7.82	DC power is too high	If device is working with battery, it means battery is not match with the device. If user confirm that power is right, please set Spec235=1 to close the power detect module
E8.00	Alarms for communications	
E8.11	USB flash disk port do not connect with the scale.	Please confirm that the scale used owns U-Disk port. If it owns, and this alarm cannot be cleared after several times' reboot, please use the guarantee.

Number	Alarm instructions	Methods to handle
E8.12	USB flash disk does not exist.	Please confirm that USB-Disk is correctly inserted with two condition: 1. USB-Disk is formatted in FAT12/16/32. NTFS is not supported by device. 2. USB-Disk is bootloaded as FDD. HDD/ZIP are not supported by device.
E8.13	The file in USB flash disk does not exist.	Confirm that appointed files are inside of USB flash disk.

7.2 Definitions of Spec data parameters

The default number is only for reference, different function and versiondevice will have some difference.

No.	Content	Range	Remarks	Default	Permission
0	Bill 1: Item Print Format	0~99	0 means not to print, 1~99 are to print in appoint Print formats.	1	0
1	Bill 1: Item Barcode Format	0~99	0 means not to print, 1~99 are to print in appoint barcode formats.	2	0
2	Bill 1: Item Barcode flag	0~9999999		20	0
3	Bill 1: Item Print Times	0~99		1	1
4	Bill 1: Item Print Reverse	0~1	0: No Reverse, 1: Print 180° Reversed	0	1
5	Bill 1: Sum Print Format	0~99	0 means not to print, 1~99 are to print in appoint Print formats.	4	0
6	Bill 1: Sum Barcode Format	0~99	0 means not to print, 1~99 are to print in appoint barcode formats.	7	0
7	Bill 1: Sum Barcode Flag	0~9999999		2099999	0
8	Bill 1: Sum Item Print Times	0~99		1	1
9	Bill 1: Sum Print Reverse	0~1	0: No Reverse, 1: Print 180° Reversed	0	1
10	Bill 2: Item Print Format	0~99	For the second-class Print formats, ordinary users won't use them. Please don't amend them in normal conditions.	0	1
11	Bill 2: Item Barcode Format	0~99		0	1
12	Bill 2: Item Barcode Flag	0~9999999		0	1
13	Bill 2: Item Print Times	0~99		0	1
14	Bill 2: Item Print Reverse	0~1		0	1
15	Bill 2: Sum Print Format	0~99		0	1
16	Bill 2: Sum Barcode Format	0~99		0	1
17	Bill 2 Sum Barcode Flag	0~9999999		0	1
18	Bill 2: Sum Item Print Times	0~99		0	1
19	Bill 2: Sum Print Reverse	0~1		0	1
20	Print Speed Slow Down	0~99	Reduced % of paper speed	0	1
23	Gray Level of Plain Paper	0~15	0 is lightest, 9 is darkest. The print lighter, the damage to print header smaller.	5	0
24	Plain Paper: Interval of Each Print	0~99	Unit of setting number is mm.	0	0

No.	Content	Range	Remarks	Default	Permission
25	Plain Paper: Cut-off Position	0~99		35	0
26	Plain Paper: Pre-feed Distance	0~1999	Unit of setting number is dot. Device is reverse feed if number > 1000	16	0
27	Wide of Report Printing	0~99	Unit of setting number is mm.	50	0
28	Font for Report Print	0~2		1	1
29	Heat Protect	0~30	Continuously print appointed time will enter over-heat protect, Please don't amend it.	5	1
30	Feed Sensor Position	0~255	Hardware properties. Please don't amend them without the guidance of professionals.	180	1
31	Narrow Bar Dot Number of Barcode	0~9	0 for Default	0	1
32	Wide Bar Dot Number of Barcode	0~19		0	1
33	Font of Barcode readable character	0~2		0	1
34	Weighing's Anti-shake while Printing	0~19	Hardware property, Please don't amend them without the guidance of professionals.	3	1
35	Auto New Line Mode	0~1	0: Forbidden; 1: Allowed	0	1
36	ITF25 frame mode	0~2	0: No frame; 1: Up and down frame; 2: Around frame	1	1
37	ITF25 frame width	0~31	Frame dots	8	1
38	ITF25 left and right blank width	0~31	Left and right blank dots	20	1
40	Device Number	0~9999999	They are used to distinguish more than one scale. And they can be printed.	0	0
41	RS232 Baud Rate	0~9	0: 300, 1: 600, 2: 1200, 3: 2400, 4: 4800, 5: 9600, 6: 19200, 7: 38400, 8: 57600, 9: 115200.	5	0
42	USB flash disk Auto Update	0~1	0: No Update, 1: Auto Update	1	0
43	Ethernet Mode	0~2	0: Disable; 1: Server Mode; 2: Client Mode	1	0
44	Ethernet Auto Re-connect	0~65535	0: do not try connect again 1~65535: Device will try to connect with PC each appointed second	0	0
45	Ethernet Auto Reboot if Configure Changed	0~1	0: Disable, only reset change Ethernet config. 1: Enable, Ethernet config apply immediately.	1	1
46	Latency Time of USB Linking	0~99	0: Default wait 2s; 1~99: wait 0.1s--9.9s. Suggest clients keep the default set. If some U-disk start slowly, you can try to change the waiting time for longer	0	1
47	USB Power Always ON	0~1	1: Enable	0	1
48	Ethernet Overtime Interval	0~31	Single overtime seconds, over 5 times overtime, Ethernet will disconnect	10	1
49	Password Authorization	0~1	0: Device Operation Only 1: Communication Operation Allowed	0	1
50	Ethernet Type (Need Reset)	0~1	0: Wire-Network; 1: Wireless-Network	0	1
51	Security Mode	0~2	0: No Security; 1: WEP; 2: WPA/WPA2	1	1
52	Security Option	0~1	0: Open System; 1: Shared Key	1	1

No.	Content	Range	Remarks	Default	Permission
53	Domain Type	0~6	0: FCC; 1: IC; 2: ETSI; 3: Spain; 4: France; 5: JapanA; 6: JapanB	2	1
57	RS232 POS Protocol	0~99	Refer to POS Protocol File	0	1
59	Sale Log Auto Save	0~1	1: Sale Log Auto Save to USB-Disk in Account	0	1
60	Cashing Mode	0~3	0: No Cashing Mode, 1: Cashing Mode With Zero Change Default, No Display For Zero Change, 2: Cashing Mode With Zero Change Default, Always Display For Zero Change, 3: Cashing Mode Without Zero Change Default.	1	0
61	Drawer In Sale Operation	0~3	0: Not Open Drawer, 1: Open Drawer 1, 2: Open Drawer 2, 3: Open Drawer 1 and 2.	3	0
62	Press 【Drawer】 in Sale	0~3	For general scale, only drawer 1 is valid, if user have double drawer request, please contact us. The added drawer password only limit the 【Drawer】 operation, open the drawer while printing is not limited	3	0
63	Press 【Drawer】 in Prog	0~3		3	0
64	Press 【Drawer】 in Account	0~3		3	0
65	Reprint	0~4	0: Reprint Forbidden 1: Print One Piece of Bill 1 2: Print One Piece of Bill 2 3: Print Each Piece of Bill 1 and 2 4: Print Bill 1 and 2 as Sale Operation	3	1
66	Change Display Exit	0~99	0: Push Any Key For Exit, 1~99: Auto Quit Exit Specified Second	0	0
69	Zero-Return For Weight Sale	0~2	0: Always need Zero-Return; 1: Zero-Return is need if Weight Changed; 2: No Zero-Return need, Print "*" before weight	1	0
70	Allowed Zero Purchase	0~1	0: Forbid; 1: Allow	0	1
74	Return of Goods	0~1	0: Forbid, 1: Allow.	0	0
75	PLU forbidden	0~3	0: No forbidden; 1: Weight PLU forbidden; 2: Count PLU forbidden; 3: All PLU forbidden.	0	1
76	T-Sale PLU transfer forbidden	0~3	0: No forbidden; 1: T-Sale Weight PLU forbidden; 2: T-Sale Count PLU forbidden; 3: All T-Sale PLU forbidden;	0	1
80	PLU Fast-Prog	0~1	0: Forbid, 1: Allow.	1	0
81	ScPLU Fast-Prog	0~1	0: Forbid, 1: Allow.	1	0
82	Spec Fast-Prog	0~1	0: Forbid, 1: Allow.	1	0
83	Unit Price Fast-Prog 【-@】 or 【@Price】	0~3	0: Forbid; 1: long press【-@】 change PLU saved unit price 2: press 【-@】 change PLU default unit price 3: press【-@】change PLU default unit price, long press to enter PLUsaved name edit menu	1	1

No.	Content	Range	Remarks	Default	Permission
87	Dummy PLU	0~1	0: Disable 1: Use dummy PLU, when try to transfer one do not exist PLU, device will use this PLU number or other PLU item empty way to transfer a dummy PLU. For example:: PLU156 do not exist, when transfer, you will get a cargo name PLU-0156 's PLU.	0	1
88	Dummy ScPLU	0~1	0: Disable 1: use dummy ScPLU, if one shout cut key have been edited, then when it is transferred, scale will transfer PLU according to its short cut code. 【SC1】refer to PLU101, 【Shift】【SC1】refer to PLU201. Etc.	0	1
89	Step-skip of PLU Fast-Prog Equal to PLU Prog	0~1	0: Disable; 1: Enable, P331 and P332 do same effect	1	1
90	Calculating Account Backgroud	0~1	Allow the scale to calculate report data in background. Suggest clients do not edit this item	1	1
91	Log record function	0~1	0: Enable, 1: Disable	0	1
92	Dummy PLU number	0~1	0: use old version, PLU is 10~5999 1: PLU is 1~9999999, temporary PLU number decided by Spec093 and 096	1	1
93	Dummy number for Temporary weight PLU	0~9999999	Refer to Spec092	9999999 9	1
94	Dummy number for Temporary count PLU	0~9999999		9999999 8	1
95	Dummy number for Service Charge PLU	0~9999999		9999999 7	1
96	Dummy number for Discount & Rounding PLU	0~9999999		9999999 6	1
97	Index barcode from keyboard	0~2	0: Forbidden; 1: Allow use number index 2: Allow use number and character index	1	1
98	Single count deal: discount sum and rounding sum'smanage	0~5	0: Not Record 1: Independent Record Discount, No Rounding 2: Separate Record Discount, No Rounding 3: Independent Record Discount and Rounding	3	1
99	Accumulate deal: discount sum and rounding sum'smanage	0~5	4: Independent Record Discount, Separate Record Rounding 5: Separate Record Discount and Rounding	3	1
100	Rounding Method for Single Total Price	0~1	0, Common Rounding For Redundancy Digit 1, Common Rounding For Last Digit 2, Common Rounding For Last 2 Digits 3, Banker's Rounding For Redundancy Digit 4, Banker's Rounding For Last Digit	0	0

No.	Content	Range	Remarks	Default	Permission
101	Rounding Method for Sum Tota Pricel	0~11	5, Banker's Rounding For Last 2 Digits 6, Rounding Down For Redundancy Digit 7, Rounding Down For Last Digit 8, Rounding Down For Last 2 Digits 9, Rounding to 0/5 For Last Digit 10, Rounding to 0/5 For Last 2 Digits 11, Rounding to 0/5 For Last 3 Digits	0	0
102	Print with accumulated data	0~1	0: Enable, 1: Disable	0	1
104	Date Type	0~5	0: YYYY.MM.DD; 1: YY.MM.DD 2: MM/DD/YY; 3: MM-DD-YY 4: DD/MM/YY; 5: DD-MM-YY	0	1
105	Shelf Day Print	0~2	0: Using PLU setting 1: Shelf Printing based-on Spec106 if PLU Do not set Shelf Day 2: Shelf Printing based-on Spec106	0	0
106	Shelf Days	0~999	Shelf life days after intraday. 0 means only for intraday	0	0
107	Number of Sale Buffers	0~99	0: maximum allowed buffer	0	0
108	Number of Maximum Accumulate	0~65535	0: maximum allowed accumulate	0	0
109	Divide Operation of U.Price	0~1	0: Normal Operation; 1: Divide Operation	0	Not open
110	Manual Discount: Forbidden	0~3	0, All Allowed 1, Forbidden U.Price Discount 2, Forbidden T.Price Discount 3, Forbidden All Discount	0	1
111	Manual Discount: Lower Limit (Percent Number)	0~255	0: no lower limit, discount freely; 1~99: Take the percent of U.Price as the lower limit of the discount. 100~255: Don't allow the price after manual discount is lower than original U.Price.	0	0
112	Manual Discount: Upper Limit (Percent Number)	0~255	0: no upper limit, discount freely; 1~100: Don't allow the price after manual discount is higher than original U.Price. 101~255: Take the percent of U.Price as the upper limit of the discount.	0	0
113	Percent Discount Arithmetic	0~1	0: Subtractor, 1: Addition	0	1
114	Auto Percent Discount Rate	0~99	0: Manual input number 1~99: Discount with this number	0	1
115	Auto Discount: Price Lock	0~3	0: No Auto Discount 1: Price Lock if Auto Discount Is Effective 2: Price Lock If Auto Discount Is Setting 3: Price Lock for All PLU Price Discount disable when price is tracking.	1	1

No.	Content	Range	Remarks	Default	Permission
116	Global Tax Sort	0~3	0: No global tax rate 1: Default is exclude Tax with Excluded Rate 2: Default is include Tax with Excluded Rate 3: Defaultx with included Rate	1	0
117	Global tax rate (‰)	0~9999	0.01% tax rate, for 17%, need input 1700	1	0
118	Amend mode in sale	0~2	0: Manual; 1: Record and clear 2: Not record and clear	0	1
119	Scanner checkout	0~2	0: Not checkout, ignore reduncdance information 1: Checkout, ignore reduncdance information 2: Checkout, not ignore reduncdance information	2	1
120	Bar code match calculation	0~3	0: Do nothing 1: Deal with External Barcode (Index mode) 2: Deal with Internal Barcode (Code mode) 3: Deal with all mode	3	1
121	Deal method with code=0	0~2	0: Search user PLU 1: Deal with By-Weight T-Sale PLU 2: Deal with By-Count T-Sale PLU	1	1
122	Internal Barcode 1: Format	0~99	Group 1 interior bar code format, if Spec122=0, device auto use Spec1 and Spec2 as Group 1 interior bar code format	0	0
123	Internal Barcode 1: Flag Number	0~9999999		0	0
124	Internal Barcode 2: Format	0~99	Group 2 interior bar code format	0	1
125	Internal Barcode 2: Flag Number	0~9999999		0	1
126	Internal Barcode 3: Format	0~99	Group 3 interior bar code format	0	1
127	Internal Barcode 3: Flag Number	0~9999999		0	1
128	Internal Barcode 4: Format	0~99	Group 4 interior bar code format	0	1
129	Internal Barcode 4: Flag Number	0~9999999		0	1
130	Total Price Masked before Printing	0~1	0: Not enable 1: Enable. Total Price only displays after printing	0	1
131	Auto Printing after Zero-return	0~4	0: Not enable. 1: Auto record after Zero-return. Can press 【Cancel】 to exit, do not record after exit 2: Forced auto record after Zero-return. Force operator to print the trade or take record. 3: Auto Printing after Zero-return. Can press 【Cancel】 to exit, do not record after exit 4: Forced Auto Printing after Zero-return. Force operator to print the trade or take record.	0	1
132	Accu Mode: Transferring PLU by Key Input	0~1	0: Disable 1: Enable	0	1

No.	Content	Range	Remarks	Default	Permission
133	Accu Mode: Transferring PLU by External Barcode	0~1		1	1
134	Accu Mode: Transferring PLU by Internal Barcode	0~1		1	1
135	Salesman mode	0~5	0: No salesman mode, log in with salesman 0. 1: Login V1~V4 with Salesman 1~4, No password 2: Password Enable, V1~V4 by Same Salesman 3: Password Enable, V1~V4 by Different Salesman 4: Password Enable, V1~V4 by Same Salesman, Pass=0 Salesman Cannot login 5: Password Enable, V1~V4 by Different Salesman, Pass=0 Salesman Cannot login	1	0
136	Waiter Mode	0~2	0: Disable 1: Enable, Forbidden dummy personnel 2: Enable, Allowed dummy personnel	0	1
137	Waiter Memory Mode	0~2	0: Always clear; 1: Memory last one 2: Memory in buffer	0	1
138	Right of Default Salesman	0~65535	Please use software	0	1
139	EAN/UCC CRC	0~1	0: Standard, 1: Non-standard	0	1
140	SID auto clear	0~6	0: Disable; 1: Half day clear(12:00 and 0:00) 2: Each day clear; 3: Each Saturday clear 4: Each Monday clear; 5: Each month clear 6: Each quarter clear	2	1
141	Stock report	0~1	0: Disable(A44 Report Enable) 1: Enable(A44 Report Disable)	1	1
142	Stock change unit mode	0~2	0: Only PLU's Unit Allowed 1: Default By-Weight Unit and By-Count Unit Allowed 2: All System Unit Allowed	1	1
143	FID/SID Print Mode	0~9	0: Print as number 1~9: Print in specified length with '#'	6	1
144	Each Item has Indentify FID	0~1	0: Forbidden; 1: Enable.	0	1
145	Print extra info in report	0~65535	+1: Print Picture 1; +2: Print global text 0 +4: Print global text 1; +8:.....	0	1
150	Scale's Ethernet IP	0~255	When Spec153 is 0, device will connect to network by DHCP. Otherwise use appointed IP to connect the network	192	0
151		0~255		168	0
152		0~255		0	0
153		0~255		0	0
154	PC's Ethernet IP	0~255	When the network under clients state(Spec043=2) , appoint PC's IP.	0	0
155		0~255		0	0
156		0~255		0	0
157		0~255		0	0
158	Scale's Ethernet gateway	0~255	Gateway: not use DHCP to connect to network	192	0
159		0~255		168	0
160		0~255		0	0

No.	Content	Range	Remarks	Default	Permission
161		0~255		1	0
162	Scale's Ethernet mask	0~255	Gateway: not use DHCP to connect to network	255	0
163		0~255		255	0
164		0~255		255	0
165		0~255		0	0
170	Primary DNS	0~255	Primary DNS for dns analysis	8	0
171		0~255		8	0
172		0~255		8	0
173		0~255		8	0
166	Scale's server port	0~65535	Do not change such setting unless there are expert! Irrelevant change will make the network do not work	33581	1
167	Scale's clients port	0~65535		33582	1
168	Scale's UDP local port	0~65535		33583	1
169	Scale's UDP remote port	0~65535		33584	1
180	Display and Printing of Radix Point	0~1	0: Dot'.'; 1: Comma','	0	2
181	Printing of Kilocharacter	0~3	0: Not printing; 1: Dot'.'; 2: Comma','; 3: Quotation Mark' ''	0	2
182	Display of Kilocharacter	0~1	0: Not display; 1: Display based on Spec181	0	2
185	Unit Printing of Weight	0~1	0: No printing; 1: Printing	0	1
186	Unit Printing of Unit Price	0~1	0: No printing; 1: Printing	0	1
187	Unit Printing of Money	0~1	0: No printing; 1: Printing	0	1
188	Unit Price Length	0~6	0: Use System Length; 1~6: Specified Length	0	1
189	Total Price Length	0~7	0: Use System Length; 1~7: Specified Length	0	1
196	Decimal Point of Count In Barcode Print	0~5	Similar as spec208	3	1
200	Decimal Point: Tare	0~3	In default state, decimal digits of tare.	3	1
201	Decimal Point: Weight	0~3	In default state, decimal digits of weight.	3	1
202	Decimal Point: U.Price	0~5	In default state, decimal digits of U.Price.	2	1
203	Decimal Point: T.Price	0~5	In default state, decimal digits of T.Price.	2	1
204	Decimal Point Fix: Tare	0~1	Fix display decimal point according to Spec200	0	1
205	Decimal Point Fix: Weight	0~1	Fix display decimal point according to Spec201	0	1
206	Decimal Point Fix: U.Price	0~3	Fix display decimal point according to Spec202 0: No Fix; 1: Fix for Discount; 2: Fix for PLU Call Out; 3: Always Fix.	3	1
207	Decimal Point Fix: T.Price	0~2	Fix display decimal point according to Spec203. 0: No Fix; 1: Fix based on Spec100; 2: Common rounding before fix based on Spec100	1	1
208	Decimal Point of Weight In Barcode Print	0~5	For number 1.533, if number here is 2, print 153 when print barcode. If number here is 3, print 1533. The rest may be deduced by analogy. Generally suggest Spec208=Spec201, Spec209=Spec203	3	1
209	Decimal Point of Money In Barcode Print	0~5		2	1

No.	Content	Range	Remarks	Default	Permission
211	System U.Price Unit	0~8	0, 1, 2: System Default; 3: kg Unit; 4: g Unit; 5: ton Unit; 6: lb Unit; 7: 500g Unit; 8: 100g Unit;	0	1
212	System Weight Unit	0~8	There are some relations among 3 units. Relations are a little different in different editions because the measuring systems are different in different countries.	3	1
235	Power Detect Module	0~1	0: Enable; 1: Disable	0	1
236	Print in Battery Mode	0~1	0: Print; 1: Not print	0	1
237	Interval of Key Scanner	0~4	Hardware parameter	1	1
238	Anti-shake of Key Scanner	0~4	Hardware parameter	1	1
239	Time for open drawer	0~9999	0~9999ms. Default 100ms	100	1
246	Ignore PPS Sensor	0~1	Use to oblige eliminate error E7.14	0	1
247	Password hold function	0~3	Password is memoried and no need to input again once it is input. Memory is cleared on restart or parameter amend. 0: Not hold any password 1: Only hold drawer password 2: Hold all password except admin password 3: Hold all password	0	1
249	PLU Text Mode: PLU Text Length \approx Total Length-150	0~4	0: Default 1: 256 Bytes Mode; 2: 512 Bytes Mode 3: 1024 Bytes Mode; 4: 2048 Bytes Mode	0	1
250	No-Accumulation Mode 【Accu】 is Doing Same Operation as 【Print】	0~1	0: Disable this mode 1: Enable this mode	0	1
251	Discount Menu of Unit Price	0~4	0: Disable discount menu 1: Enable, default mode is based on 【Key】 2: Enable, default mode is PERCENT mode	0	1
252	Discount Menu of Total Price	0~4	3: Enable, default mode is MINUS mode 4: Enable, default mode is FIX mode	0	1
253	Call PLU by “Item-Code” when Press 【PLU】	0~1	0: Based on PLU number 1: Based on PLU Item-Code	0	1
254	Auto 【PLU】 Function	0~3	0: Disable; 1: Enable in idle mode 2: Enable in PLU mode; 3: Enable in all mode	0	1
255	Digit number for auto 【PLU】	0~7	0: Disable 1~7:Auto 【PLU】 after digitals number inputted	0	1
256	Pre-Print Function	0~1	0: Disable; 1: Enable	1	1
260	Need Admin Password In Certain Mode	0~31	0: Normal; +1: Sale; +2: Prog +4: Account; +8: 【Drawer】 ; +16: Unit Price	0	1
263	Call PLU automatically in Idle status	0~999999 99	In idle status, device will call specified PLU automatically	0	1
264	AUTO MODE transaction record as “Auto”, not “Sale”	0~15	+1: Batch Print; +2: Prepack; +4: Lock PLU; +8: Auto Print	0	1
265	Date Print Mode:Month	0~1	0: Digits; 1: Two Characters	0	1

No.	Content	Range	Remarks	Default	Permission
266	Date Display Mode	0~1	0: Default; 1: Using Spec104 and 265	0	1
267	Fast Switch with Weight Unit	0~1	0: Default; 1: Forbidden Non-Standard	0	1
268	Auto Tare Lock	0~1	0: Default; 1: Auto Lock	1	1
269	Print Forbidden	0~1	1: Forbidden Print Model	0	1
270	Weight Display Hidden	0~2	0: Disable; 1: Enable if No PLU; 2: Enable if No Unit Price	0	1
271	Auto Upgrade	0~1	0: Disable; 1: Enable	0	1
274	Maximum PLU Number	0~999999 99	0 Means no limit	999999 4	1
275	Uniscribe Script	0~2	0: Disable, 1: RTL in LTR, 2: LTR in RTL	0	1
277	Default Working Mode	0~2	0: Normal; 1: Batch Print; 2: PrePack; 3: Lock PLU; 4: Auto Print.	0	1
278	Hangup Bill Print Format	0~99	0: default; 1~99: specified print format	0	1
279	Hangup and Loadback	0~3	0: Forbidden; 1: Only hangup bill can be load once; 2: Only hangup bill can be load, no times limit; 3: All bill can be load	0	1
280	Salesman authorization	0~1	0: Forbidden; 1: Enable	0	1
282	Payment Operation Forbidden	0~63	0: all enable, 1~63: Please use software	0	1
283	Record of Unconfirmed Data	0~2	0: Disable; 1: Record Priced Operation; 2: Record Priced/Weighted Operation	1	1
287	non-VIP Discount Off	0~99	Percent-Off	0	1
288	VIP Default Discount Off	0~99	0:Same as Spec287, 1~99: Specified Percent Off	0	1
289	Other Transaction Print Format	0~99	0: Default; 1~99: Specified Print Format	0	1
290	Log Text 1	0~14	(Need Special Firmware Version) 0: Blank; 1: PLU Name; 2~8: PLU Text1-7; 9: Item Code; 10: Index Barcode; 11~14: Custom Info 1~4	0	1
291	Log Text 2	0~14		0	1
292	Log Text 3	0~14		0	1
293	Log Text 4	0~14		0	1
294	Keep Custom Info	0~15	0: Auto Clear Custom Info1~4; +1:Keep Custom Info 1; +2:Keep Custom Info 2 +4:Keep Custom Info 3; +8:Keep Custom Info 4	0	1
297	Second Currency Exchange	xxx	Please use software	0	1
298	Second Currency Decimal Dot	0~5	Decimal dot position	0	1
299	Default stable arithmetic	0~3	0: Default; 1: desk scale; 2: platform scale; 3 hanging scale	0	1
300	Item Service Fee	0~2	0: Forbidden 1: Allowed, not collect total percent again 1: Allow, collect total percent again	0	1
301	Item Service Fee: Default Method	0~2	0: Unit price mode; 1: Total price mode; 2: Percent mode	0	1

No.	Content	Range	Remarks	Default	Permission
302	Total Service Fee: Input Method	0~5	0: Manual call, manual input price 1: Manual call, manual input percent 2: Manual call, take auto price 3: Manual call, take auto percent 4: Auto call, take auto price 5: Auto call, take auto percent	0	1
303	Total Service Fee: Auto collect based number	0~9999999	Under price mode, auto account according to price decimal point Under percent mode: unit is ‰	0	1
304	Service Fee: Percent Collection based Number	0~1	0: Based on price before tax 1: Based on price after tax	0	1
305	Tax Sort of Service Fee	0~3	0: No global tax rate 1: Default is exclude Tax with Excluded Rate 2: Default is include Tax with Excluded Rate 3: Defaultx with included Rate	0	1
306	Tax Rate of Service Fee (‰)	0~9999	0.01% tax rate, for 17%, need input 1700	0	1
307	Service Fee Permission	0~1	0: Forbidden, 1: Allowed	1	1
308	Service Fee Re-Input	0~1	0: Forbidden, 1: Allowed	1	1
340	Dot matrix LCD's contrast	0~7	Do not change these settings.	6	1
341	Dot matrix LCD's brightness	0~31		7	1
	(PTR, parameters setting for network printer)				
350	PTR: Item print format	0~99	0 means print according to bill 1 format (once using bill 1 format, the barcode format and signals are all according to bill 1)	0	0
351	PTR: Item barcode format	0~99		0	0
352	PTR: Item barcode flag	0~9999999		0	0
353	PTR: Item print Times	0~99		1	1
354	PTR: Item print Reverse	0~1	0: No Reverse, 1: Print 180° Reversed	0	1
355	PTR: Sum Print Format	0~99	0 means print according to bill 1 format (once using bill 1 format, the barcode format and signals are all according to bill 1)	0	0
356	PTR: Sum Barcode Format	0~99		0	0
357	PTR: Sum Barcode Flag	0~9999999		0	0
358	PTR: Sum Item Print Times	0~99		1	1
359	PTR: Sum Item Print Rol	0~1	0: No Reverse, 1: Print 180° Reversed	0	1
360	PTR: network print function	0~3	0: Disable 1: Enable, wait till printing finished 2: Enable, wait till printing started 3: Enable, wait till data sending finished	1	1

No.	Content	Range	Remarks	Default	Permission
361	PTR: printer status clew	0~3	0: No operation 1: Online/offline clew 2: Online/offline clew, alarm when there is no rating printing 3: Online/offline clew, error when there is no rating printing	1	1
362	PTR: rating number for printer	0~20	Alarm or error if less than rating number	0	1
363	PTR: check interval	0~65535	Unit: second, default for 10s	0	1
364	PTR's IP: No.1	0~255		0	0
365		0~255		0	0
366		0~255		0	0
367		0~255		0	0
368	PTR's IP: No.2	0~255		0	0
369		0~255		0	0
370		0~255		0	0
371		0~255		0	0
372	PTR's IP: No.3	0~255		0	0
373		0~255		0	0
374		0~255		0	0
375		0~255		0	0
376	PTR: Server Socket	0~65535	Do not change such setting unless there are expert! Irrelevant change will make the network printer do not work	33591	1
377	PTR: Client Socket	0~65535		33592	1
378	PTR: UDP Local Socket	0~65535		33593	1
379	PTR: UDP Remote Socket	0~65535		33594	1
400	PTR: Print speed decrease	0~99	Reduced % of paper feed speed	0	1
401	PTR: Paper Type	0~1	0: Plain Paper, 1: Gap Paper.	0	0
402	PTR: Gray Level of Gap Paper	0~9	0 is lightest, 9 is darkest. The print color lighter, the damage to print header smaller. Suggest users use lighter grey level.	7	0
403	PTR: Gray Level of Plain Paper	0~9		7	0
404	PTR: Plain Paper: Interval of Each Print	0~99	Set the unit of number is mm. 0 means use default set	0	0
405	PTR: Plain Paper: Cut-off Position	0~99		0	0
406	PTR: Plain Paper: Pre-feed Distance	0~1999	Unit of setting number is dot. Device is reverse feed if number > 1000	0	0
407	PTR: Paper width	0~99		0	0
408	PTR: Default font	0~2		1	1
409	PTR: Printer over-heat protect	0~30	Continuously print appointed time will enter over-heat protect, Please don't amend them without the guidance of professionals.	0	1
410	PTR: Feed Sensor Position	0~255	Hardware properties. Please don't amend them without the guidance of professionals.	180	1

No.	Content	Range	Remarks	Default	Permission
411	PTR: Point numbers for narrow bar in barcode printing	0~9	0 for default set, Please don't amend them without the guidance of professionals.	0	1
412	PTR: Point numbers for wide bar in barcode printing	0~19		0	1
413	PTR: Readable character fonts in barcode printing	0~2		0	1
415	PTR: Auto new line mode	0~1	0: One line mode; 1: Auto new line mode	0	1
416	PTR: ITF25 barcode frame mode	0~2	0: No frame; 1: Up and Down frame; 2: Around frame	1	1
417	PTR: ITF25 barcode frame width	0~31	Frame dots	8	1
418	PTR: ITF25 barcode left and right blank width	0~31	Left and right blank dots	20	1
419	PTR: Gap Paper: Pre-feed Distance	0~1999	Unit of setting number is dot. Device is reverse feed if number > 1000	0	0
420	PTR: Ignore PBS Sensor	0~1	Use to force remove error E6.12	0	1
421	PTR: Ignore PDS Sensor	0~1	Use to force remove error E6.11	0	1
422	PTR: Ignore PPS Sensor	0~1	Use to force remove error E6.14	0	1
450	PDF417: Checksum Level	0~9	0~8: Fix level; 9: System default level	9	1
451	PDF417: Columns Number	0~30	0: Auto sizing, 1~30: Fix number	0	1
452	PDF417: Rows Number	0~90	0~2: Auto sizing, 3~90: Fix number	0	1
453	PDF417: Bar Width	0~6	0: Default 3	0	1
454	PDF417: Bar Height	0~18	0: Default 6	0	1
455	QR: Check Level	0~3		1	1
456	QR: Version	0~31	QR Minimum Version	0	1
457	QR: Bar Size	0~6	0: Default=3	0	1
480~499	Custom Version Reserved Spec				

7.3 Definitions of String Parameters

Number	Hint	Text content	Default print format
0	ShopN	Store Name	Print: header center
1	ScaleN	Device Name	Not use
2	MnyPre	Prefix of Money Unit	
3	MnySuf	Suffix of Money Unit	
4	Strg-1	Bill text 1	Print: header center
5	Strg-2	Bill text 2	Print: header left
6	Strg-3	Bill text 3	Print: header center
7	Strg-4	Bill text 4	Print: header left
8	Strg-5	Bill text 5	Print: end center
9	Strg-6	Bill text 6	Print: end left
10	Strg-7	Bill text 7	Print: end center
11	Strg-8	Bill text 8	Print: end left
12	Spst-1	Special text 1	Reserved

13	Spst-2	Special text 2	Reserved
14	Ind-MK	Industry Mark	Industry Mark
15	W-SSID	Wireless SSID	Wireless SSID
16	W-PASS	Wireless Password	Wireless Password
17	Spst-6	Special text 6	Reserved
18	Spst-7	Special text 7	Reserved
19	Spst-8	Special text 8	Reserved

7.4 Definitions of Shortcut Function Key

1	Number:0	2	Number:1	3	Number:2	4	Number:3	5	Number:4	6	Number:5
7	Number:6	8	Number:7	9	Number:8	10	Number:9	11	Number:00	12	Clear
13	Cancel	14	Accu/Confirm	15	Cash/Print	16	PLU	17	F-Prog	18	V1
19	V2	20	V3	21	V4	22	Amend	23	×	24	Feed
25	SetZero	26	SetTare	27	Sale	28	Prog	29	Account	30	Time
31	-%	32	-Num	33	@Price	34	TSale	35	CashBox	38	Manual Weight
39	Paper Type	40	Pre/Re Print	41	Shift	44	Print2	45	CCard	46	MoveDot
47	U.W. Sample	48	Weight Accu	49	Division	50	UnitChange	51	Lock Tare	52	Auto Mode
53	Normal Mode	54	Batch Mode	55	PrePack Mode	56	LockPLU Mode	57	AutoPrint Mode	58	Service Fee
59	←V→	60	Mode	62	On/Off	63	PayOther-0	64	PayOther-1	65	PayOther-2
66	VIP	67	Other Transactions	76	Custom Info 1	77	Custom Info 2	78	Custom Info 3	79	Custom Info 4