

ELECTRONIC CASH REGISTER

USER MANUAL

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Introduction

Thank you for choosing the electronic cash register DP1000EN series. This manual provides a description of the functions and handling of this register and should be read carefully to ensure optimum performance. Since every consideration has been given to safety and reliability, there is no danger of damaging the machine by incorrect operation.

Please refer to this manual whenever you have any questions concerning the machine. This machine has been manufactured under strict quality control and should give you full satisfaction.

Precautions

The ECR is a precision machine. Please handle it carefully considering the following guidelines.

Remarks on the location

- Place it where no unusual temperature changes are expected.
- Place it on a flat and level surface with little dust, humidity, vibration, etc.
- Keep it away from water sources.
- Do not use it in direct sunlight for a long time.
- Ensure proper ventilation so that the machine is not exposed to excessive heat.
- Be certain to connect a grounding wire to prevent the generation of static electricity and noise troubles. Never share the same power outlet with many other electric appliances.
- Do not use it when it is malfunction ,please cut off the power supply immediately.

Remarks on operating the ECR

- The keys on the keyboard function with a light touch. Avoid pressing the keys too hard.
- Do not handle the machine with wet hands, since this may cause electrical malfunctions and corrosion of parts.
- Do not apply thinner, benzene, or other volatile materials to the cabinet or other plastic parts. Such liquids will cause discoloration or deterioration of the cover. If dirty, wipe off with a piece of cloth soaked in a neutral detergent and wrung out thoroughly.
- Turn off the power switch when the operations are over for the day.
- Ask our dealers to provide periodical maintenance to ensure the optimum performance of the machine.
- As for other operations, follow the instructions in this manual.

Overview

The printer

The ECR use a thermal printer. The thermal paper is 58mm width.

The printer has no-paper detect sensor. If no paper detected by ECR, it will show E301 "no paper" Error.

The ECR has temperature detect circuits. If printer head temperature is over 60 or less than 0 , it will show E000 "printer error", the printer will not work until temperature various from 0-60

The buzzer

When error happens, the buzzer will be active. To stop buzzer, Press [Clear] key. [Clear] key normally used to clear operation error.

Some error clear require press [Error correct] key. For example, PC linking error showed clear by three time press [Error correct] key.

The Serial com port

The female SCOM is named SCOM1. The SCOM1 is configured to PC and the SCOM2 can be linked with barcode reader, external slip printer, and electronic scale.

The PS/2 port

The PS/2 port is configured to PS/2 scanner. It can be configured to PS/2 keyboard. (PC keyboard)

The USB port

The USB port is configured to PC only. It is a USB device.

The front display

The ECR use a 128*64 operator display. It can display 100 characters. (5rows, 20 char per row).

The customer display

The ECR use high light numeric LED customer display.

The cash drawer

The ECR use a 3B5C cash drawer. Various cash drawer is optional.

The cash drawer release lock

The lock with 2 positions: Lock and release.

The keyboard

The ECR has 60 keys. The keyboard can be easily redefined according to your various requirements. The details you may see the keyboard chapter.

The specifications

	Daily/Period-to-date			
	Totalizer		Counter	
	Digit	Qty	Digit	Qty
Department	9	64	6+2*	64
%1,%2,%3	9	3	6	3
%(item)	9	3	6	3
%(subtotal)	9	3	6	1
(-)	9	1	6	1
(-)(item)	9	1	6	1
(-)(subtotal)	9	1	6	1
(+)	9	1	6	1
(+)(item)	9	1	6	1
(+)(subtotal)	9	1	6	1
Clerk	9	9	6	9
Hourly Activity	9	24	6	24
Received On Account	9	1	6	1
Paid Out	9	1	6	1
Media totals	9	9	6	9
Cash In Drawer	9	1	--	--
Net Sales	9	1	--	--
NRGT	16	1	--	--
Void	9	1	6	1
Transaction void	9	1	6	1
Return Merchandise	9	1	6	1
VAT	9	6	6+2	6
TAX	9	3	6+2	3
Customer (VIP)	9	2048	6	2048
Foreign Currency	9	9	6	9
Receipt Number	--	--	4	1
Reset Number	--	--	4	1

*6+2means: 6 digit integral and 2 digit decimal (-999999.99 to 999999.99)

Amount	:9digits
Preset price	:8 digits
Quantity	:7 digits(XXXX.XXX)
% Percent	:5 digits(XX.XXX)
VAT rate	:4 digits(XX.XX)
TAX rate	:5 digits(XX.XXX)
Transaction void /2 nd receipt max receipt lines	:100
Memory billing max record items	:50

The primary operations(important)

This chapter is very important, it is the base to use DP1000EN. Please read carefully.

Limitation and password

Limitation:

The ECR has supervisor and clerks. The supervisor has full management power, can assign clerks limitations, can enter settings mode (programming mode), and can view PLU reports with cost and profits, while the clerks can't do that.

The difference between supervisor and the clerks

The functions	Supervisor	Clerks
Enter settings (P) mode	Yes	No
Enter registration (R) mode	Yes	Yes(limited)
Enter Reports (X) mode	Yes	Yes(limited)
Enter Reports clear (Z) mode	Yes	Yes(limited)
Enter View data (V) mode	Yes	Yes
Print out PLU Cost and profit on report	Yes	No

The following operation: Error correct, return merchandise, void, transaction void, %, (+), (-), price change and P/O is default enable for each clerk, but can be assigned by supervisor. To list X mode or Z mode report is also controlled by supervisor.

Please refer to clerk programming.

Password:

The supervisor default password is 888888; please change to other digits before using the ECR. To change supervisor password:

P mode

The clerk's password default is 0000. When each clerk login, if the password is default 0000, only clerk ID is required. Each clerk can change password by herself. To change clerk password:

R mode (9999) (original password) (new password) (new password again)

(During above procedure, press [Trans void] will abort)

Menu keys



Cursor left or cursor up key



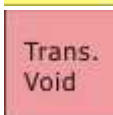
Cursor right or cursor down key



Escape key. To back to top menu level or discard changes



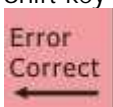
Enter key. Enter next menu level or confirm changes



End key. Quick back to Registration mode

Editor keys

Shift key during text input mode. Switch between ABC,abc,num and symbol input mode.



Backspace key during text input mode. To delete a character or numeric input.

Data retain

Note: The ECR has built in Ni-MH battery, it provides power for RTC and data retaining. The ECR assure 3 months power supply. If the ECR hasn't powered over 3 months, the ECR may require all clear. (Normally 1 year no problem.)

Restore default keyboard

Press "1" and power on, can restore default keyboard layout. This is useful if wrong redefine the keyboard by accident. It is also used for initial reset, to smooth unknown errors.

The keyboard

The default keyboard layout

A Dept01	B Dept05	C Dept09	D Dept13	E Dept17	F Dept21	G Dept25	H Dept29	Paper Feed	Receipt On/Off	PLU	X/Time	Clerk	Shift ↵
I Dept02	J Dept06	K Dept10	L Dept14	M Dept18	N Dept22	O Dept26	P Dept30	Trans. Void	7	8	9	%I	R/A ↑
Q Dept03	R Dept07	S Dept11	T Dept15	U Dept19	V Dept23	W Dept27	X Dept31	Return Merch.	4	5	6	#/NS	P/O ↓
Y Dept04	Z Dept08		# Dept16	!	* Dept24	(< Dept28	> Dept32	Error Correct ←	1	2	3	Subtotal Esc	
								Clear	0	00	.	Cash	Enter →

NOTE: THIS DEFAULT KEYBOARD MIGHT NOT SAME WITH YOUR ECR

The key function description:

NUMERIC KEYS: These keys are used to enter amounts, quantities, percentage rates, etc. The leading zeros entered prior to a 1 to 9 entry are ignored in case R mode.

[00](Double Zero) KEY: This key is used to enter "00" as numeric key.

[DECIMAL POINT] KEY : There are two uses for this key. One is to provide fractional quantities during a multiplication operation, and the other is to enter fractional percentages in percent operations. Note: also it can be used for enter fractional amount if "amount can be entry by decimal"(P mode settings) .

[%]KEYS: These keys allow applying a discount or adding tax to previously entered items. The rate can be preset or manually entered.

[#/NO SALE] (Number/no sale) KEY: This key has two functions. One is to allow the entry of up to 9 digits to be recorded on the receipt and the other is to open the cash drawer without recording a sale.

[SUBTOTAL] KEY: This key displays and prints a subtotal of listed items being accumulated.

[CASH TEND](T1code) KEY: It is used to record the cash amount paid by the customer. If the amount of cash paid is greater than the sale amount, the register computes and displays the amount of change due the customer. Another function is described above chapter(menu keys).

[CREDIT](T2code) KEY: It is used to record payment of sale by a credit card. If the amount of charge paid is greater than the sale amount, the register computes and displays the amount of change due the customer. Another function is for printing receipt after sale. The ECR can print max. 3 receipt after sale.

[CLERK I.D.] KEY: This key is functioned to record which clerk is operating the machine during a transaction or when the cash drawer is opened.

[P/O](PAID OUT) KEY: This key is used when some amount of money is taken out from the register for a reason other than a sales transaction.

[R/A](Received On Account) KEY: This key is used when some amount of money is received on account, to enter cash and/or miscellaneous tender added to the drawer outside of a sale.

[PLU](Price Look Ups) KEY: PLU is the selling item coded with number. A PLU usually associated with a preset price. This key retrieves the preset price from the PLU table in the register memory and records the item. Note: PLU price can be opened, that is OPEN PLU.

[AMOUNT] KEY: To be used for OPEN PLU operation.

[RCPT ON/OFF](Receipt on/off) KEY: When once this key is pressed, the register stops issuing receipts. When the key pressed again, the register issues receipts. It is only functional between transactions.

[X/TIME] KEY: This key has two functions, straight multiplication and time displaying. When this key is pressed between transactions in the "REG" mode, it will display the time.

[(-)]KEY: This key is used when some amount of money is subtracted from a sale or given back to a customer for some reason other than an item being returned.

[FEED]KEY: Used for paper feed. This key is operable in all modes.

[R.M.](Return Merchandise) KEY: This key is used when an item sold by the store is returned for some reason and the amount of the sale is given back to the customer.

[E.C.](Error correct) KEY: This key can be used directly after the item has been entered incorrectly during transaction. Another function is used for "Backspace" key. Note: in case of communication error between ECR and PC, 3 time press this key can clear error display.

[VOID]KEY: This key can be used directly after the item has been entered incorrectly, or to remove an item entered earlier in the sale. It only works before finalizing. (Named indirect void)

[T. VOID](Transaction void) KEY: This key can be used directly void the whole receipt.

[CLEAR] KEY: This key has two basic functions. One is to remove an entry made on the numeric keys or a modifier key before it has been printed by another function key, and the other is to correct a machine error condition that has caused the error tone to sound.

[Shift] KEY: This key has two functions. One is for department shift. Another is change text input mode.

[C/N](Custom no) KEY: This key is for customer management.

[T/N](Table no) KEY: This key is for memory billing function.

Redefine keyboard

The ECR keyboard is very flexible. All the keys can be redefined according your requirement. For example, if you need [amount] key to change PLU price temporarily. Since [amount] function key is not on default keyboard, you should redefine the key:

P mode function keys keyboard config redefined function key, scroll to choose [amount] key, the ECR prompt "Press the key", press the key which will be defined as [amount] key.

The full function key see Settings (P mode) chapter, Note2: Free function key defination

Restore factory keyboard layout

Press numeric "1" and powering on, the ECR will show "Restore KB, press 1", means press "1" again will restore default keyboard.

Registering Operations(R mode)

All of the following operations are in registration mode(R mode).

Clerk or supervisor login and logout

Any registering operation is associated to clerk or supervisor.

Login procedure:

The ECR shows "Clerk /supervisor ID:",

Enter clerk ID or supervisor password, then click [Clerk ID]key.

Logout procedure:

Click [Clerk ID] key directly.

Department Entry

Each department key is preprogrammed as the "PRESET" type (with a price programmed on the key) or "OPEN" type (with no price programmed on the key). Perform operation depending on the type selected.

PRESET type

Procedure

1. Press the [Department] key
(Example: Department01)

Clerk :Clerk 05	MachNo:0001
Dept06	50.00

OPEN type

Procedure

1. Input price (Example: "50.00").
2. Press the [Department] key
(Example: Department06)

PLU Entry

Each PLU is preprogrammed as the "PRESET" type (to use PLU entry must be programmed at first) ,the "OPEN" type (with price changed temporarily ,while this PLU has been programmed). Perform operation depending on the type selected.

PRESET type

Procedure

1. Input PLU code (Example: "6935336692015").
2. Press the [PLU] key.

OPEN type

Procedure

1. Input price (Example: "10.00").
2. Press the [amount] key.
3. Input PLU code (Example: "6935336692015").
4. Press the [PLU] key.

Clerk :Clerk 05	MachNo:0001
#6935336692015	
BEEF	10.00

Repeat Entry

To repeat the same item, simply press the [department] or [PLU] key.

```
Clerk :Clerk 05 MachNo:0001
#6935336692015
BEEF          10.00
#6935336692015
BEEF          10.00
```

(Example for repeat entry)

Quantity Extension (Multiplication)

PRESET type

Procedure

1. Input quantity. (Example: "2").
2. Press the [X/Time]key.
3. Press the[Department] key or inputs PLU code,and then press the [PLU] key. This example is for PLU sales:

```
Clerk :Clerk 05 MachNo:0001
  2X          10.00
#6935336692015
BEEF          20.00
```

(Example for multiplication)

OPEN type

Procedure

1. Input quantity. (Example: "2").
2. Press the [X/Time] key.
3. Press price (Example: "50.00").
4. Press the [Department] key

```
Clerk :Clerk 05 MachNo:0001
  2X          50.00
Dept01       100.00
```

(3-4: Change to: puts PLU code then
Press the [PLU] key in case of PLU operation)

Single-Item Department or Single-Item PLU

If a department (or PLU) is programmed as "Single-item", the department (or PLU) entry sequence will immediately finalized the sale as cash sale when outside a sale. It is useful for quick register a single item)

Note

If inside a sale (or the receipt start with a Department (or PLU) is not programmed like "Single-item"), the aforesaid won't be activated.

Clerk :Clerk 05	MachNo:0001
Dept06	2.00

Item	1
TOTAL	2.00
CASH	2.00
Tue. 12/12/2006 11-54 0008	

(Example for single item)

Error Correct (direct correction)

Procedure

Press the [Error Correct] key immediately after the last registration (Department, PLU, Percentage, Amount Discount, Charge, etc.).

Clerk :Clerk 05	MachNo:0001
Dept06	5.00
E.C.	
Dept06	-5.00

(Example for Error correct)

Clerk :Clerk 05	MachNo:0001
Dept05	2.00
-10.000%	
% 1	-0.20
E.C.	
% 1	0.20

(Example for Error correct in case of wrong %)

Void (indirect correction)

After the receipt beginning, it is possible to void an amount concerning to a Department (or PLU) which is previous registered.

Another way to void itmes, during registration, press[UP] or [Down] key to scroll registered items, press[Error correct]key to void the current item.

Example

1. Press[Void] key.
2. Inputs amount (Example: "50.00").
3. Press the [Department] key (Example: Department 5).
(50.00-Department5 is previous registered)

Clerk :Clerk 05	MachNo:0001
Dept05	50.00
Dept01	12.55
Void	
Dept05	-50.00

(Example for VOID)

Returned Merchandise

It is possible to register the damaged or return goods to the ECR.

Procedure

1. idle mode(not during registration)
2. Press the [Return merchandise] key.
3. Input the amount concerning the Returned Merchandise (Example: "50.00").
4. Press the [Department] key concerning to the goods (Or input PLU code then press the [PLU] key).
5. Press the [Subtotal] key
6. Press the [Cash] key

Clerk :Clerk 05	MachNo:0001
R.M.	
Dept06	-50.00
R.M.	
BEEF	-10.00
Subtotal	-60.00

Item	2
TOTAL	-60.00
CASH	-60.00
Tue. 12/12/2006	12-05 0010

(Example for Return merchandise)

Note

This operation can not accept %, (+), (-) operation
This operation can be abort by press [Transaction void] key.

This operation has record list. The Return Merchandise record list can be done by X mode [R.M. detail report]. It also has Return Merchandise counter and amount record on the full terminal report.

The ECR has the ability to record 200 records. When it reaches to 195 records, a warning message E220 will happen. In this case, to clear the records, just by Z mode [R.M. detail].

Percent Discount, Percent Charge

It's possible to execute the reductions (or additions) of price in percentage. There are two cases:

- A) After press the [Department] key (or the [PLU] key). (item % we called)
- B) After press the [Sub Total] key. In this case the deducted or the added amount will be shared proportionally between all the Departments (or PLUs) used until that point of the receipt. (subtotal % we called)

Procedure

Item%:

- 1. After the registrations on the Department (or PLU), input the rate value of the percentage or to press directly the [%] key with programmed rate.
- 2. Press the [%] key (Whose sign +/- it has been programmed).

Subtotal %:

- 1. After the registrations on the Departments or of the PLU, press the [Sub Total] key.
- 2. Input the rate value of the percentage or to press directly the [%] key with programmed rate.
- 3. Press the [%] key (Whose sign +/- it has been programmed).

Clerk :Clerk 05	MachNo:0001
Dept05	2.00
-10.000%	
% 1	-0.20

(Example for Item discount)

Clerk :Clerk 05	MachNo:0001
Dept05	2.00
Dept06	8.00
Subtotal	10.00
Subtotal	10.00
-10.000%	
% 1	-1.00

(Example for subtotal discount)

Amount Discount (-)

It's possible to execute amount discount. There are two cases:

- A) After press the [Department] key (or the [PLU] key).(item(-) we called)
- B) After press the [Sub Total] key. In this case the amount discount will be shared proportionally between all the Departments (or PLUs) used until that point of the receipt.(subtotal (-) we called)

Procedure

Item(-)

1. After the registration on the Department (or PLU), input the amount to deduct
2. Press the [(-)] key

Subtotal (-)

1. After the registrations on the Departments (Or PLUs). Press the [Sub Total] key.
2. Input the amount to deduct
3. Press the [(-)] key

Clerk :Clerk 05	MachNo:0001
Dept05	100.00
(-)	-5.00

(Example for item (-))

Additional charge (+)

It's possible to execute additional charges. There are two cases: ,

- A) After press the [Department] key (or the [PLU] key).(item (+) we called)
- B) After press the [Sub Total] key. In this case the additional charge amount will be shared proportionally between all the Departments (or PLUs) used until that point of the receipt.(subtotal (+) we called)

Procedure

Item(+):

1. After the registration on the Department (or PLU), input the amount to add .
2. Press the [(+)] key

Subtotal (+)

1. After the registrations on the Departments (or PLUs). Press the [Sub Total] key
2. Input the amount to add
3. Press the [(+)] key

Clerk :Clerk 05	MachNo:0001
Dept05	100.00
(+)	5.00

(Example for item (+))

Numeric code print

It's possible to print, at anytime during the receipt, a numeric codes for internal managerial using.

Procedure

1. Input the code (Example: "123456").
2. Press the[#/NS] key.

Clerk :Clerk 05	MachNo:0001
Dept05	20.00
#	123456

(Example for Numeric code print on the receipt)

Transaction void

It is possible to activate the Void of the complete receipt, canceling all the executed registrations and closing the receipt with the Total amount to zero.

For obvious reasons of management of the sales movements inside to ECR's memory, a limit about the number of registrations on a receipt after which the receipt void will not be possible exists.

Such limit is of 99 registrations (Receipt lines), to the attainment of which the ECR will visualize the message "Item overflow" on the display and will emit one acoustic signal. Continuing with other registrations after the signal will be lost the possibility to execute the complete Receipt Void in automatic mode.

It's possible by the configuration of Receipt Void, to print on receipt the detail of the operations Voided or only the complete amount Voided. Please refer to page 48.

Example

1. To execute registrations (Max 99) by the functions available on the ECR
2. Press the [Transaction Void] key

Clerk :Clerk 05	MachNo:0001
Dept01	5.00
BEEF	10.00
Dept02	5.50

Transaction void	
Dept01	-5.00
BEEF	-10.00
Dept02	-5.50
Item	0
TOTAL	0.00
Tue. 12/12/2006 12-30 0012	

(Example for detail transaction void)

Clerk :Clerk 05	MachNo:0001
Dept01	5.00
BEEF	10.00
Dept02	5.50
Tvoid amount	0.00
Item	0
TOTAL	0.00
Tue 12/12/2006 12-33 0013	

(stub transaction void)

Multi-Tendering

Procedure

1. After the last registrations, Press the [Sub Total]key.
2. Input the amount received by Check (Example: The [Total 2] key).
3. Press the [Total 2] key. (Press [subtotal] key, the display show remain amount to be tend)
4. Close the receipt by the [Total 1 (Cash)] key

Clerk :Clerk 05	MachNo:0001
Dept01	15.00
Subtotal	15.00

Item	1
TOTAL	15.00
Tot2	5.00
Cas h	10.00
Tue 12/12/2006 12-38 0024	

(Example for multi-tendering)

Payment by foreign currency

Procedure

1. After the last registrations press the [Sub Total] key.
2. Press the [Foreign Currency] key (On the display will appear the equivalent value in currency, also with eventual decimals).
3. Input the amount received by foreign currency also with decimals.
4. Press the [Total 1 (Cash)] key.

Clerk :Clerk 05	MachNo:0001
Dept01	100.00
Subtotal	100.00

Item	1
TOTAL	100.00
USD	
15.00	
Cash	118.35
Change	18.35
Tue 12/12/2006 13-12 0100	

(Example for FC payment. We programmed 1USD=7.89local, FC1 used as USD)

Note

- It's possible to record mixed payments in various foreign currencies during one same receipt
- The change due will be always calculated in local currency

Received-on-Account

Procedure

1. Input the amount (Example: "20.00").
2. Press the [R/A] key.
3. Close the receipt with a Media Total (Not Credit)

Clerk :Clerk 05	MachNo:0001
R/A	20.00
Cash	20.00
Tue 12/12/2006 14-10	0025

(Example for R/A)

Paid-Out (Local Currency)

Procedure

1. Input the amount to draw (Example: "200.00").
2. Press the [P/O] key.
3. Close the receipt with a Media Total (Not Credit)

Clerk :Clerk 05	MachNo:0001
P/O	200.00
Cash	200.00
Tue 12/12/2006 14-10	0026

(Example for P/O)

Stub receipts(2nd receipt, double receipt)

After to have concluded a transaction with one of Totals closing, press the key correspondent to Total2. The stub receipt in detailed mode will print.

Example

1. Input 5000 then press the [Department 5] key.
2. Input 7000 then press the [Department 6] key.
3. Input 3000 then press the [Department 4] key.
4. Input 4000 then press the [Department 1] key.
5. Press the [Sub Total] key.
6. Press the [Total 1 (Cash)] key (First receipt printing).
7. Press the [Total 2] key.(here Tot2 can press max. 3 time to copy 3 PCS 2nd receipt)

Clerk :Clerk 05	MachNo:0001
Dept05	50.00
Dept06	70.00
Dept04	30.00
Dept01	40.00
Subtotal	190.00

Item	1
TOTAL	190.00
Cash	190.00
Tue 12/12/2006 14-38 0032	

*****COPY RECEIPT*****	
Clerk :Clerk 05	MachNo:0001
Dept05	50.00
Dept06	70.00
Dept04	30.00
Dept01	40.00
Subtotal	190.00

Item	1
TOTAL	190.00
Cash	190.00
Tue 12/12/2006 14-38 0032	

For obvious reasons of the ECR's memory dimension, there is a limit about the number of registrations on a receipt after which the detailed stub receipt will not be possible. Such limit is of 99 registrations (receipt lines), to the attainment of which the ECR will visualize the message blinking on the display and will emit one acoustic signaling.

Continuing with other registrations after the signal will cause the losing of the possibility to execute the detailed stub receipt, in any case the stub receipt executed after this signal will contain only the previous receipt Total.

Visualization of last sale amount

It's possible, at the end of one receipt, to recall on the clerk's display the amount of the last sale. In order to make this, it'll be sufficient to press the [Total 1 (Cash)] key.

Change on display(Change after sale)

It's possible to visualize the amount concerning to the change without that this comes be printed on receipt. It is sufficient, after to have closed the receipt normally, to input the amount received from the customer and to press the [Total 1 (Cash)] key.

Cash declaration

This operation can be executed from the clerk before daily full terminal report. If it is repeated, the last declaration executed will be that effectively valid.

Procedure

1. Input the code 9999
2. Press the [# / N S] key
3. To input the number of the bank notes or of the coins
4. Press the [X / Time] key
5. Input the amount or the bank note/coin's value
6. To press a [Total] key for the local currency
7. To repeat from step 3 for each bank note or coin
8. Press the [Sub Total] key

Clerk : Clerk 05	MachNo: 0001
** CCD **	
2 X CASH	10.00
10 X CASH	100.00
2 X USD	1.00
1 X CREDIT	20.00
CCD Total	1035.78
	20.00
Tue 12/12/2006 12-45 0038	

(Example for CCD function)

Departments shift

The [Shift] key must be pressed immediately before the [Department] key of reference.

Note

VAT data printing on receipt

It's possible to print VAT data on the receipts in two different ways. In fixed way (printing therefore VAT data always on all the receipts produced) by the settings of "Automatic VAT data print" (P-printing-profiles-auto VAT data print) or by the press of [VAT Printing] key (printing therefore VAT data only on the wished receipts).

Procedure

1. To execute the registrations inside of the receipt
2. Press the [Sub Total] key
3. Press the [VAT Printing] key
(not present like default keyboard)
4. Close the receipt.

Clerk :Clerk 05	MachNo:0001
Dept02	20.00
Dept01	10.00
Dept03	30.00
Subtotal	60.00

VAT Net sales	9.35
VAT1 7.00%	0.65
VAT Net sales	17.54
VAT2 14.00%	2.46
VAT Net sales	28.30
VAT3 6.00%	1.70
Item	3
TOTAL	60.00
Cash	60.00
Tue 12/12/20011 14-38 0039	

(Example for VAT print. Here dept01 programmed with VAT1,rate=7%, dept02 with VAT2, rate 14%, dept03 with VAT3,rate 6%)

Warning amount limit

It is possible to define the limits of the Cash in Drawer for the drawer and for the received amounts in foreign currency. Such limits can be defined in programming mode on the ECR.

To the overcoming of one or more of the limits in issue, the ECR will activate at every receipt closing an acoustic message of signal (beep-beep-beep) accompanied from a message on the display.

Such message of warning will appear, after the overcoming of the limit, to every closing of receipt. The signal in object will not prevent in no way the working on the ECR but it will inform the clerk that it's the time to remove money from the drawer.

To disable the signal it will be necessary, beside to remove the money from the Drawer, to activate a relative procedure of P/O of money to the value that has activated the signal.

So, for example, to disable the signal concerning the overcoming of the amount registered in Drawer, it'll be necessary to activate on P/O procedure by closing the operation with the use of a Total.

Calculator function

It is possible to activate the function "Calculator", that allows to execute, on the ECR's display (without therefore that nothing it is printed on paper), the four operations (addition, subtraction, division and multiplication).

The operations, executed by the "Calculator" modality, don't modify neither type of Totalizer and/or counter in the ECR's memory.

In order to activate this function it will be necessary to put on the ECR's keyboard five keys "+", "-", "*", "/", and "=", for the positioning of these keys you have to see the "Programming operation"

With the keypad above indicated for the "Calculator" function, it will be possible to be operated like on a normal calculator, the input digits and the result of the operations will be visualized either on the operation's display than on customer's display.

In order to remove eventual amounts inserted in wrong way or eventual error conditions, normal [Clear] key present in ECR's keyboard can be used.

Receipt ON/OFF function

It is possible to dis-activate the printing function. Simply by press[Receipt ON/OFF]key. The clerk display will show "Input(receipt off)" or "input".

Table no function(Memory billing)

The ECR has memory billing function, it is very useful for restaurant. It support table no open, recall, hang up, void, and closing. It also support table no sales item view, append, delete and print

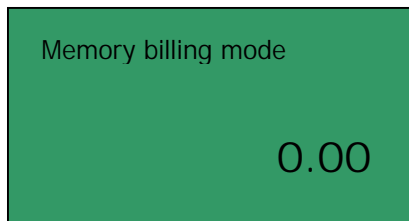
Table no open(recall)

Procedure

1. Input table no.(for example 1)
2. Press [Table no].

Note

- Before using this function, make sure memory billing memory already allocated.
- In memory billing mode, all sale items are recorded to ECR memory. the items will not print except "Rcpt on in TN mode" turned on
- If table no already opened. The clerk display top 2 lines will show registered item. By press[subtotal] key, the clerk display will show subtotal.
- Each table no can record max. 50 items.



(first time open table)

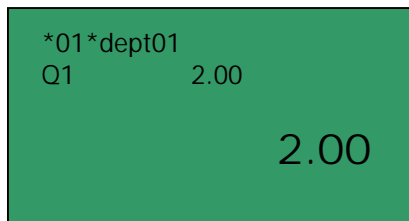


Table no hang up

Procedure

Press [Table no].

Note

- After this, the table no will hang up, and the ECR enter idle mode.
- If table no has not opened, and after the receipt beginning. Press [table no], will hold the receipt. The ECR will automatic assign a table no.

Table no closing (tendering)

Procedure

(Table no open(recall) procedure)
Like normal tendering procedure.

Table no sale item append

Procedure

(Table no open(recall) procedure)
Department sales or PLU sales(append item)
Press [Table no].(hang up)

Note

- Press [transaction void] key will discard all appended items.

Table no sale item print

Procedure

(Table no open(recall) procedure)
input "0"
Press [Table no].(print table no sales items)

Table no sale item view and delete

Procedure

(Table no open(recall) procedure)

Use cursor up and down key to view, if move to the desired item to be delete, just press[Error correct] key

Press [Table no].(table no hang up)

Table no void:

Procedure

(Table no open(recall) procedure)

Press [Transaction void] (the ECR will show "OK?")

Press [Transaction void] (the ECR will void the table no)

(if press [clear], the table no void function is canceled)

Table no view and void

Procedure

Press [Table no]

Use cursor up and cursor down keys to view the opened table no.

(if move to the desired table no to be delete, just press[Transaction void] key twice. This is another table no void procedure)

(if press [Total 1 (Cash)] key, then enter table no mode)

Press [CLEAR] key to abort.

Note

- X reports- Used TN report will print the list of opened table no.

VIP function

There are two kinds of VIP operation: registered member and unregistered member(provisional member) operation. The unregistered member operation mode is temp used for promotion.

Registered member operation procedure:

- 1) input VIP code
- 2) press [VIP] key (not present like default keyboard)
(the 1-2 can be replaced by scanner input in case of using a VIP card)
- 3) press [Enter]

Other method :

- 1) press [VIP] key
- 2) use [UP] or [Down] key,
search and select the VIP no.
- 3) press [Enter] key

Note: press [clear] key to exit VIP no.

Input mode.

DP1000EN	
Clerk :Clerk 05	MachNo:0001
APPLE	18.80
Original price	20.00
Subtotal	18.80

Item	1
TOTAL	18.80
Last earn points	25
Total earn points	26
VIP code: 12345678	
CASH	18.80
Tue 12/12/2006 16-55 0088	

(Example for registered customer operation)

Unregistered member operation procedure:

- 1) press [VIP] key
- 2) press [Enter] key

X Reports(X mode)

All the X report list and description

Daily full report			Daily full terminal report	
PTD full report			Period to date full terminal report	
VAT report	Daily VAT report		VAT daily report	
	PTD VAT report		VAT PTD report	
CID			Cash in drawer report	
PLU report	PLU daily		PLU daily	
	PLU amount top25		Sorting by PLU sales amount	
	PLU QTY top 25		Sorting by PLU sales quantity	
	PLU stock	Append		Append PLU stock
		Stock report by dept.		Report according to department
		All stock report		Report all PLU stock
Safe stock report			Report the PLU which stock<=safe stock	
Dept .report	Daily	Dept daily report	Department daily report	
	PTD	Dept PTD report	Department PTD report	
Clerk report	Daily clerk		Clerk daily sales report	
	PTD clerk		Clerk PTD sales report	
Hourly report	Daily hourly		Hourly sales Daily report	
	PTD hourly		Hourly sales PTD report	
Used TN report			Used table no. report	
RM detail			Return merchandise record list report	
Trans.log report	By date		Transaction log report by date	
	By receipt no.		Transaction log report by receipt	
Program report	Dept programming		Department programming list report	
	PLU programming		PLU programming list report	
	Memory share program		Memory share programming list report	
	PLU chain programming		PLU chain programming list report	
	Keyboard layout		Keyboard layout list report	
	Clerk programming		Clerk programming list report	

An example of a daily full report

Clerk :Clerk 05	X :0001
Daily full report X	
Net sales	10.50
NRGT	727.79
Z counter	0001

Daily dept X	
Dept02	1
	7.20
Dept11	1
	0.30
Dept19	1
	2.00
Dept32	1
	2.00

Daily transaction X	
Gross total	4
	10.50
CASH	2
	10.50
Net sales total	2
	10.50
<Single>	1
%1	-1.00
<Subtotal>	1

Net sales=all total media=cash+check+..tot9
 Net sales=All dept sales+(%,+, -)subtotal
 Net sales=Clerk sales total
 Net sales=hourly sales total

Non resetable grand total
 NRGT=Net sales + last NRGT

Sales counter
 Sales amount

Here Gross total=Net sales.

%1	-1.80
CID	10.50

Daily VAT X	
Non taxable	3
	3.30

VAT2	1
Taxable amount	7.20
VAT Net sales	6.32
14.00%	0.88

Daily Clerk X	
Clerk05	2
	10.50

Tue	12/12/2006 15-33 0005

Cash in drawer
CID=R/A-P/O+CASH-FC total(Foreign currency
sales exchange to local currency)

Z Reports (Z mode)

The list of all Z report

(the below report not only list but also clear sales data)

Daily full report			Daily full terminal report
PTD full report			Period to date full terminal report
VAT Z report	Daily VAT Z report		VAT daily report
	PTD VAT Z report		VAT PTD report
PLU report	PLU daily		PLU daily
Dept report	Daily	Dept daily report	Department daily report
	PTD	Dept PTD report	Department PTD report
Clerk report	Daily clerk		Clerk daily sales report(total and profit)
	PTD clerk		Clerk PTD sales report
	Clerk password reset		List all clerk password and reset
Hourly report	Daily hourly		Hourly sales Daily report
	PTD hourly		Hourly sales PTD report
Amount range	Daily amount range		Amount range sales daily report
	PTD amount range		Amount range sales PTD report
RM detail			Return merchandise detail report

View Data(V mode)

V mode now has two functions. One is setting data and time, another is view PLU sales and stocks.

Date and time settings

The date is YYMMDD or DDMMYY or MMDDYY,

According the "P settings"->"Settings"->"date format".

View PLU sales and stock

To view PLU sales and stock, the ECR will ask "Search by PLU code", then input the PLU code and then press [Enter] key to confirm. The screen will show the PLU name at the title position, show sales amount and quantity (QTY) at lines 1-4. By scrolling the cursor, the PLU stock can be viewed also.

Settings(P mode)

The P mode include PLU programming, department programming, printing setting, communication setting, and keyboard settings etc. To enter the P mode , the operator must be supervisor. Clerks have no right to enter P mode. If error display "unauthorized" in case of entering P mode, that means the current clerk can not enter P mode. The following procedure must be taken: return to R mode, input supervisor password, and then ESC to main menu, and then to P mode.

PLU programming

PLUs	PLUs	Creat	The ECR ask to input : Code Name Price VIP price Linked dept(01-64) TAX * note 1 Single attr. (0: not single item, 1: single item) Scale attr. (0: normal, 1: data from ext. scale) Stock Safe stock Average cost After input above, automatic save the PLU. then ask next PLU, repeat the above sequence. (TAX, single attr, scale attr is skipped)
		Search	List only the specified PLU
		Select	List all PLUs
		Quick edit PLU stock	For quick modify specified PLU stock and cost
		Delete	Delete single PLU Delete PLU by dept.
		PLU settings	Show the status of Used and Remain PLU no.
		PLU chains	Select PLU Chain
Reset all PLU chain	Reset all PLU chain settings(Yes/No)		

Note1: About TAX.

In case of VAT system.

0:none VAT.

1-6: VAT1-VAT6(VAT1-6)

9: same as linked department VAT

In case of TAX system

0:none TAX

1-6: VAT1-VAT6(VAT1-6): TAX1

2: TAX2

3: TAX1 & TAX2

4: TAX3

5: TAX3 & TAX1

6: TAX2 & TAX3

7: TAX1 & TAX2 & TAX3

9: same as linked department VAT.

Department programming

Departments	Select dept1-64 (According to Max. department number)	Price		Preset price	
		Name		Description. Max. 12 characters	
		Attrib...	Single		Yes/No
			Tax		See Note1
			Window(Group)		Department group number. 1-4
kitchen printer		Yes/No			

Department items are controlled by the Max department number. the ECR default Max department number is 64. The Max department number can be set. the settings procedure:

P mode

Note1: About TAX.

In case of VAT system.

0:none VAT.

1-6: VAT1-VAT6(VAT1-6)

In case of TAX system

0: none TAX

1: TAX1

2: TAX2

3: TAX1 & TAX2

4: TAX3

5: TAX3 & TAX1

6: TAX2 & TAX3

7: TAX1 & TAX2 & TAX3

Clerk programming

Clerks	Clerk (clerk programming)	Select clerk 1-9 (according to Max. clerk number)	Name	Clerk name
			Limit1	Limitation1: Return merchandise/Void/ Transaction void/Error correct/ Open drawer/PLU open price
			Limit2	Limitation2: %/(+)/(-) operation/Paid out / X report/Z report enable/ Z daily full report enable/ VIP management enable
	Supervisor password			Input Old password,New password, then Comfirm password
Clerk login check				Yes: required password No: no need password,

Clerk items are controlled by the Max clerk number. The ECR default Max clerk number is 9. we can change this number. the settings procedure:

P mode

Communication programming

Communication	Port settings	RS232-1 (female)	None	No connection
			PC(RS232)	RS232 mode. Normally to PC
			Scale	External scale
		RS232-2 (male)	None	No connection
			Scanner (hand)	Data stream: STX+barcode+ETX
			Scale	External scale
			External pinter	Ext. Printer type
			Scanner (fixed)	Data steam: barcode + CR
			PS/2	PS2 scanner(DEFAULT)
	Device settings	External printer	PS2 Keyboard	PS2 KEYBOARD
			Model	Unspecified/T58GS/TP58GS/POS58/
			Ext.printer type	Servo printer or Kitchen printer
			Feed lines	Feed lines(0-10)lines
		Ticket mode	Select YES/NO	

The ECR has 2 RS232 serial ports. The port can provide 5V to external device. So it can connect RS232 type barcode reader.

Settings programming

Settings	Tax system selection		(see note 1)	Require supervisor password	
	Date format			System date format select: YYMMDD or DDMMYY or MMDDYY	
	Decimal select			System decimal point select: 2 decimal point/No decimal point	
	Rounding	Rounding method	Round off		See note 2
			4/5		See note 2
			Round up		See note 2
			European0/5/10		See note 2
		Round position	The 3 rd decimal		See note 2
			The 2 nd decimal		See note 2
			The 1 st decimal		See note 2
	The units			See note 2	
	Registration control	Compusory subtot key			[Subt] must be pressed before tend
		Compusory tender amt			Tender amount must be input
		Compusory table no.			Table no must be input before register
		Disable T.N.close			Disable Table no hang up.
		Amount entry			Disable decp. Means in REG mode, when input amount if [.]key pressed, error happen.
		Training mode			Enable/Disable
	Machine & rcpt .no.	Machine no.			Machine no. setting
		Receipt no.			Receipt no. setting
	Dept. Max no.	Max dept no.			Max department number 1-64
		Max clerk no.			Max clerk number 1-9
	In store code	2XXXXXXXXXX barcode			In store code settings: 0:normal PLU 1:2YXXXXCPPP (code+price) 2:2YXXXXCWWWC(code+weight) 3:2YXXXXCWW.WWWC(code+weight) 4:VIP code
	Amount limit	ST amount limit			Subtotal amount limit
		CID amount limit			Cash in drawer(0: no limit)
		FC amount limit			Foreign currency(0:no limit)
	Key tone				Key tone active or dis-active
	LCD light				LCD light 5s/10s/20s/Always on
	Transaction log				Enable/Disable
	ECR data				
		Clear sales data			Require supervisor password
		Clear PLU memory			Require supervisor password
	Clear memory billing			Require supervisor password	
	Clear trans.log			Require supervisor password	
Restore factory set				Require supervisor password	

Note 1: TAX/VAT system selection.

The ECR support TAX or VAT system. Please select the suitable system to meet your business.
VAT system support 6 kinds of VAT.

TAX system supports 3 kinds of TAX. Taxshift1,2,3, tax exempt. Refer to appendix1 tax system

Note 2: Rounding

For example the amount is 12.34.

If rounding position is the 3rd decimal, no rounding happen

If rounding position is the 2nd decimal, the rounding position is on the digit "4"

If rounding position is the 1st decimal, the rounding position is on the digit "3"

If rounding position is the units, the rounding position is on the digit "2"

If rounding method is round off, the rounding will clear the right part.

If rounding method is 4/5, and the digit on the rounding position ≥ 5 , the left part +1 and the right part clear to zero

If rounding method is 4/5, and the digit on the rounding position < 5 , the right part clear to zero

If rounding method is round up and the digit on the rounding position $< > 0$, the left part +1 and the right part clear to zero

If rounding method is round up and the digit on the rounding position =0, the right part clear to zero

If European rounding and the digit on the rounding position ≥ 8 , then the left part +1 and the right part clear to zero

If European rounding and the digit on the rounding position ≥ 3 and ≤ 7 , then rounding position digit change to "5", and the right part(not include the rounding position) part clear to zero.

If European rounding and the digit on the rounding position ≥ 0 and ≤ 2 , then the right part(include the rounding position) part clear to zero.

Example:

Rounding position="the 1st decimal", rounding method="4/5", the result is 12.00

Rounding position="the 2nd decimal", rounding method="Round up", the result is 12.40

Rounding position="the units", rounding method="European", the result is 15.00

Printing programming

Printing	Receipt messages	Head lines(0-5)		Message lines printed on receipt head		
		Tail lines(0-3)		Message lines printed on receipt bottom		
		Select line	Select 1-8 Message lines	Select Message 1		Select Message 1
				Description:Edit messages		Description:Edit messages
				Double high:Message double high or normal		Double high:Message double high or normal
	Auto center:Message auto center		Auto center:Message auto center			
	Profiles	Ticket mode		YES: Ticket mode selection		
		Ticket by group		Print ticket by group		
		Ticket use double H		YES: the ticket character double height		
		Double height rcpt.		YES:the receipt character double height		
		Save paper mode		YES:some receipt head mess not print		
		Zero skip for report		YES: zero item will not print on report		
		NRGT print		NRGT print or not control		
		QTY printed on rcpt		Qty print/not print on receipt(Rmode)		
		Detail for X/Z rpt.		Detail or short report for X/Z full terminal		
		Detail Trans.Void		Transaction void print detail or only amount		
		PLU code print		PLU code print /not print on receipt		
		Auto 2 nd receipt		YES: auto print double receipt		
		Auto VAT data print		YES:auto print VAT amount on receipt		
	Logo selection	Hallo logo sel(0-10)		Select hallos.0-10		
		Hallo logo print		Hallo logo print or not		
		Store logo print		Store logo print or not		
		Hallo logo on head		Hallo logo print on receipt head or bottom		
		Store logo on head		Store logo print on receipt head or bottom		
	Printing quality			High speed/normal/Highquality/Very high quality		
	User text			The message show on the idle screen		

Function key programming

Function key	Keyboard config	FF key		Free function key define *note2
		FF char		Redefine free function char
		PLU hotkey		PLU hotkey define
		Dept key		Department key define
		KM key		Cooking message hot key define
		PLU chain		PLU chain hot key define
		Restore		Restore default (factory)
	% key	%1	Name	Description for %1
			Rate	Percentage rate
			Positive attr.	+/-
			Item after enable	Item % enable or not
			ST after enable	Subtotal % enable or not
		%2		Same as %1
	%3		Same as %1	
	VAT rate			VAT1-VAT6 rate
	TAX rate	Tax1 shift	Rounding	Down/OFF/UP
			Rate	00.000-99.999%
			Threshold amount	Non taxable amount threshold
			Name	
		Tax2 shift		
	Tax3 shift			
	Foreign currency	FC1	Name	Description for FC1
			Rate(with decimal)	Rate
			Rounding	Note1
			FC decimal point	2 decimal or no decimal
			Calculate method	1 Local=1 FC/rate
		FC2		
	...			
	FC9			
	Preset cash			Preset cash 1-4
	Cooking messages	KM1		Kitchen messages 1
		...		
		KM9		Kitchen messages 9
	Window (group)			
	Change tender name	Tot1		Tot1 media
		...		
		Tot9		Tot9 media
	Change function name			Add charge(+)/Cut down price(-)

Note1: Note1: FC rounding

In case of "5/4 on 1/3 decimal":

Check the FC internal calculation result with the last digit. if the digit ≥ 5 , the FC result will round up. Otherwise the result will be round off. In case of FC without decimal, the internal FC calculation result with 1 digit, check the digit. In case of FC with 2 decimal, the internal FC calculation result with 3 decimal, check the 3rd digit.

For example

In case of FC without decimal:

if internal FC calculate result=2036.5,then FC=2037

if internal FC calculate result=2036.2,then FC=2036

if internal FC calculate result=2036.7,then FC=2037

if internal FC calculate result=20.365,then FC=20.37

if internal FC calculate result=20.362,then FC=20.36

if internal FC calculate result=20.367,then FC=20.37

In case of "up on 1/3 decimal":

Check the FC internal calculation result with the last digit. if the digit =0, the FC result will round off, otherwise round up

In case of FC without decimal:

if internal FC calculate result=2036.2,then FC=2037

if internal FC calculate result=20.365,then FC=20.37

In case of "up on units/2 decimal":

Check the internal 2nd last digit.

In case of "up on tens/1 decimal"

Check the internal 3rd last digit.

In case of "up on hundreds/units"

Check the internal 4th last digit.

Note2: Free function key define.

The free function key list as below:

KEY	KEY	KEY
T1code(CASH)	Void	Cursor down
T2code(CREDIT)	Return merchandise	Enter
T3code(CHARGE)	Error correct	Table no.
T4code	Transaction void	VIP no.
T5code	Subtotal	Cooking messages
T6code	VAT print	Escape
T7code	Help	Preset cash1
T8code	Clear	Preset cash2
T9code	Feed	Preset cash3
R/A code	"00"	Preset cash4
P/O code	". "	Tax shift1
%1	PLU	Tax shift2
%2	Clerk	Tax shift3
%3	Amount	Tax exempt
(-)	Shift	PLUD
(+)	Receipt ON/OFF	Table no. change
Foreign currency1	X/time	Person
Foreign currency2	#/NS	Table code
Foreign currency3	PLU chain	Room no.
Foreign currency4	Calculator +	
Foreign currency5	Calculator -	
Foreign currency6	Calculator x	
Foreign currency7	Calculator /	
Foreign currency8	Calculator =	
Foreign currency9	Cursor UP	

VIP management programming

VIP management	New	Code	Code. 5-13 digits
		Name	VIP name
		Birthday	Date
		Earn points	Coupon by earn points
		M/F	Male or Female
		Tel	Contact telephone no. etc.
	Select	Select the VIP	Show the VIP code,Name,Birthday,Earn points,M/F,Tel.
	Search by code		Input VIP code
	Clear all data		Reset all VIP data
	Earn points setting		1points/ 1 dollar or 1 point/10 dollar
VIP view	By code		View by input VIP code
	By Tel		View by input VIP'S tel.
	By birthday		View by input VIP'S birthday
	One by one		View by list one by one
VIP report	By points		List VIP according to points
	By birthday		List VIP according month of birthday
	Print all		List all VIP.

The ECR support total 2048 customers.

If VIP code is EAN13 code. for example 29XXXXXXXXXXC, and in store code 29XXXXXXXXXXC is set to "4"(customer code), then VIP code can be input by scanner.

Appendix1 TAX system

In tax system, there are max. 3 kind of tax: tax1,tax2 and tax3. each department can be linked with each of above tax, or combination of above tax. For example, department1 can be programmed with NO TAX, TAX1, TAX2,TAX3,TAX1+TAX2,TAX2+TAX3,TAX1+TAX3,TAX1+TAX2+TAX3. Tax rate can be set in P mode->function key->tax rate.

For example, tax1=10%,tax2=20%,tax3=30%, department1 linked with tax1 +tax2+tax3.

The following is department1 entry with 100.00, and close with cash(TOT1),we can find that 3 tax amount is added in Total. Customer must pay not only the basic price but also additional tax charge.

Appendix2 Scale barcode

Scale barcode also named as in-store code, it is EAN13 code with leading digits"2",in-store code has barcode include price or weight information. We often encounter scale barcode which is with barcode include price information, such scale barcode format like this:

2YXXXXCPPPPC.

2Y : sort,

X...XC : with the leading 2Y consist of barcode,

PPPPP : price,

C : checksum,

Here is a standard scale barcode: read apple 232868, price 2.31, and the whole code:2328684002317.

Y=3,

XXXX=2868

PPPP=00231

1) To make ECR can read apple barcode, first set in-store code:

P mode->settings->in-store code->23xxxxxc->1->[cash] (1= 2YXXXXCPPPPC)

2) Creating a PLU:

P mode->PLU->create (Create a code 232368, no need price, because it read from barcode)

The following is ECR read barcode procedure:

When ECR get 2328684002317 barcode, first get the leading digit "2", so check in-store setting, and find that the leading two characters "23" is the type of barcode-price, so check the left part "232868" PLU setting, if PLU is not programmed, ECR will show "E106, no PLU", if PLU is programmed, then get the price(right part of the barcode).