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**TVS Electronics Ltd.**

**31st August 2008**

# **[ TVS MASCOT USER MANUAL ]**

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# 1 BASIC FEATURES

## 1.1 General Descriptions

Department	8
PLU	3000
Clerk	4
Display	6 Characters 8 Digits
Printer	Thermal Printer
Paper:	57mm×50mm
Print speed:	40~50mm/s

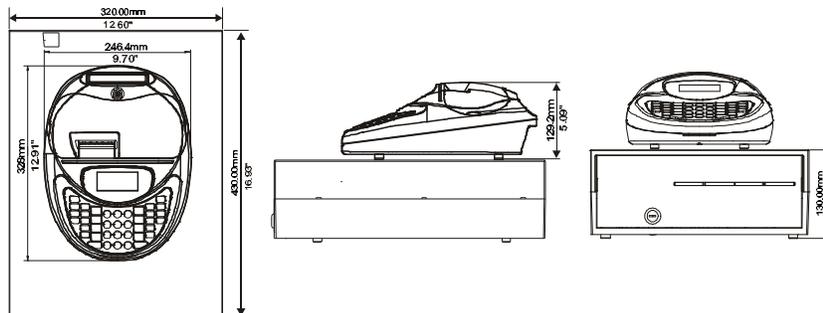
## 1.2 Technical Specifications

- ◇ Battery specification: DC6V1.3AH×1  
Charger DC6.9V 800mA
- ◇ Drawer: vertical note insert, adjustable compartments, 8 bill/8 coin.
- ◇ working temperature: 0°C~40°C
- ◇ Working humidity: 10%~85% R.H.
- ◇ Weight: 2kg
- ◇ Keyboard: 40 stroke keys

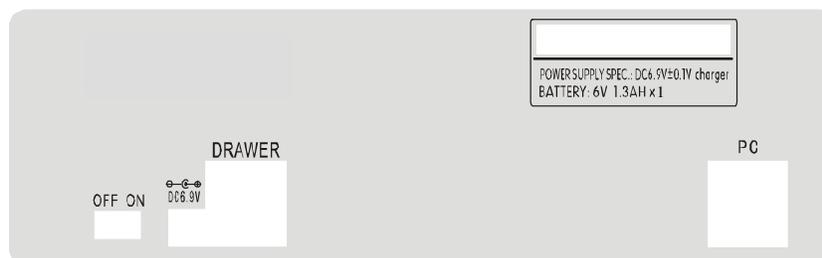
## 1.3 Characteristics

- 1) Energy-saving system. Enter sleeping mode automatically when it is not in operation.
- 2) Can be connected to barcode scanner.
- 3) Large PLU capacity.
- 4) Large RAM capacity.
- 5) LCD backlight screen, able to display time.
- 6) Auto-alarm for low battery voltage to remind of the immediate charge.
- 7) Support 46 types of bar code.
- 8) Support 6 kinds of foreign currencies for payment.
- 9) Support credit card payment.
- 10) Support hybrid payment of cash, credit card and foreign currency.

## 1.4 Dimensions



## 1.5 Power Switch and interface



This cash register has two types of turning off, one is cold turning off (put power switch to off position). With this type, battery power is disconnected, the standby power supply of main board supplies only for RAM, which stores the sales data. This can prevent stored data from losing. The other is soft turning off (press key [CLERK] to switch to off mode). There is nearly no power consumption in this mode. We suggest that you'd better select soft turning off (press [CLERK] to wake up the ECR).

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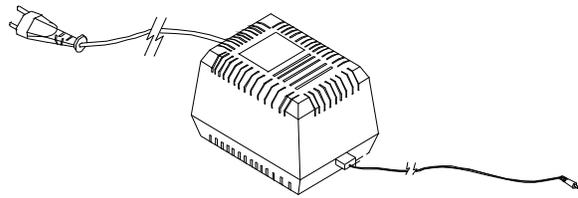
## 2 PRECAUTIONS

**The cash register will beep when operation error occurs, and ERR x displayed. Press key [C] to stop the beep and refer to chapter 14-error information for details.**

- 1) The cash register has two types of turning off. One is cold turning off (i.e. put power switch to off position). With this type, power from the battery is disconnected, the standby power supply of main board supplies only for RAM, which stores the sales data. This can prevent stored data from losing. The other is soft turning off (i.e. press [C] key to switch to off mode). There is nearly no power consumption. We suggest that you'd better select soft turning off.
- 2) This cash register is a power-saving machine. After soft turning off, ECR enters into sound sleeping mode and there is nearly no power consumption. Generally speaking, after 30 minutes idleness, ECR enters into sleeping mode and thus energy saving is available, press any key can wake it up. The switch on back panel is used for long-term storage or special maintenance. In daily usage, operator should use soft switch on keyboard instead of turning on/off this switch. In case the switch in back panel should be used, make sure it should be turned off for at least 4 minutes before it is turned on again.
- 3) This cash register has embedded battery. You can use it without other power supply (about 1 hour). **But you'd better connect the ECR to AC all the time.** It does no damage to the battery with the embedded circuit protection design.
- 4) This model of cash register has two battery low-voltage warning classes. The first warning class occurs when battery voltage is below 6.0v, and "low B" which means low battery voltage will be displayed. The cash register beeps every 5 seconds when it is idle in the first warning class. The second warning class occurs when the battery voltage is below 5.8v, and "low B" displayed. The cash register is out of work and immediate charge needed. Otherwise, using life of battery will be shortened and the stored data in the memory will lose probably after a long time.
- 5) To guarantee data security, we suggest you select soft turning off. Once you use cold turning off, don't keep this state long. Switch off cash register used for battery exchange. In general new battery can be used for several years. Once you find that the working time of battery is shortened apparently, battery replacement is needed. Though the stored data can exist for a long time after the battery is taken out of ECR, we suggest you to replace the battery as soon as possible.
- 6) The battery will self-discharge gradually even it is not in use. Charge the cash register twice a year at least when you do not use it, and charge about 6 hours each time.
- 7) Please full-charge the battery when you use the ECR time or after long-time unused.
- 8) Don't turn on the power immediately when the cash register is taken from cold outdoors to warm indoors. In order to avoid short circuit, turn on the power after about one hour.
- 9) Please operate this machine in clean and dry place. (Using life will be shortened in dusty ambient)

### 3 ACCESSORIES

1. Charger



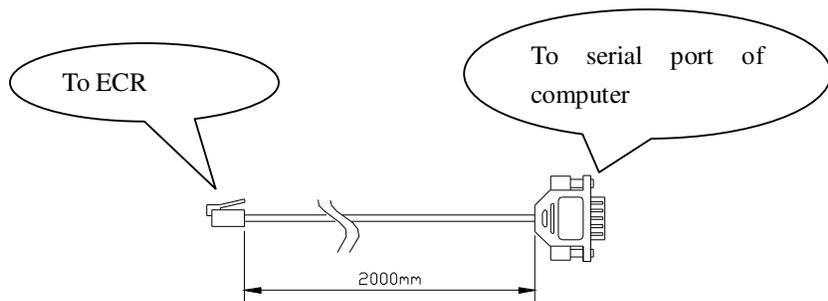
2. Installation disk



3. Communication wire for computer download.

Model: 4P9D2.0M SO connect wire. (Used for CR35)

Connect computer and ECR directly. Use for PLU and department data download.



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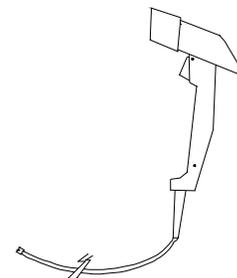
4. Bar code scanner (optional)

Model: PT9060/4

Scan spec:

9600 bps baud rate, 8 data bits,

1 stop bit, no parity check bit.

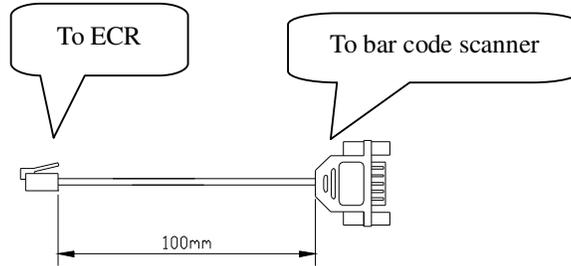


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5. Connect wire for bar code scanner (optional)

Model: 4P9D1.0M SO connect wire.

Use this connect wire when bar code scanner supplied by the third party, which cannot be connected to our ECR directly.



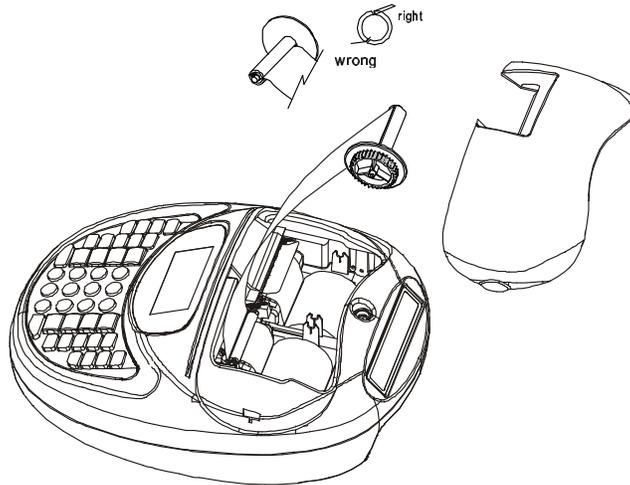
## 4 INSTALLATIONS

### 4.1 Paper Installation

The cash register has two thermal printers. One is for customer and the other is for backup use.

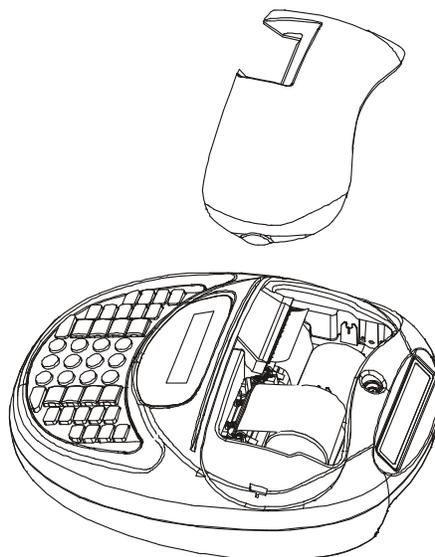
#### 1. journal paper installation

Remove the upper cover by lift at its top forcibly. Pull out paper axis and remove the remains. Install a new roll of paper to the backup printer. Pull the end of paper into paper inlet and press key [FEED] to feed in paper enough. Pull the outside papers into the gap of paper collecting axis, and then wind this part of paper around paper axis. Put paper axis to paper collecting seat.

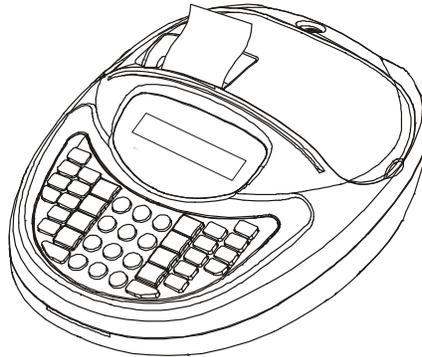


#### 2. Receipt paper installation

Install a new roll of paper into receipt printer. Put the end of paper into paper inlet and press key [FEED] to feed in paper enough. Pull the paper out of paper outlet in upper cover.



3. Close the housing cover.

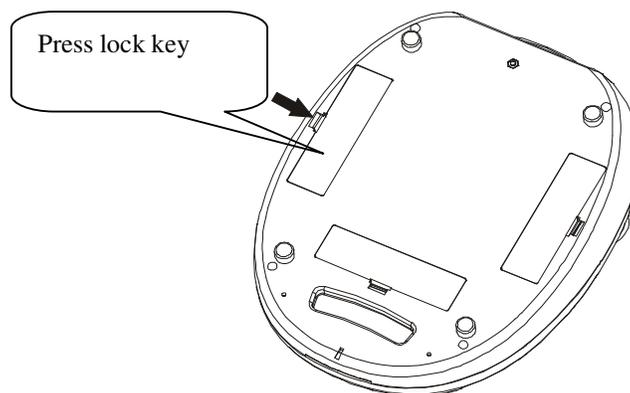


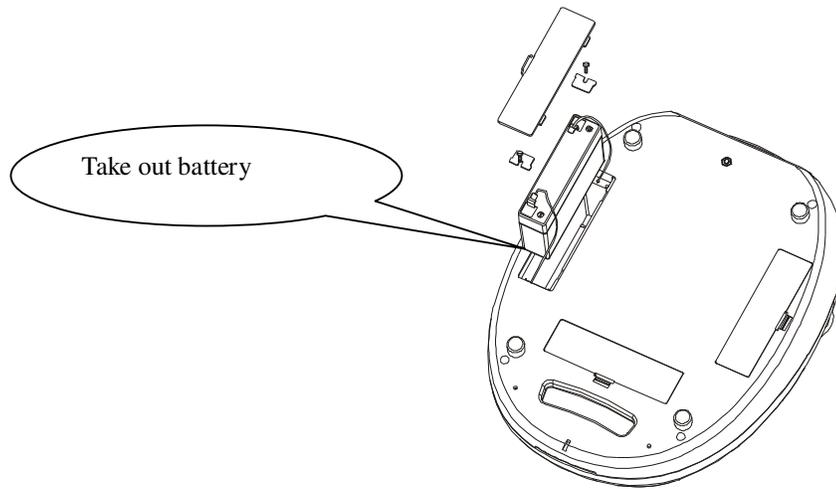
## 4.2 Battery Installation

We use sealed lead acid battery for our ECR. Generally, new battery can be used for several years. If battery's working time is shortened apparently after charging, you need to replace a new one.

### Attention:

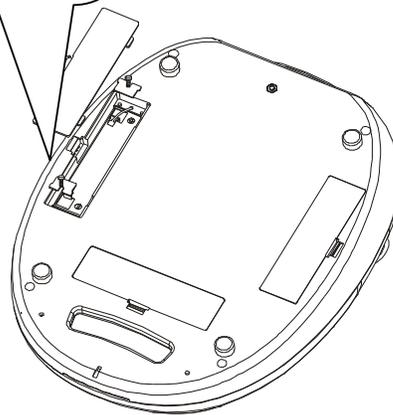
- ✧ **Put power switch to Off side.**
- ✧ **Though the data can be stored for a long time after battery is removed, you had better replace a new one as soon as possible to prevent stored data from losing.**
- ✧ **When battery is not in use for a long time, it will self-discharge gradually. Charge the battery twice a year at least when it is not in use and each time for about 6 hours.**





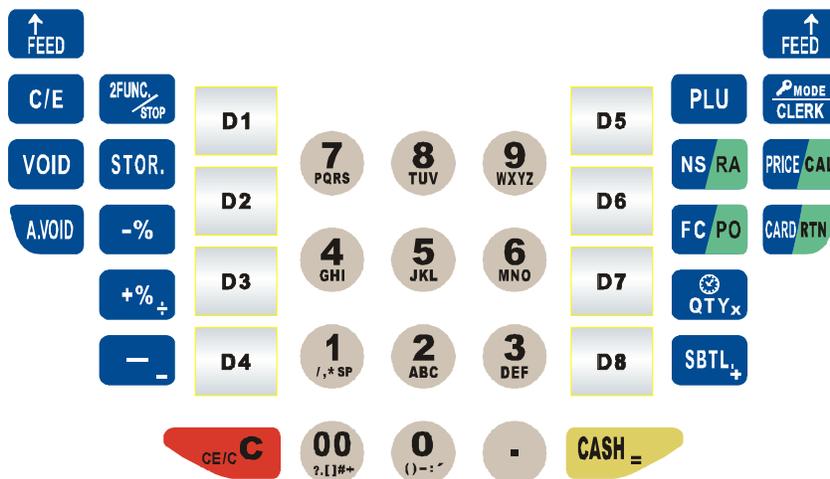
Take out battery

Install new battery. Pay attention to the polarity (red for anode, black for cathode). Screw the bolt and replace the cover.



## 5 KEYBOARD

### 5.1 Keyboard Layout



### 5.2 Basic Functions Of Key

[FEED] used to advance the receipt paper one line or continuously until the key is released.

[CLERK] clerk login or change operation mode.

[PRICE/CAL]

combine with numerical key to input price.

Work as a calculator

[CARD/RTN] paid with credit card, this transaction will record in receipt and report.

[PLU] combine with numerical key. Shift digits to bar code number

[NS/RA] Open the drawer outside of sales

receive on account outside of sales

[FC/PO] Foreign currency conversion

paid out outside of sales

[QTYx] multiply department sales and PLU sales

display time and date

[-%] press this key directly to subtract a percent from the sales sum, this is recorded in the report

[+%/÷] press this key to plus a percent to the sales sum, this is recorded in the report

[-/] amount discount

delete the last character of character string

[2FUNC/STOP]

shift the key function

[C/E] cancel the last transaction

[VOID] cancel the selected transaction, canceled sum will be recorded in the report

- [A.VOID]   cancel a receipt
- [STOR]    used to store a bill before sale transaction is finalized
- [C<sub>CE/C</sub>]   Cancel wrong operation and error state
- [CASH =]   Transaction with cash  
            Enter into some function settings

## 6 OPERATOR LOGIN/LOGOUT SYSTEM

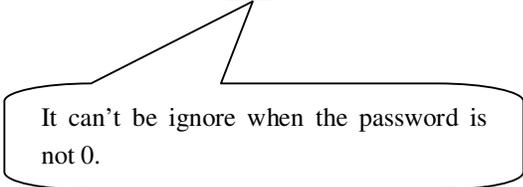
### 6.1 Manager login/logout

For the first time you use the ECR, you need to enter X, Z, SET and S mode as manager No.1 with the password 0 (that is default password, and it can be ignore). But we suggest you change the password (see chapter 10.3for detail). The steps of login are shown below:

1. Press [CLERK] to the mode you want, then press [CASH].
2. Input the manager number and password, press [CASH].

For instance: No.1 manger with the password 0 login SET mode, press [CASH] and press [CLERK] to SET mode,

Input [1] +[CASH] + [0] + [CASH]



It can't be ignore when the password is not 0.

### 6.2 Clerk login/logout

**Attention:**

**The cash register will beep continuously when error occurs. Press key [C] to stop the beep.**

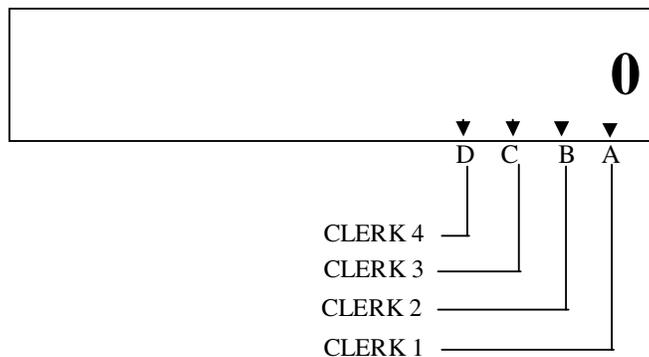
**Any sales operation will cause error while no clerk login.**

The cash register does not work without clerk login. Each receipt has a clerk mark to identify the clerk on duty. To guarantee the reality of sales report, each clerk has own login password.

1.Clerk login system:

Any sales operation will cause error without clerk login. So, clerk must login system first. This cash register supports four clerks (A to D), the corresponding code is 1 to 4.

LCD display



Login as below:

If clerk login password has set, then

Input: NNNNN, the first digit is clerk code and the other four are clerk password.(the clerk's password range from 0 to 9999)

Example 1: clerk A login (login password is 8888)

Input: 1 8888 [CLERK]

If clerk login password does not set

Input: N, N is clerk code

Example 2: clerk B login (without login password)

Input: 2 [CLERK]

## 2. Clerk logout system:

When you print the daily report in Z mode, the clerk logout automatically.

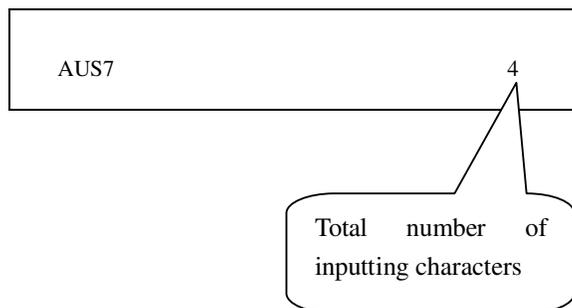
## 7 HOW TO INPUT CHARACTER

Character input is required when inputting ID code, PLU name, department name and foreign currency name. The method for inputting character is described as follows:

Each numerical key is combined with English letters, like key **5**<sub>JKL</sub>, 'J' is the first character, 'K' is the second character, 'L' is the third character, and '5' is the fourth character. If you want to input the first letter in the character string, press the key once, if you want to input the second letter, press the key twice, and the like.

The number of character inputted is displayed in the right of LCD.

e.g. input 'AUS7', press key [2] once, press key [8] twice, and press key [7] 4 times, press key [7] five times.



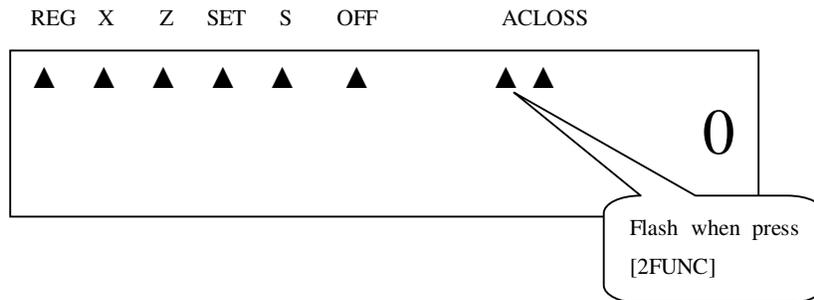
**Note:**

**Press [C/E] key to shift capital and small letter when input character.**

**Press [X] key to double widen the letter interval.**

## 8 OPERATIONS MODE SELECTION

The cash register has 6 operation modes. Press key [CLERK] to shift to X, Z, SET, S or OFF mode, and press [CASH] to enter the mode. Press key [C] to return the default mode--- REG mode.



REG	sale operation mode
X REPORT	To read various financial reports
Z REPORT	To read financial reports and reset the total to zero
SET	Set some items
SYSTEM SET	set system parameter
OFF ECR	Soft turn off of system
ACLOSS	The cursor flashes when AC is lost

All reports can be printed in X or Z mode. The difference between them is:  
 In X mode, total sales sum is not set to zero after printing report, next sales sum will be accumulated.  
 In Z mode, total sales sum is set to zero after printing report, next sales sum will be recalculated.

## 9 SETTINGS IN SYSTEM SET MODE

### Attention :

- ✧ If transaction has done, Z daily report must be printed before entering SYSTEM SET mode.
- ✧ The ECR beeps continuously when error occurs and ERR X displayed. Press key [C] to stop the beeps. Refer to chapter 14 for error details.

Following items can be set in SYSTEM SET mode:

- ✧ TRAN TO USER MODE/TRAN TO TRAIN MODE
- ✧ TRAN TO TAX MODE
- ✧ TAX DATA → Only displayed in TAX mode
- ✧ SYSTEM OPTION
- ✧ ERASE PLU DATA
- ✧ CLERK
- ✧ SET SCALE TYPE
- ✧ SET LOCAL CURRENCY SIGN

Press key [CLERK] to shift to SYSTEM SET, press [CASH]. First, Input manager number, press [CASH], and then type-in the password, press [CASH]. If ERR 19 displays, which indicates that daily report in Z mode has not been printed. You must enter Z mode first to print the daily report. When error occurs, press key [C] to clear the current input or exit SYSTEM SET mode.

### 9.1 Tran To User Mode/Train Mode Setting

If the ECR is in the USER MODE currently, this item will be shown as ‘TRAN TO TRAIN MODE’; If the ECR is in the TRAIN MODE, and this item will be shown as ‘TRAN TO USER MODE’.

Use key [-%] or [%+] to select ‘TRAN TO USER MODE’ or ‘TRAN TO TRAIN MODE’ item, press key [CASH] to enter this function.

After system prompts: <INPUT ECR NO>, input the ECR’s number which is marked on back panel of ECR. Then press [CASH] to confirm.

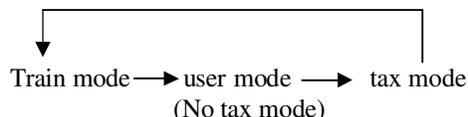
DATE:20/09 TIME:15:12 NO:000019



## 9.2 Tran To tax Mode

This is the same with the 9.1

Note: if you want to transfer to no tax mode when you are in tax mode, you need to transfer to training mode first, and then transfer to user mode. At this time, you will be in the no tax mode.



## 9.3 Tax Data

Press [CASH], there are 3 items: TAX, TAX HEAD LINE and TAX TAIL LINE.

### 9.3.1 Tax Setting

Use key [-%] or [%] to select 'TAX' item, press key [CASH] to enter this function.

After system prompts:<Tax Index>, input a digit, which range from 1 to 8, 1 for tax A; 2 for tax B; 3 for tax C; 4 for tax D; 5 for tax E; 6 for tax F; 7 for tax G; 8 for tax H. Then press [CASH].

After system prompts:<tax rate>, input the tax rate range from 00.00 to 99.99. Press [CASH] again to confirm.

### 9.3.2 Tax Head Line and Tax Tail Line

Use key [-%] or [%] to select 'TAX HEAD LINE' or 'TAX TAIL LINE' item, press key [CASH] to enter this function.

After system prompts:<IDX (1~3)>, input the line you want to edit, press [CASH]. (The first line of message must be set)

After system prompts:<MSG>, input the message, and press [CASH] to finish the setting.

## 9.4 System Option

Use key [-%] or [%] to select 'SYSTEM OPTION' item, press key [CASH] to enter this function.

System prompts:<UNIT PRICE INCLUDE TAX? -- N>, it means whether set the unit price to include tax? Press [CASH] to switch Y and N, and press [C] to exit the setting.

## 9.5 Erase PLU data

Use key [-%] or [%] to select 'ERASE PLU DATA' item, press key [CASH] to enter this function.

Use key [-%] or [%] to choose 1: yes or 0: no.

If you choose 1, then the PLU data will be all erased; if you choose 0, then the system will exit the function.

## 9.6 CLERK

Use key [-%] or [%] to select 'CLERK' item, press key [CASH] to enter this function.

System prompts:<IDX (1~4)>, input the clerk' number, then press [CASH].

After system prompts:<PSW>, set the clerk's enter system password, press [CASH]; If you won't set password, press [CASH] directly.

## 9.7 Scale Type Setting

The ECR can connect to scale. Before you use them, you need to do this setting.

Use key [-%] or [%] to select 'scale type' item, press [CASH] to enter this function.

After system prompts: <0. FTP 1. ANGEL>, input 0 or 1 to choose one type of scale that you want, press [CASH].

## 9.8 Set Local Currency Sign

You can set the local currency symbol in this function. Use key [%] or [-%] to select 'set local currency sign' item, press [CASH].

System prompts<input local currency sign>, input the symbol no more than 3 characters, and then press [CASH].

## 10 SETTINGS IN SET MODE

### Attention:

- ✧ Before entering SET mode, Z daily report must be printed first. If not so, you can only see some of the items in SET mode.
- ✧ ECR beeps continuously when error occurs, and ERR X displayed. Press key [C] to stop the beeps.

Following items can be set in SET mode:

- ✧ SET OPTION
- ✧ DATE/TIME
- ✧ SET PRINTER
- ✧ HEAD & TAIL MSG
- ✧ RINGS FOR MODEM AUTO RESPONSE
- ✧ PLU
- ✧ DEPARTMENT
- ✧ PERCENT
- ✧ BARCODE TYPE
- ✧ PLU STOCK
- ✧ ROUND
- ✧ SET FC
- ✧ SET MANAGER & PSW
- ✧ PRINT PLU
- ✧ OTHER TAIL

Press key [CLERK] to shift to SET mode, press [CASH]. First, Input manager number, press [CASH], and then type-in the password, press [CASH]. If you haven't printed the Z daily report, you only can set some of the settings.

When error occurs, press key [C] to clear the current input or exit SET mode.

### 10.1 Set Option

Press [CASH], and use key [-%] or [%+] to choose the items below. Press [CASH] to switch Y and N.

	OPTION	DESCRIPTION	REMARK
1	CLD-RPT & RESET REP? --Y	Whether the receipt number needs restoration after clear daily report	
2	CLOSE NOSALE REC. PRINT? --Y	Whether close printing receipt function when there is no sales operation occur	
3	ENT AMT AT SETTLE? -- Y	Whether force cash tendered inputting when check-out	
4	ALLOW CARD CHANGE? -- Y	Whether allow give changes when card payment	
5	PRN REP. AFTER SETTLE? -- Y	Whether print receipt after settle account	If you choose yes, then the item 10,11 and 12 will not be available.
6	WARNING AT AC LOST? - Y	Whether give a warning when AC is lost	

7	REPRN REP PRESS CASH? -- Y	Whether re-print the last receipt when press [CASH].	
8	PRN BARCODE? -- Y	Whether print barcode on receipt	
9	PRN HEAD LOGO? -- Y	Whether print head logo?	
10	ALLOW DIS. MANUAL? -- Y	Whether allow discount when selling	
11	SALE AFTER SUBT&DIS? -- Y	Whether allow sell after subtotal or discount?	
12	SUBT DIS APPT TO PLU? -- Y	Whether apportion the subtotal discounted money to each PLU	
13	A.VOID/STORE PSW? -- Y	Whether need to input password during all void or store operation.	
14	EC/VOID PSW? -- Y	Whether need to input password during EC/VOID operation	
15	13-ENC AS WARE NO.? -- Y	Whether agree on 13-barcode as ware number	
16	CAN PAYMENT IN RTN REC.? -- Y	Whether allow return by preset payment	
17	CLOSE SALE REC. PRINT? -- Y	Whether close printing function when selling	
18	ADD OTHER TAIL MESSAGE? -- Y	Whether add other tail message to PLU, TAX, DISCOUNT, CASH or CARD	
19	PRINT DATE IN RECEIPT? -- Y	Whether print date on the receipt	
20	ALLOW NEGATIVE STOCK? -- Y	Whether allow negative stock exist?	

Tip: if you set item 5, 7 and 17 to Y, then, after settle account the machine will not print receipt. Only after you press [CASH] again will it print receipt.

## 10.2 Date and Time Setting

Steps :

Use key [-%] or [%] to select 'DATE AND TIME' item, press [CASH] to enter this function.

1. After the system prompts <DATE (DDMMYYYY) > , date can be inputted. Press [CASH] to confirm.

Date format is DDMMYYYY. DD is day, data range from 01~31. MM indicates month, data range from 01~12. YYYY is year, data range from 2000~2099.

Example: input date 05/27/2003

27052003 [CASH]

2. After system prompts:<TIME(HHMMSS)>, time can be input. Press [CASH] to confirm.

Time format is HHMMSS. HH is hour, data range from 00~24. MM is minute, data range from 00~59. SS is second, data range from 00~59.

Example: input time 14:10:30

141030 [CASH]

## 10.3 Printer

Press [CASH], there are 2 items: PRINT DENSITY and SET FONT HIGH NUM

### 10.3.1 Print Density

This ECR supports density class 1 to 9. '1' is the lightest but the fastest one of all, and '9' is just the opposite.

(Note: higher density will cause more damage to the printer, so, we suggest that you use the paper of good quality, and choose the lower density class.) Factory density class value is 1. Use key [-%] or [%] to select 'Print Density' item, press [CASH] to enter this function.

System prompts: <print density (1~9)>, Type-in one digit, which is within the scope, and press [CASH] to confirm.

### 10.3.2 Set Font High Num

Use key [-%] or [%] to select 'SET FONT HIGH NUM' item, press key [CASH] to enter this function.

After system prompts: <FONT HIGH NUM (0~4)>, input a digit which range from 0 to 4. '0' represents the smallest font, and '4' represents the largest font.

Press [CASH] to confirm your setting.

## 10.4 Head and Tail MSG

### 10.4.1 Head MSG

Setting head message is mainly used to edit the header message of the receipt.

Use key [-%] or [%] to select 'HEAD MESSAGE' item, press key [CASH] to enter this function.

1. After the system hints to <HEAD MSG IDX(1~5)> info, input the line number that needs modifying.
2. After system prompts:<HEAD MSG>, write the message in. press [CASH] to confirm.

**Note: head message and head logo can't be printed simultaneously in a receipt.**

### 10.4.2 Tail MSG

Setting tail message is mainly used to edit the footer message of the receipt. Use key [-%] or [%] to select 'TAIL MESSAGE' item, press key [CASH] to enter this function.

1. After the system prompts <TAIL MSG IDX(1~2)> info, input the line number that needs modifying.
2. After system prompts:<TAIL MSG>, write the message in. press [CASH] to confirm. (Refer to chapter 7 for detail)

**Note: tail message and tail logo can't be printed simultaneously in a receipt.**

## 10.5 Rings For Modem Auto Response

The ECR has the function of telecommunications. The modem line should be connected to the PC port, This telecommunications initiated by the headquarter, and start after the branch store answered.

In 'rings for modem ACK', you need to set the times that branch store's telephone rings. It means the ECR will enter telecommunications automatically after the telephone rings the times you set.

Use key [-%] or [%] to select 'RINGS FOR MODEM ACK' item, press key [CASH] to enter this function.

After system prompts:<RINGS NUM (0~9)>, input a digit range from 0 to 9, then press [CASH]to confirm.

For example: you set 3, then after the telephone ring 3 times, the ECR will enter telecommunications automatically.

## 10.6 PLU setting

PLU information can be downloaded from computer and it can also be set through keyboard directly. Use key [-%] or [%] to select 'PLU' item, press key [CASH] to enter this function.

1. After system prompts: <BARCODE>, input product code through keyboard or bar code scanner (less than13 digits). And press [CASH] key.
2. After system prompts: <NAME>, input PLU name and press [CASH].
3. After system prompts: <Price >, input PLU price. The max value is 999999.99 Press key [CASH] to confirm.
4. After system prompts: <TAX IDX (0~8)>, input the tax IDX, and press [CASH].

5. After system prompts: <DESCRIPTION IDX (1~20)>, input a number range from 1 to 20, press [CASH].
6. After system prompts: <ALLOW RTN (0:NO 1:YES)>, input 0 or 1, press [CASH].  
0: not allow PLU return; 1: allow PLU return
7. After system prompts: <DEP NUM>, input department No. PLU belongs to, then press [CASH] to confirm.
8. After system prompts: <STOCK>, input the PLU's stock, press [CASH]  
The system will print a ticket where displays the information of the PLU you just set.

## 10.7 Department Setting

Department information can be downloaded from computer, and it can also be set through keyboard directly. The steps are similar to PLU setting. Use key [-%] or [%] to select 'DEPARTMENT' item, press key [CASH] to enter this function.

1. After system prompts: <DEP NUM>, input department number which range from 1 to 8, and then press [CASH] to confirm.
2. After system prompts: <DEP NAME>, input the department's name, and press [CASH] to confirm.
3. After system prompts: <DEP Price>, input the department's price (0~9999999) and press key [CASH] confirm.
4. After system prompts: <TAX IDX (0~8)>, input tax index, press [CASH].

The system will print a ticket where displays the information of the department you just set.

## 10.8 PENCENT

### 10.8.1 +%

Use key [-%] or [%] to select '+' item, press key [CASH] to enter this function.

1. After the system prompts: <+(0.00~99.99) > , input the rate value.
2. press [CASH] to confirm.

Example: 20.15% surcharge  
20.15 [CASH]

### 10.8.2 -%

Use key [-%] or [%] to select '-' item, press key [CASH] to enter this function.

1. After the system prompts: <(0.00~99.99) > , input the rate value.
2. press [CASH] to confirm.

Example: 10% discount  
10 [CASH]

## 10.9 Barcode Type Setting

This ECR supports 13 digits EAN-13 code and 8 digits EAN-8 code. For EAN-13 code, when the first digit of bar code is 2, it is defaulted as inner bar code. Generally, the last digits used for checksum. Ten types inner barcode starting with 20 ~29 can be selected from 46 types of barcode.

Use key [-%] or [%] to select 'BARCODE TYPE' item, press key [CASH] to enter this function.

1. After system prompts: <FIRST 2 CODE >, input 2 digits start code. Press [CASH] to confirm.
2. After system prompts: <barcode type (0~45)>, input bar code type. Press [CASH] to save the setting.

## 10.10 PLU Stock

- Search PLU Stock

This function is used for search PLU stocks.

Use key [-%] or [%] to select 'Search PLU Stock' item, press key [CASH] to enter this function. When the LCD display "barcode" input the PLU barcode which you want to query. Then press [CASH]. LCD shows the stocks.

- ADD PLU Stock Setting

This function is used to register the increase in stocks. Use key [-%] or [%] to select 'ADD PLU' item, press key [CASH] to enter this function.

1. After system prompts:<BARCODE>, input the PLU barcode, press [CASH] to confirm.
2. After system prompts:<PLU STOCK>, input the stocks. Press [CASH] to confirm.

- DEL PLU Stock

This function is used to register the decrease in stocks. Use key [-%] or [%] to select 'DEL PLU' item, press key [CASH] to enter this function.

1. After system prompts:<BARCODE>, input the PLU barcode, press [CASH] to confirm.
2. After system prompts:<PLU STOCK>, input the stocks. Press [CASH] to confirm.

**Note: after you finish the setting of "add PLU stock" or "del PLU stock", the ECR will print a receipt to display the ultimate stockage.**

## 10.11 Round Setting

Use key [-%] or [%] to select 'ROUND' item, press key [CASH] to enter this function.

System prompts: <ROUND DIGIT>, input 1 or 2, press [CASH].

- 1: reserve a currency fraction
- 2: no currency fraction

System prompts: <ROUND NUM>, input a digit range from 5 to 9.

- 5: 4 cut 5 in
- 6: 5 cut 6 in
- 7: 6 cut 7 in
- 8: 7 cut 8 in
- 9: 8 cut 9 in
- 0: close round function

## 10.12 Set FC

Use key [-%] or [%] to select 'FC' item, press key [CASH] to enter this function.

1. After system prompts:<FC IDX>, input the foreign currency index, press [CASH] to confirm.
2. After system prompts:<FC NAME>, input foreign currency name.
3. After system prompts:<Subsidiary (0.NO 1.YES)>, Input 0: without fractional currency; input 1: with fractional currency.
4. After system prompts:<FC RATE>, input the exchange rate( domestic currency to 1 foreign currency) and press key [CASH] to enter. The setting range is 0~99999999.  
e.g., input exchange rate 8, foreign currency is US\$, then 1.00\$=8 domestic currency.

### 10.13 Set manager & password

Use key [-%] or [%] to select 'SET MANAGER & PASSWORD' item, press key [CASH] to enter this function.

There are three items: manager set, change super psw and change set psw. Use key [-%] or [%] to select the item you want to set.

#### 1) Manager set

The ECR can set 32 managers, and the NO. 1 is the super manager, only he can change other managers' purview. So, you must be careful to do this setting.

1. Use [%] or [-%] to select 'MANAGER SET', press [CASH].
2. System prompts: <input manager no>, input a manager number from 1 to 32.
3. System prompts: <purview (1. x 2. RTN 3. SET 4. Z 5. CLERK 6.S)>, input a digit, press [CASH].

If you set 1, the manager can enter x report

If you set 2, the manager can enter x report, and can do return commodity operation.

If you set 3, the manager can enter x report and set mode, and he can also do return commodity operation.

That is to say that if you set N, the manager's purview is 1~N.

4. system prompts: <input manager psw>, input the password, press [CASH], and input the password again to confirm, press [CASH].

#### 2) Change super psw

Super password is the highest password. It can replace all the passwords used in this ECR. So, we suggest that you should keep the password in secret.

Use [%] or [-%] to select 'change super password', press [CASH]. Do as the LCD prompts.

#### 3) Change set psw.

Set password can be used in entering return commodity, void commodity and store receipt.

Use [%] or [-%] to select 'change SET password', press [CASH]. Do as the LCD prompts.

### 10.14 Print PLU

Use key [-%] or [%] to select 'PRINT PLU' item, press key [CASH] to enter this function.

After the system prompt: <PLU SERIAL (XXXX XXXX)>, input the PLU serial. The first 4 digits is the start number, and the last 4 digits is the end number. The cash register will print PLU from XXXX to XXXX. If you input 0000, then it will print all PLU.

### 10.15 Other Tail

Here you can edit description for PLU, TAX, DISCOUNT, CASH and CARD.

Use key [↑] or [↓] to select 'OTHER TAIL' item (System flag 20 must be choose 'yes'), press [CASH].

Note: other tail message has two lines, and each line no more than 30 characters. PLU has 20 kinds of description, and the message can be displayed at the bottom of corresponding PLU on receipt.

ITEM	Description IDX	TAIL MSG IDX	TAIL MSG
PLU	1~20	1~2	0~30 characters
TAX		1~2	0~30 characters
DISCOUNT		1~2	0~30 characters
CASH		1~2	0~30 characters
CARD		1~2	0~30 characters

## 11 SALES OPERATION

Press key [C], shift to REG mode. Press [FUNC][QTY] display time, and then press [C] display voltage.

### Attention:

- **ECR beeps continuously when error occurs and ERR X displayed. Press [C] to stop the beeps. Refer to chapter 14 for details.**
- When there are no operation, press [QTY/WT] will display time and date; press [QTY/WT][C] will display voltage and software version.

### 11.1 Department Sales

You can divide the commodity to several departments, such as home electro-appliance department, aquatic product department etc. Each department has a default price. For example, price of all the fish in aquatic department is Rs10/pc. One fish is sold when you press aquatic department key one time. Of course you can sell Rs25 a fish a time, or sell several fish one time.

e.g.1:

Sell as department price

dept No.	[D2]	DATE:20/09	TIME:15:12
	[D3]		
Settle accounts		NO:000019	
Cash	[CASH]		

e.g.2:

Sell as key-in price

Money dept No. [1]	[D3]	B	Rs20.00
	[2][D4]	DATE:20/09	TIME:15:12
Settle accounts		NO:000019	
Cash	[CASH]		

e.g.3:

Sell as quantity

Qty. multiply Dept. No. [2][QTY <sub>x</sub> ]	[D3]	DATE:20/09	TIME:15:12
	[3][QTY <sub>x</sub> ][D4]	NO:000019	
Settle accounts			
Cash	[CASH]	C 30.00X2	Rs 60.00

## 11.2 PLU Sales

PLU is a commodity. Every commodity has a price and a barcode. Input barcode number when sell PLU. Same as department sales, PLU can be sell as per quantity and price.

e.g.1

		DATE:20/09	TIME:15:12
Sell as PLU price			
PLU barcode, PLU item	[3][PLU]	NO:000019	
	[4][PLU]		
Settle accounts		ECR	Rs
Cash	[CASH]		

e.g.2:

Sell as money		DATE:20/09	TIME:15:12
Money, unit price, PLU barcode, PLU item			
	[1][PRICE][3][PLU]	NO:000019	
	[2][PRICE][4][PLU]		
Settle accounts		ECR	Rs 1.00
Cash	[CASH]		

e.g.3:

Sell as quantity		DATE:20/09	TIME:15:12
Qty. multiply PLU barcode, PLU item			
	[2][QTY <sub>x</sub> ][3][PLU]	NO:000019	
	[3][QTY <sub>x</sub> ][4][PLU]		
Settle accounts		ECR 3000.00X2	Rs
Cash	[CASH]		

## 11.3 -% Key Operation

After input PLU or sum of Dept. sales amount, input discount rate and press key [-%] to finish PLU or department discount. If discount on total sales amount, after input sum of sales amount, press [SUBTOTAL], input discount rate, and press key [-%] to finish.

Discount rate range from 0.01%~99.99%.

**e.g. 1:**

Sales department	DATE:20/09	TIME:15:12
dept. No. [D3]		
[D4]	NO:000019	
dept. discount		
dept. No. rate of -%		
[1][0][-]	C	Rs 30.00
sell PLU		
PLU barcode single item	D	Rs 40.00
[1][PLU]		
PLU discount	-% 10	1 00
PLU barcode, single item, discount rate-%		
[3][PLU][1][5][-]		
Settle accounts		
Cash [CASH]		

**e.g. 2:**

Sales department	DATE:20/09	TIME:15:12
	NO:000019	
Dept. No. [D3]		
[D4]		
[D5]		
[D6]	C	Rs 30.00
Total discount		
Subtotal discount rate -%	D	Rs 40.00
[SBTL][1][0][-]		
Settle accounts	E	Rs 50.00
Cash [CASH]		

**Note: the operation of [+ %] key operation is similar to it.**

**11.4 – Key Operation**

This key function is similar to -% key function, but minus key function is a discount of specific sum of amount.

e.g.

sales department dept. No. [D3]	DATE:20/09	TIME:15:12
[D4]		
display total sum	NO:000019	
subtotal [SBTL]	C	Rs 30.00
key [-] transaction [5] [-]	D	Rs 40.00
sum discount		
Settle accounts		

Cash [CASH]

### 11.5 [C/E] Key Operation

During transaction, if input is wrong or customer pulls back, use key [VOID] to cancel the last operation.

e.g. cancel single item

sales department

Dept. No.	[D3]	DATE:20/09	TIME:15:12
	[D4]		
	[D5]	NO:000019	
	[D6]		

cancel the last department [C/E]

Settle accounts		C	Rs 30.00
-----------------	--	---	----------

Cash	[CASH]	D	Rs 40.00
------	--------	---	----------

### 11.6 VOID Key Operation

During transaction, if input is wrong or customer pulls back, use key [VOID] to cancel the last operation.

e.g. cancel single item

sales department

Dept. No.	[D3]	DATE:20/09	TIME:15:12
	[D4]		
	[D5]	NO:000019	
	[D6]		

cancel [D4] transaction

[VOID][D4]		C	Rs 30.00
------------	--	---	----------

Settle accounts		D	Rs 40.00
-----------------	--	---	----------

Cash	[CASH]	E	Rs 50.00
------	--------	---	----------

		DATE:20/09	TIME:15:12
--	--	------------	------------

### 11.7 A.VOID Key Operation

		NO:000019	
--	--	-----------	--

Use key [A.VOID] to cancel a receipt.

e.g.		C	Rs 30.00
------	--	---	----------

sales department

Dept. No.	[D3]	D	Rs 40.00
	[D4]		
	[D5]		

cancel all the transactions [A.VOID]



### 11.11 Credit Transaction

This ECR can cooperate with credit card machine of the bank.

e.g. credit, cash hybrid transaction	DATE:20/09	TIME:15:12
sales department		
dept. No. [D3]	NO:000019	
[D4]		
[D5]		
display sum of amount		
subtotal            [SBTL]	C	Rs 30.00
sum of payment department		
sum of amount cash  [5][0][CASH]	D	Rs 40.00
credit payment		
credit                [CARD]		

### 11.12 Foreign Currency Payment

This cash register supports 6 kinds of foreign currency. Foreign currency and domestic currency can be hybrid used. You can pay partially in foreign currency and partially in domestic currency.

e.g.: pay in foreign currency, shortage part in card and cash

Sales department		
dept. No.            [D3]		
[D4]	DATE:20/09	TIME:15:12
[D5]		
pay in foreign currency	NO:000019	
currency code  payment mode  [SBTL]		
amount cash      [1][FC]		
[CASH]	C	Rs 30.00
	D	Rs 40.00

e.g.: pay a sum of foreign currency, shortage part in card and cash

Sales department

dept. No.	[D3]	DATE:20/09	TIME:15:12
	[D4]		
	[D5]	NO:000019	
pay in foreign currency			
currency code	payment mode [SBTL]		
amount cash	[1][FC][5]		
[CASH]		C	Rs 30.00
		D	Rs 40.00
		F	Rs 50.00

### 11.13 Save Operation

When account has been settled, the client forgets to buy some commodities. He(she) needs to postpone settling account with the cashier so as to fetch the commodities. At this moment it is not necessary for the cashier to press [A.VOID] to cancel the transaction amount. He can save the transaction amount via the function of SAVE RECEIPT(**5 receipts at most**). The transaction amount can be recalled via the function of RECALL RECEIPT and settling account can be carried on after the client comes back with his newly-selected goods.

e.g. sale department

[D2]		DATE:20/09	TIME:15:12
[D3]			
store the bill	[STOR]	NO:000019	
		B	Rs 20.00
recall the bill			
[1][STOR]			
sale department			
[D1]		DATE:20/09	TIME:15:12
cash			
[CASH]		NO:000019	
		B	Rs 20.00
		C	Rs 30.00

### 11.14 Commodity Return

	DATE:20/09	TIME:15:12
e.g. sale PLU		
[1][PLU]	NO:000019	
[3][PLU]		
cash		
[CASH]	APPLE	Rs
return commodity		
[2FUNC/STOP][RETURN]		
system prompts:<input manger>	DATE:20/09	TIME:15:12
then, input the manger's code and key-in		
his password after system prompts<input	NO:000019	
manager password>		
[0][0][0][0] [CASH]		RTN RECEIPT
input PLU		
[1][PLU]	APPLE	Rs
[3][PLU]		
[CASH]		

Note: after you finish the transaction, press [2FUNC/STOP][RETURN] to exit return commodity mode.

### 11.15 Calculator Operation

Press key [2FUNC/STOP][PRICE/CAL], the ECR can work as a calculator.

e.g.

26x3

[2][6][QTY\_x][3][CASH]

LCD display 78

## 12 SETTINGS IN X AND Z MODE

Various reports can be printed in X and Z mode. Difference between these two modes is:

In X mode, after printing report, total sales amount will be accumulated.

In Z mode, after printing report, total sales amount will stored and then reset to zero.

Press key [CLERK] to select X or Z mode, press [CASH], Input manager number, and then type-in the password. Then press [CASH] and enter it.

**Attentions:**

1. Following illustrations used for reference only.
2. This ECR screen when error occurs and ERR X displayed, press key[C] to stop the screen. Refer chapter 14 for details.

### 12.1 Daily Report

Daily report printed when clerks stop work every day so as to facilitate future query. Press [CLERK] to select X or Z mode, Input manager number, and then type-in the password and press [CASH] to enter. Press key [CASH] again to print daily report.

```

DATE:20/09 TIME:15:12 NO:00002

                                Z DAILY ERPORT

                                Z1
Pay in cash ← 000007
Cash in drawer ←
Clerk sale record ← NET SALE
Department name ← 1
Sell quantity ← Rs 70.00

                                CASH
    
```

## 12.2 PLU Report

Use [+%] or [-%] to select 'PLU REPORT' item, press [CASH]

	DATE:20/09	TIME:15:12
PLU name ←	NO:000019	→ Remain stock
Sell quantity ←		
	APPLE	-1.000
	1.000	Rs 10.00
	PEAR	-2.000
	2.000	Rs 401.00

## 12.3 Department Report

Use [+%] or [-%] to select DEPARTMENT REPORT item, press [CASH]

	DATE:20/09	TIME:15:12
	NO:000019	
Department name ←		
	DEPARTMENT REPORT	
	A	1.000 Rs 10.00
	B	3.000 Rs 421.00
	C	1.000 Rs 30.00
	D	2.000 Rs 1.00
	E	2.000 Rs 100.00
	F	1.000 Rs 700.00

## 12.4 Term Report

In X mode of Z mode, use [%+] or [%-] to choose [x daily term report], press [CASH].

```

DATE:20/09          TIME:15:12
NO:000019
                X TERM REPORT
NET SALE                1
                        Rs 29200.00
CASH                    2
                        Rs 29400.00
CARD                    -1
                        -----
                        Rs  200.00
NO SALE                0
NAME                    QTY
AMOUNT

```

## 12.5 Return Report

In Z mode, use key [%+] or [%-] to select 'RETURN REPORT', Press key [CASH].

```

DATE:20/09          TIME:15:12
NO:000019
                Z RTN REPORT
NAME
Apple                2.000
10.00%
Rs200.00
Fish                1 000

```

## 12.6 X Time Report

Use key [%+] or [%-] to select 'X TIME REPORT', Press key [CASH] to print the report.

```

DATE:20/09/04      TIME:15:12
NO:000021
                TIME REPORT
                9---10
4

```

### 12.7 X Stock Report

Use key [+%] or [-%] to select 'X STOCK REPORT', Press key [CASH], system prompts:<INPUT DEPARTMENT>, input the department IDX, press [CASH] to print the report.

DATE:20/09/04		TIME:15:12
NO:000021		
X STOCK REPORT		
Department number and tax rate	←	→ Remain stock
NAME		STOCK
Apple		
1 5.00%		5.000
Fish		
1 0.00%		0.000

### 12.8 Stock Warning Report

Use key [+%] or [-%] to select 'STOCK WARNING REPORT', Press key [CASH]. System will prompts<INPUT WARNING STOCK>, input the warning stock, press [CASH].

DATE:20/09/04		TIME:15:12
NO:000021		
WARNING STOCK REPORT		
50.00		
Department number and tax rate	←	Warning stock
NAME		STOCK
banana		
1 0.00%		5.000
water		
2 0.00%		28.000
shampoo		
3 0.00%		30.000
rice		
4 0.00%		45.000
Apple		
1 5.00%		30.000
Fish		

The PLUs which stocks are lower than the warning stock

## 12.9 Tax Report

In Z mode, use [+%] or [-%] to choose "TAX TERM REPORT", Press [CASH] to enter tax term report function. Use key [CLERK] to select detail report or summary report, press [CASH] to confirm. Then, press [CLERK] again to select 'by date' or 'by Z1'.

If you select by date, then input date term: DDMMYYDDMMYY (start day to end day)

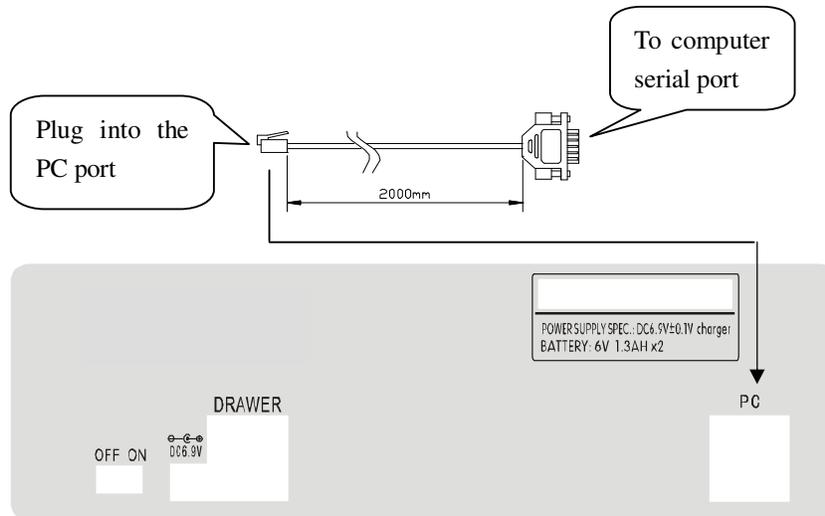
If you select by Z1, then input Z1 term: SSSSEEEE, SSSS is the start number, EEEE is the stop number.

e.g. by date

30-05-03 17:25 000060	
TAX TERM REPORT	
30-05-03 — 31-05-03	
Z serial ←	Z1 0109 30-05-03
	AMOUNT Rs 211.00
	TAX.....Rs 25.35
	Z1 0110 30-05-03
	AMOUNT Rs 13759.30
	TAX.....Rs 1827.47
	Z1 0111 30-05-03
	AMOUNT Rs 1591.00
	TAX.....Rs 211.71
	Z1 0112 30-05-03
	AMOUNT Rs 0.00
	TAX.....Rs 0.00
	Z1 0113 30-05-03
	AMOUNT Rs -358.00
	TAX.....Rs 0.00
	Z1 0114 30-05-03
	AMOUNT Rs 0.00
	TAX.....Rs 0.00
	Z1 0115 30-05-03
	AMOUNT Rs 100.00
	TAX.....Rs 9.09
	Z1 0116 30-05-03
	AMOUNT Rs 21667.00
	TAX.....Rs 1958.50
	Z1 0117 30-05-03
	AMOUNT Rs 78557.50
	TAX.....Rs 7106.00
	Z1 0118 31-05-03
	AMOUNT Rs 3742.00
	TAX.....Rs 159.18
	TOTAL AMOUNT Rs 119269.80
	TOTAL TAX Rs 11297.30
MC:12345678	
CLERK:A	



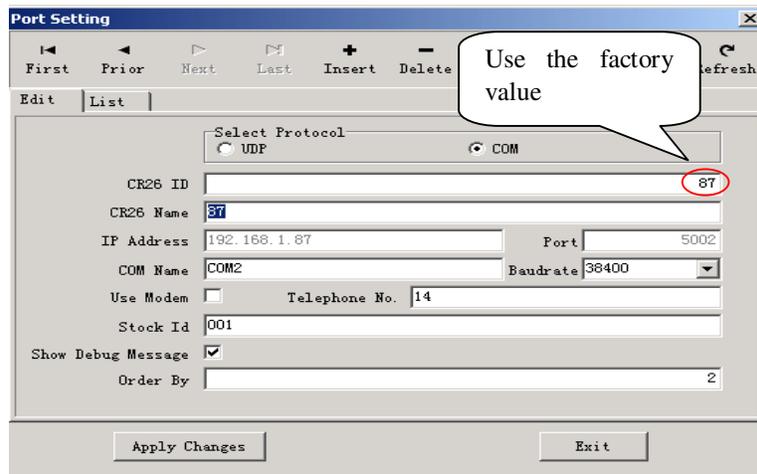
### 13.1 Link ECR to PC



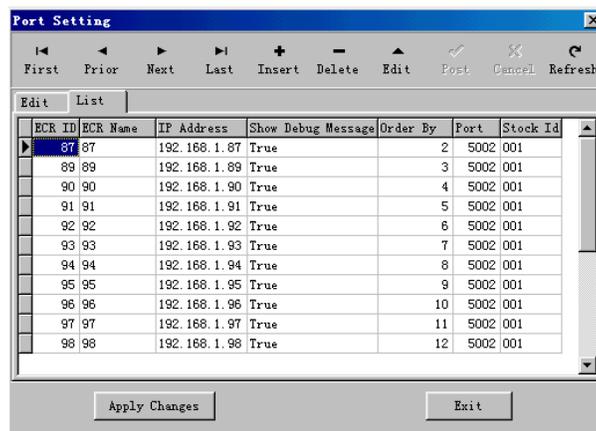
### 13.2 Port Setting

Click “System\Port Setting” to enter following interface:

At “edit” mode, ECR data can be appended, deleted or modified.

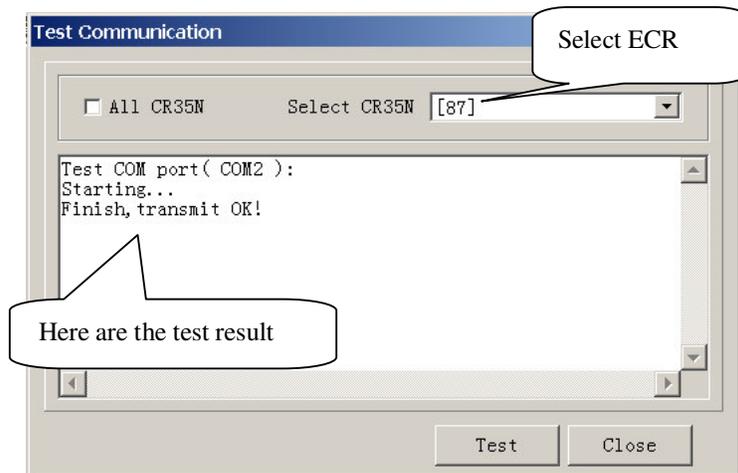


Click ‘List’ to show the ECR message.



### 13.3 Test communication

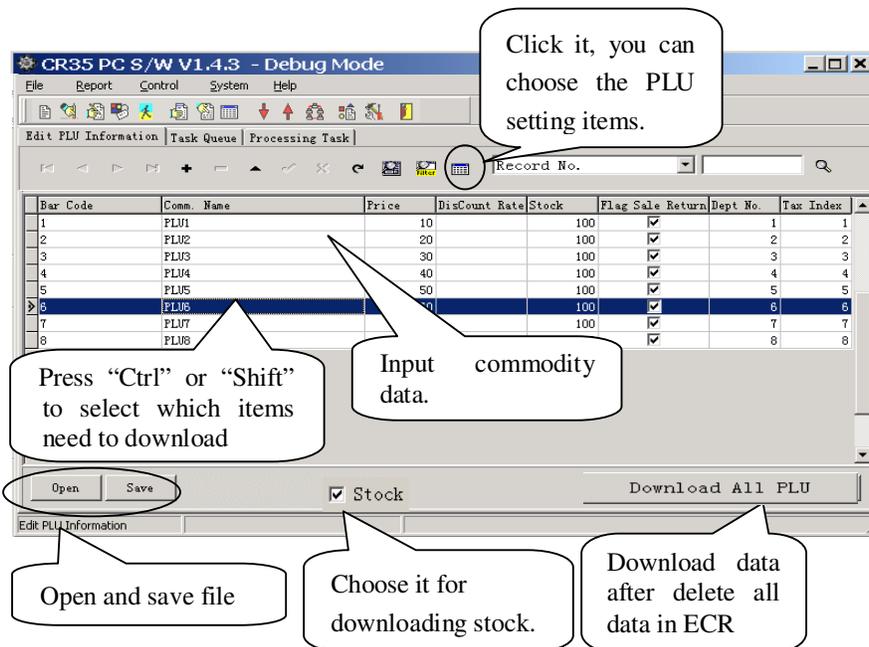
Click “control/test communication”: (before test, the 35N serial ECR must be in “ENTER PC MODE”)



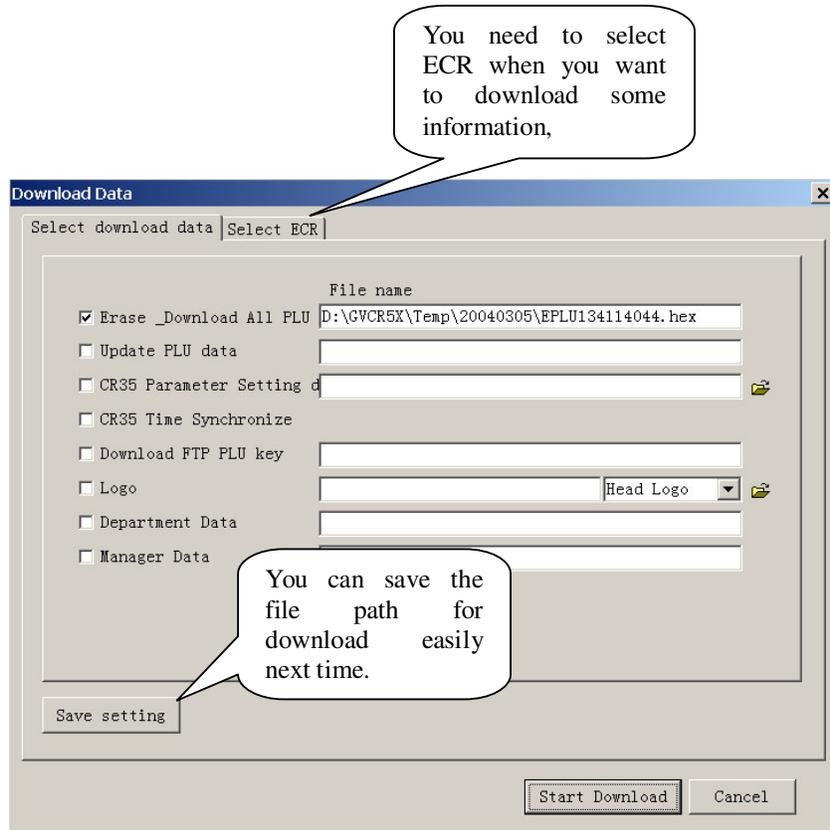
### 13.4 Edit PLU information

#### 13.4.1 PLU Edit

Click “File/PLU” to enter the following window:



**Note:** Click 'download all PLU', a window will display as below:



### 13.4.2 Parameter Setting

Click “File\CR35 parameter Setting” to enter following form:

CR35B Parameter Setting | Task Queue | Processing Task

Discount set  
 -%  +%

System Flags

- Reset receipt No. after print Z report
- Need to print subtotal
- Close printer
- Force Tender
- Allow Card Payment Change
  
- Print before CASH.
- AC lose Warning
- Press CASH to reprint last receipt
  
- ALL VOID, SAVE, RECALL need input password
- Print Barcode
  
- Allow PLU manual discount
- Allow sale after SUBTOTAL Discount.
- SUBTOTAL Discount Distribute to item
  
- PLU E/C, PLU VOID need input password
  
- The Digit of Barcode Type used for Commodity ID
  
- Retrun can pay with other payment
  
- Print Head LOGO
- Print Tail LOGO
  - Select Tail LOGO
  - LOG01
  - LOG02
  - LOG03
  
- Close sale print
- Print other tail message
  
- Not print date and time in receipt
  
- Allow negative stock
- Print to prearrange stationary bill
- Price not include tax

Header Message

Line 1

Line 2

Line 3

Line 4

Line 5

Tail Message

Line 1

Line 2

Default discount rate

These are the same with SET OPTION settings in SET mode.

Set head message

Set tail message

Barcode Type

20 [ ] 21 [ ] 22 [ ] 23 [ ] 24 [ ]  
 25 [ ] 26 [ ] 27 [ ] 28 [ ] 29 [ ]

Foreign currency

Name	Rate	Decimal	Subsidiary
1 [ ]	0 [ ]	0 [ ]	<input type="checkbox"/> Print decimal
2 [ ]	0 [ ]	0 [ ]	<input type="checkbox"/> Print decimal
3 [ ]	0 [ ]	0 [ ]	<input type="checkbox"/> Print decimal
4 [ ]	0 [ ]	0 [ ]	<input type="checkbox"/> Print decimal
5 [ ]	0 [ ]	0 [ ]	<input type="checkbox"/> Print decimal
6 [ ]	0 [ ]	0 [ ]	<input type="checkbox"/> Print decimal

Clerk Password

1 [0] 2 [0] 3 [0] 4 [0]

Other

Print Speed [1]

Round [4 Cut, 5 In] Round Position [1]

Print Font Multiple [1]

MODEM ring times [3]

Receipt Type [2]

Dollar Sign [Rs]

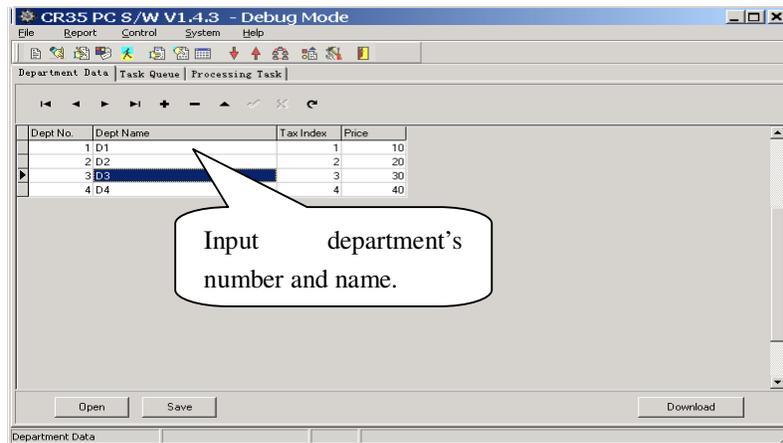
[Open] [Save] [Download]

CR35B Parameter Settin

Note: save the parameter setting as \*.pst file for future use.

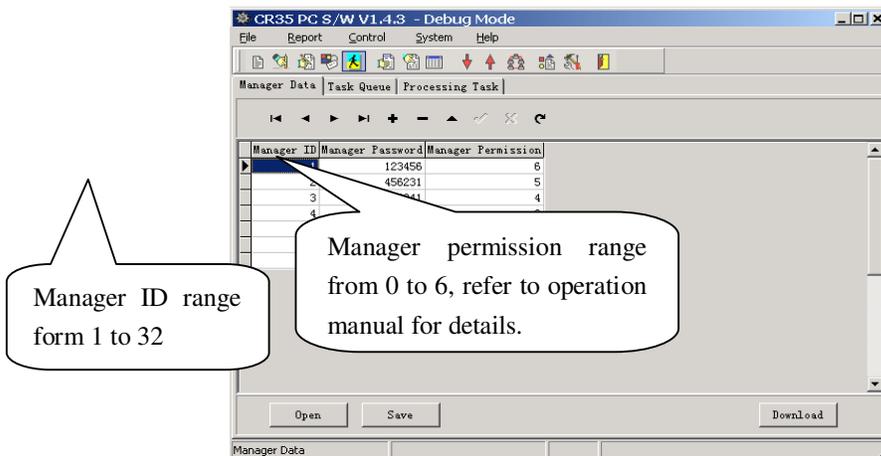
### 13.4.3 Department Setting

Click “File/department” to enter the following window:



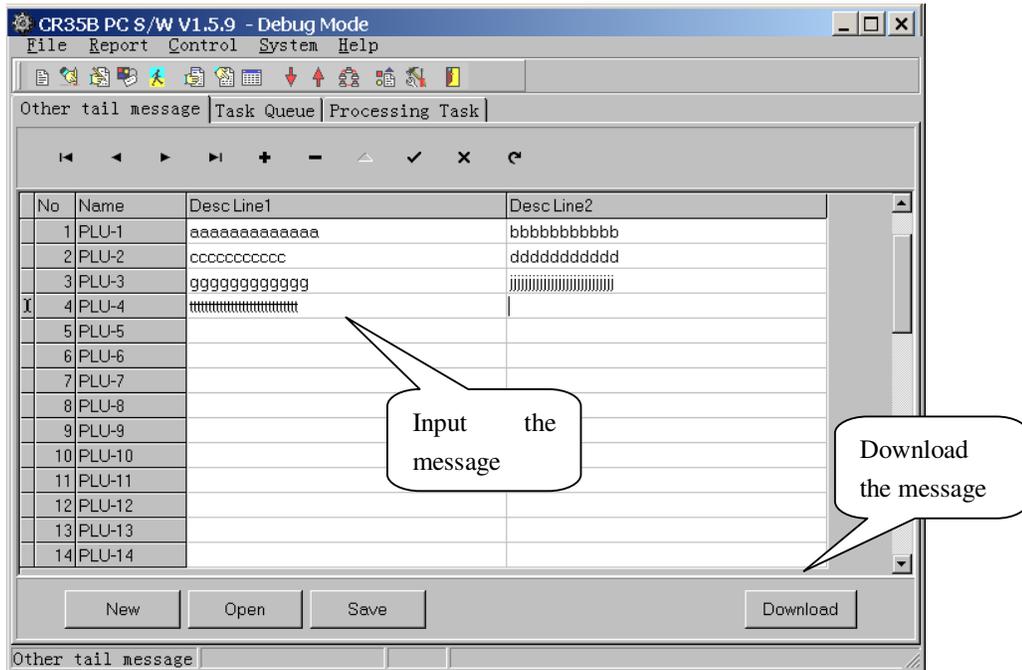
### 13.4.4 Manager Data

Click “File/manager data” to enter the following window:



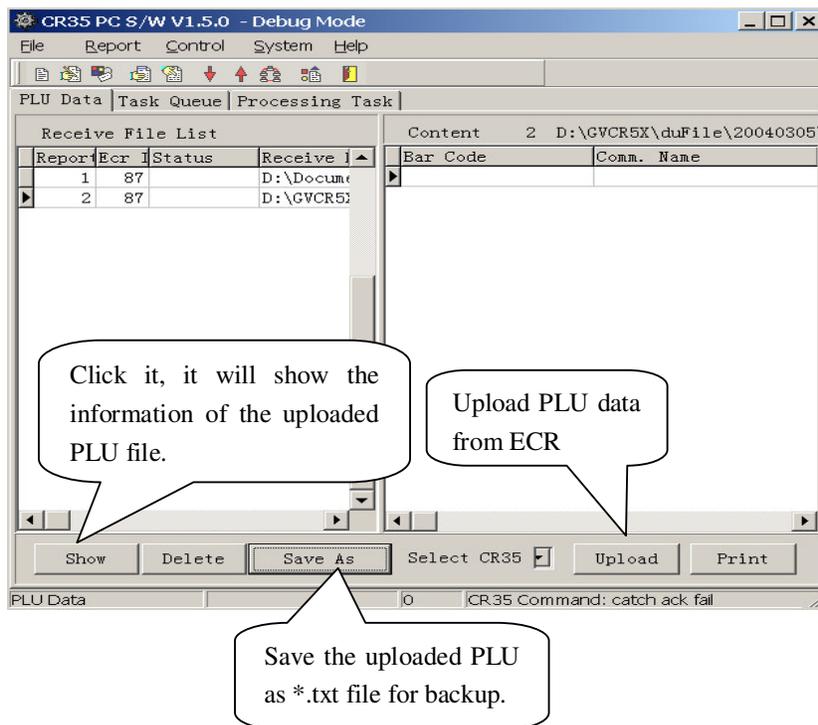
### 13.4.5 Other tail message

Click “File/other tail message” to enter the following window:



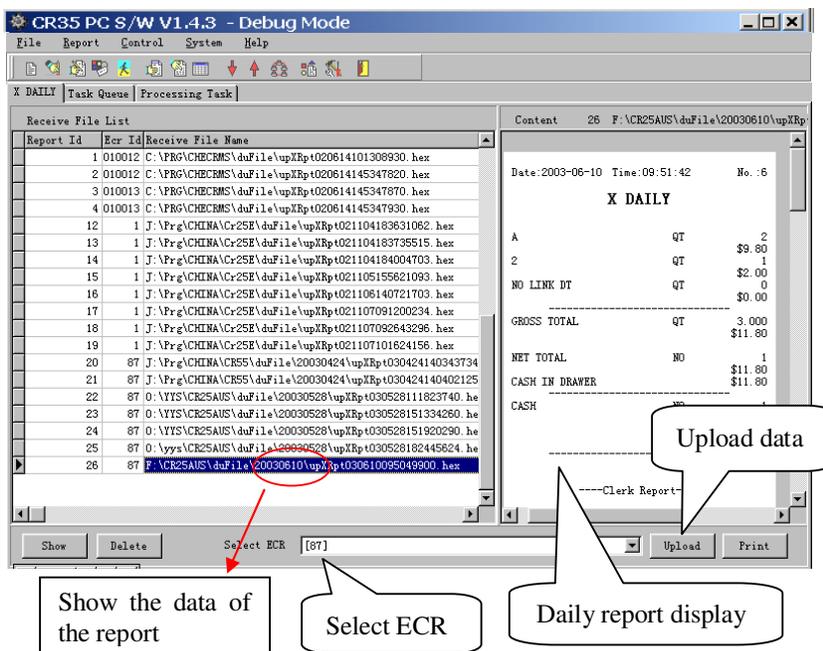
## 13.5 Report

### 13.5.1 PLU/Department Data



### 13.5.2 X Report and Z Report

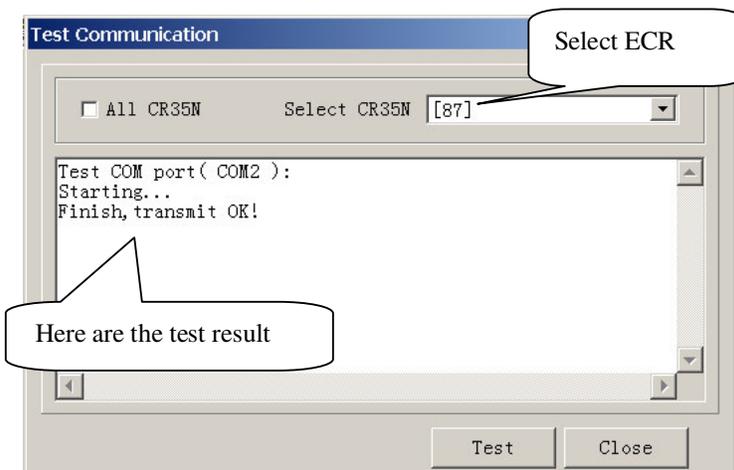
X daily report and Z daily report is almost the same, the difference between them is:  
 In X daily report, total sales sum is not set to zero after printing report, next sales sum will be accumulated.  
 In Z daily report, total sales sum is set to zero after printing report, next sales sum will be recalculated.  
 Click “report/x report (or z report)”, the following window displayed.



### 13.6 Data Control

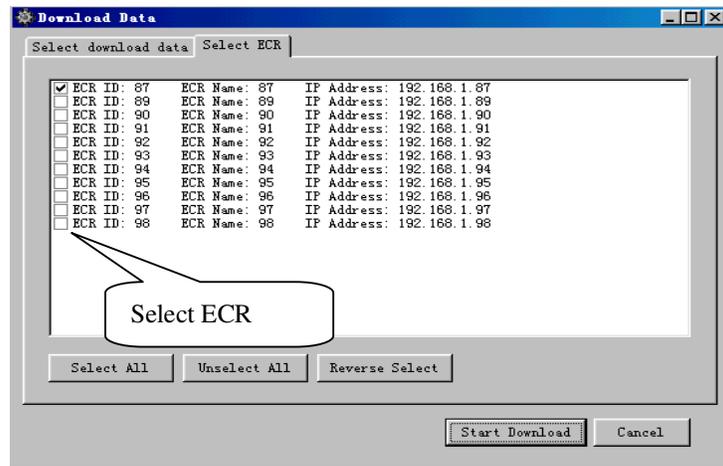
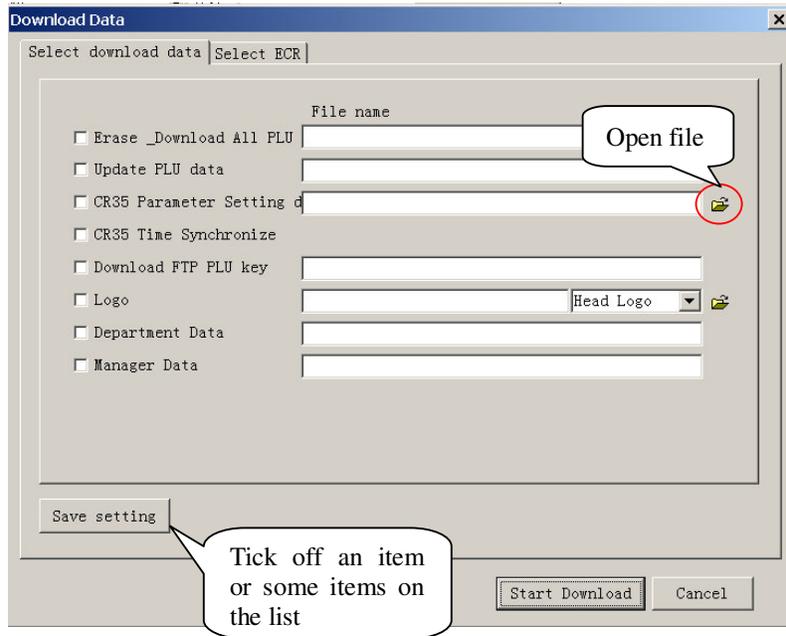
#### 13.6.1 Download Data

First, you have to test communication, (before test, the 35N serial ECR must be in “ENTER PC MODE” ) Click “control/test communication”:



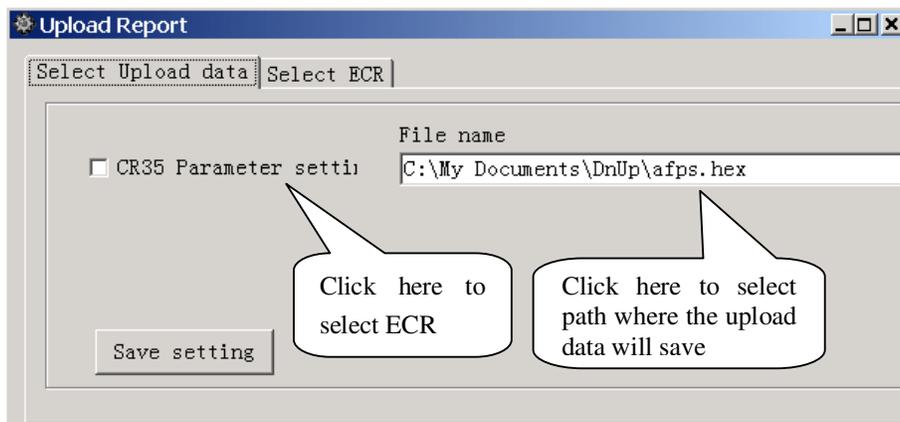
If test communication is ok, you can do the second step:  
 Click “Control\Download” to enter following interface:  
 Select the items you want to download, and open the corresponding file; click ‘select ECR’, choose one or some ECRs

that you want to download.



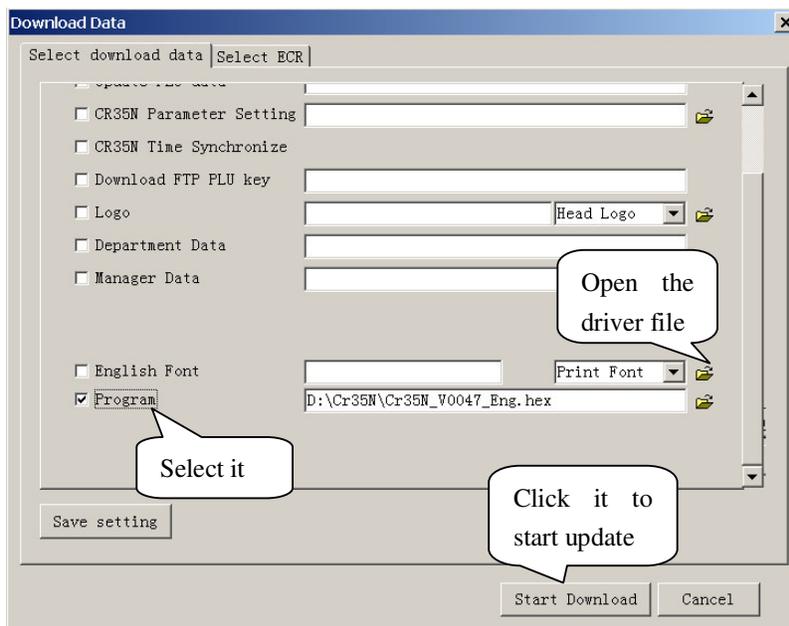
### 13.6.2 Upload Data

Click 'control\upload' to enter following interface:



### 13.7 Update Driver

Click , Press Ctrl+Alt+F8, then a form will displayed as below:

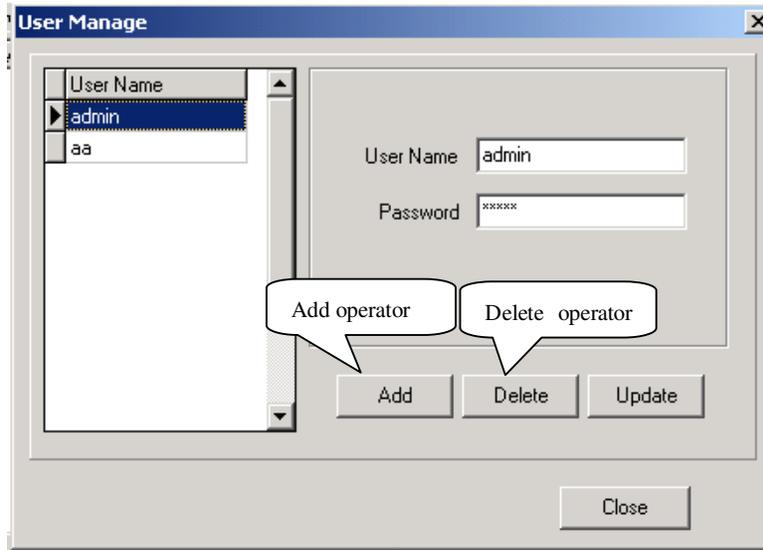


**Attention: before update ECR's driver, you must print the Z daily report.**

## 13.8 Change password

Click 'system/user manage'

1. If you login the system by manager status, the window will displayed as below:  
Here you can change the password.



2. If you login the system by operator status, the window will displayed as below, it can only change his or hers password.

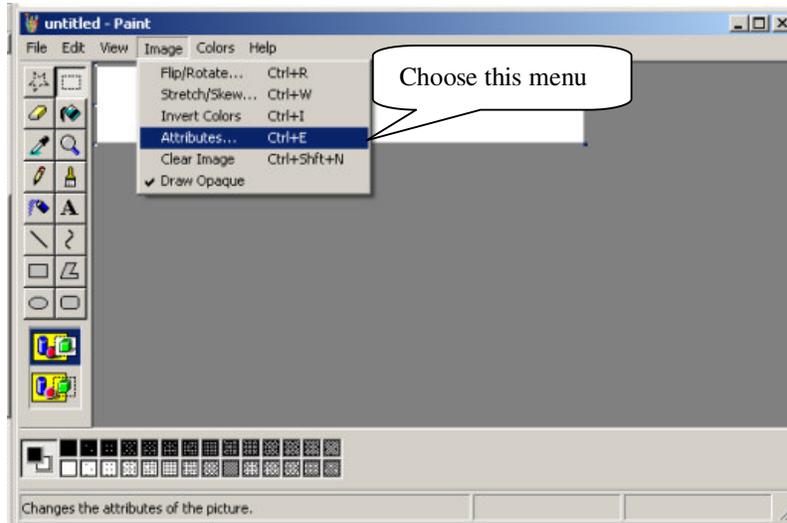


## 13.9 How to make logo

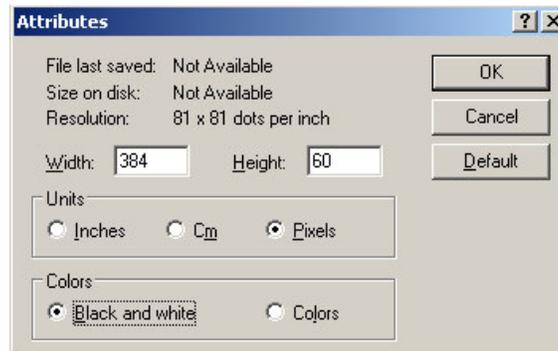
Method 1: open the file attached, there are 2 logos (open them by 'Microsoft paint'), modify them to match your thought.

Method2:

1. Open the paint program of windows, and create a new file.



2. Do the setting as the picture shows:



### 13.10 Download Logo

Head logo is about 384\*60  
 Tail logo is about 384\*80

Head logo

PINNACLE TECH  
 16/10/2000 NO:000007  
 TIME: 16.31

D\_003 ¥300.00  
 D\_004 ¥400.00  
 D\_005 ¥500.00  
 D\_006 ¥600.00

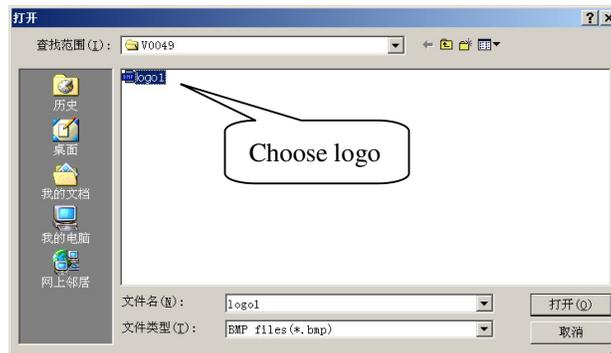
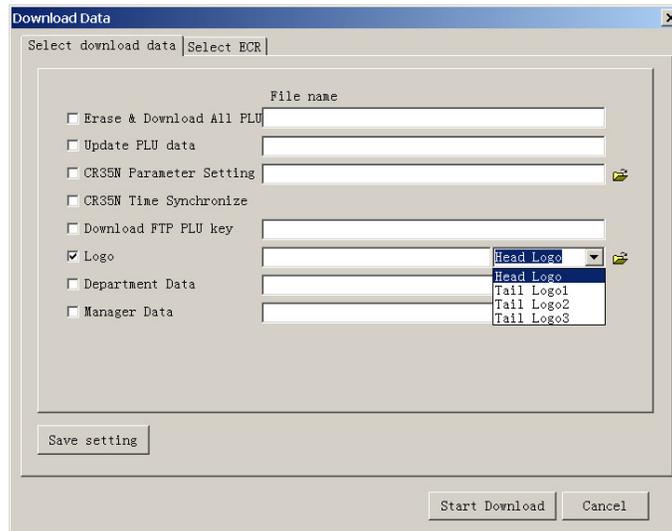
-----  
 TOTAL : ¥1,800.00

Tail logo

-----  
 CREDI : ¥1,800.00

WELCOME BACK!  
 TRAINING MODE

2. Choose the logo you want to download in communication\download logo.



## 14 ERROR INFORMATION

Format of familiar error information is ERR X

Error code and description

Error number	description
1	this function key is not available in X,Z,SET,SYSTEM SET MODE
2	clerk doesn't login
3	data input too long
4	[.] press error
5	invalid clerk code
6	invalid quantity
7	[E/C] press error
8	[- ]press error
9	[+%) press error
10	[-%) press error
11	[void] press error
12	invalid department
13	[price] press error
14	[FC] press error
15	FTP data is not available
16	[CASH] press error
17	[CARD] press error
18	[CHECK] press error
19	please print Z daily report first
20	invalid password
21	invalid ECR ID No.
22	time set error
23	PLU barcode set error
24	barcode checksum error
25	print speed set error
26	date set error
27	flash write error
28	daily report print error
29	sales item records in one receipt over 50
30	[SAVE]press error
31	save record full
32	[RECALL] press error
33	reserved
34	[CARD] press error
35	PLU not found
36	PLU full
37	reserved
38	reserved
39	reserved
40	PLU name error

---

41	password input error
42	daily report clear error
43	PLU near full
44	data input error
45	the clerk has exist
46	clerk full
47	FTP weight error
48	No check-out
49	Payment error
50	Cash in drawer is full
51	User password error
52	Cash in drawer shortage
53	R/A amount over
54	P/O amount over
55	PLU not found
56	Sale price error
57	Transaction amount overload error
58	Daily amount overload error
59	PLU report error
60	reserved
61	reserved
62	reserved
63	reserved
64	reserved
65	reserved
66	reserved
67	PLU No sale
68	No tax rate
69	Department number error
70	reserved
71	reserved
72	Down load program set error
73	reserved
74	reserved
75	reserved
76	PLU data full
77	PLU can't be return
78	part no. not found
79	part no. input error
80	no paper
81	no receipt
82	no journal
83	reserved
84	sales operation is forbidden in this mode
85	Data in nand flash error
86	Tax rate of department error

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87	Please replace stock data
88	reserved
89	Sales number error or sales No.doesn't input
90	reserved
91	Journal No. not found
92	Z1 account not found
93	reserved
94	reserved
95	Payment error
96	reserved
97	[+] input error
98	loop check error
99	communication time out
100	card isn't empty
101	invalid card NO.
102	net communication error
103	please upload the sale data first
104	net busy, MEM. Limit sale data not download
105	PLU limit sale QTY break bound
106	PLU limit sale max 80 recode in one receipt
107	PLU limit sale PC confirm error
108	RTN report overage
109	Manager No. error
110	Manager have not this preview
111	Net busy, MEM. Have to sale by normal MEM.
112	IP address conflict
113	Description No. error
114	Have Table no pay, Can't enter this function
115	No COM port found
116	External Dot printer no connect
117	Don't allow negative stock

## 15 APPENDIX

### Bar Code Type Table

This ECR support 13 digits EN-13 code. When the first digit is 2, this bar code is considered as inner code. Generally speaking, the last digit (S) used as check code. This ECR can select 10 inner bar code, which start with 2X(20~29), from the 46 types of code. Following is inner bar code, where C stand for Code, Q stand for Quantity or Weight. User can set bar code type in SET mode.

Barcode type	Start code	code	Weight or Qty.	Check sum
0	2X	C	QQQQQQQQQ	S
1	2X	C	QQQQQQQQ.Q	S
2	2X	C	QQQQQQQ.QQ	S
3	2X	C	QQQQQQ.QQQ	S
4	2X	CC	QQQQQQQQ	S
5	2X	CC	QQQQQQQ.Q	S
6	2X	CC	QQQQQQ.QQ	S
7	2X	CC	QQQQQ.QQQ	S
8	2X	CCC	QQQQQQQ	S
9	2X	CCC	QQQQQQ.Q	S
10	2X	CCC	QQQQQ.QQ	S
11	2X	CCC	QQQQ.QQQ	S
12	2X	CCCC	QQQQQQ	S
13	2X	CCCC	QQQQQ.Q	S
14	2X	CCCC	QQQQ.QQ	S
15	2X	CCCC	QQQ.QQQ	S
16	2X	CCCCC	QQQQQ	S
17	2X	CCCCC	QQQQ.Q	S
18	2X	CCCCC	QQQ.QQ	S
19	2X	CCCCC	QQ.QQQ	S
20	2X	CCCCCC	QQQQ	S
21	2X	CCCCCC	QQQ.Q	S
22	2X	CCCCCC	QQ.QQ	S
23	2X	CCCCCC	Q.QQQ	S
24	2X	CCCCCC	QQQ	S
25	2X	CCCCCC	QQ.Q	S
26	2X	CCCCCC	Q.QQ	S
27	2X	CCCCCC	0.QQQ	S
28	2X	CCCCCC	QQ	S
29	2X	CCCCCC	Q.Q	S
30	2X	CCCCCC	0.QQ	S
31	2X	CCCCCC	0.0QQ	S
32	2X	CCCCCC	Q	S
33	2X	CCCCCC	0.Q	S
34	2X	CCCCCC	0.0Q	S
35	2X	CCCCCC	0.00Q	S
36	2X	CCCCCC		S
37	2X	C	TTTTTTT.TT	S
38	2X	CC	TTTTTT.TT	S
39	2X	CCC	TTTTT.TT	S

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40	2X	CCCC	TTTT.TT	S
41	2X	CCCCC	TTT.TT	S
42	2X	CCCCCC	TT.TT	S
43	2X	CCCCCC	T.TT	S
44	2X	CCCCCC	0.TT	S
45	2X	CCCCCC	0.0T	S

## 15.1 Glossary

**PLU:** Price Look Up – i.e. items with a preset price.

**RA:** Receive on Account outside of sales

**PO:** Paid Out outside of sales

