CL5000 Series

CL-Works

V 1.30 Users Manual

Rev. 2007 09 26

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1. Software Installation

1.1. Using this Manual

This manual explains how to install and run the *CL-Works* software program. This software program works with all CL5000 series scales using either an RS-232C or Ethernet protocol.

1.2. Installation

Insert the *CL-Works* CD, the installation program should automatically start, if it does not, locate the Setup file on the CD and double-click on it.

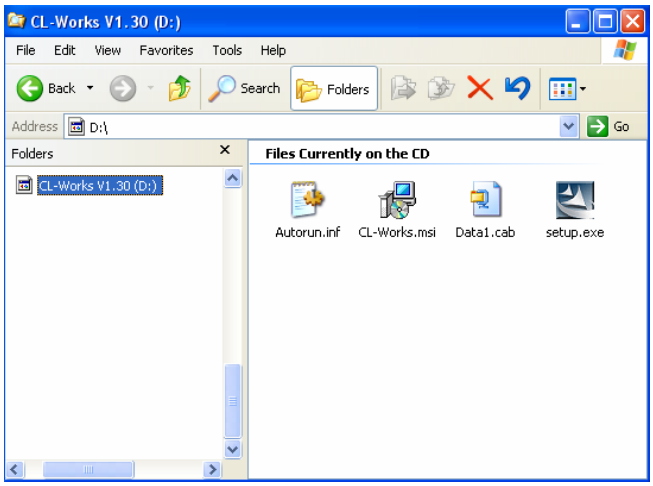


Figure 1.1 Contents of CD

1.2.1. Preparing to Install

After the installation program has started it will prepare your PC by copying all of the files used to install the *CL-Works* program.

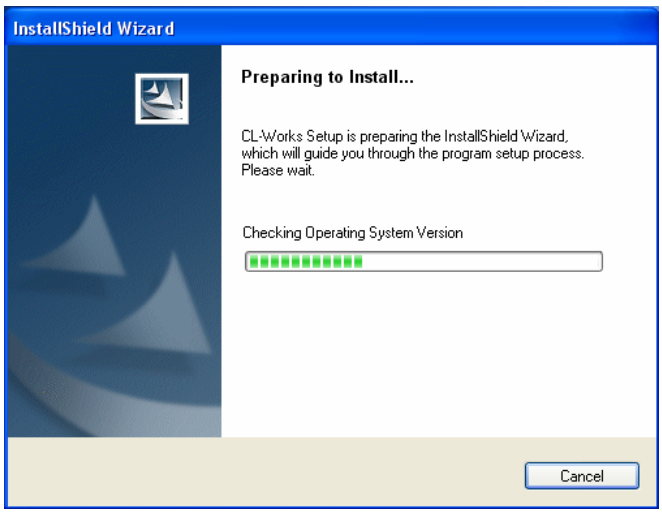
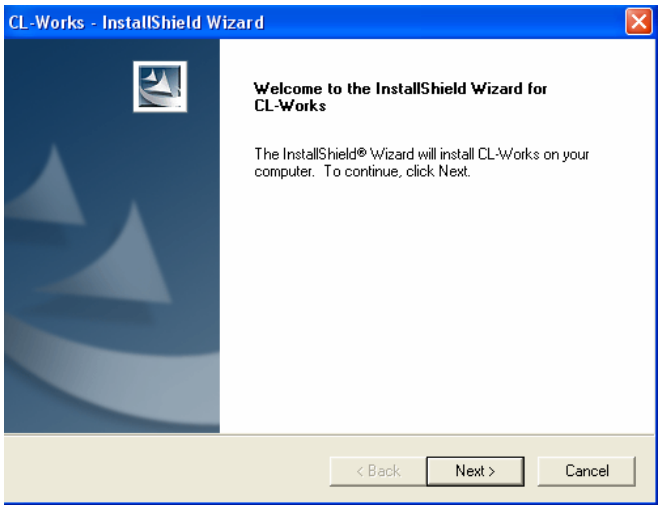


Figure 1.2 Preparing to Install

1.2.2. Install Shield Wizard

After all of the necessary installation files have been copied you should see the Install Shield Wizard screen. Click the Next button to continue with the



installation.

Figure 1.3 Install Shield Wizard

Choose Destination Location

The Choose Destination Location screen allows you to select the location where all of the *CL-Works* program files will be installed. (*Note: It is recommended to use the default folder location to avoid any problems in the future.)* Click the Browse button to select a different destination folder or click the Next button to continue.

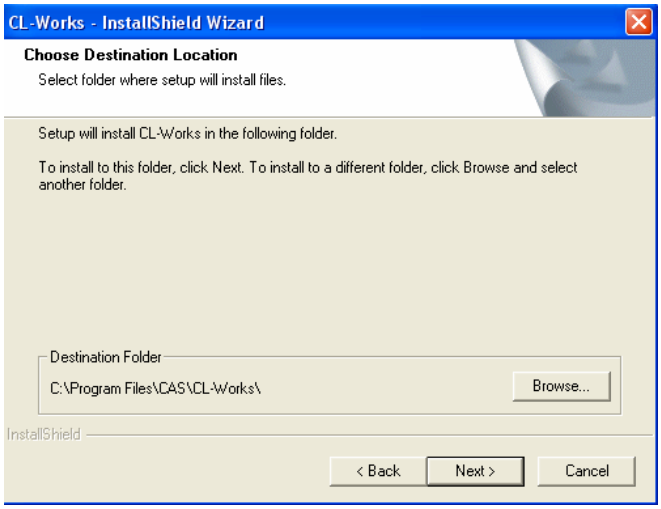


Figure 1.4 Choose Destination Folder

Select Setup Type

The Select Setup Type screen allows you to select the correct initial settings based on the country where you are located or the language you want to use. Select the type of Setup that you require and click Next.

Figure 1.5 Select Setup Type

Copying Program Files

After you choose the Setup type you will see the Start Copying Files screen. This screen will display the information that you have selected or chosen in the previous steps. If any of the information is incorrect or you want to change it, click on the Back button and change it. When the information is correct, click the Next button.

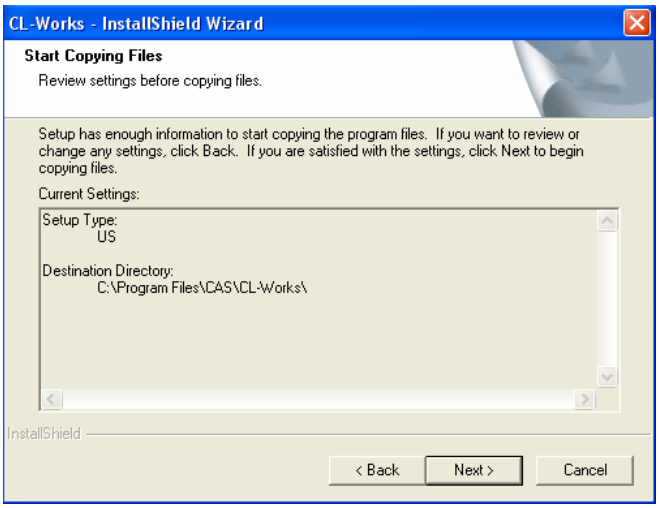


Figure 1.6 Start Copying Files

Setup Status

You should now see the Setup Status screen. The Install Shield Wizard is copying the main program files, modules and other basic components to your hard drive. When it is finished it will register the *CL-Works* program with Windows and create a shortcut on your desktop. It will also add the *CL-Works* program to the list of installed programs.

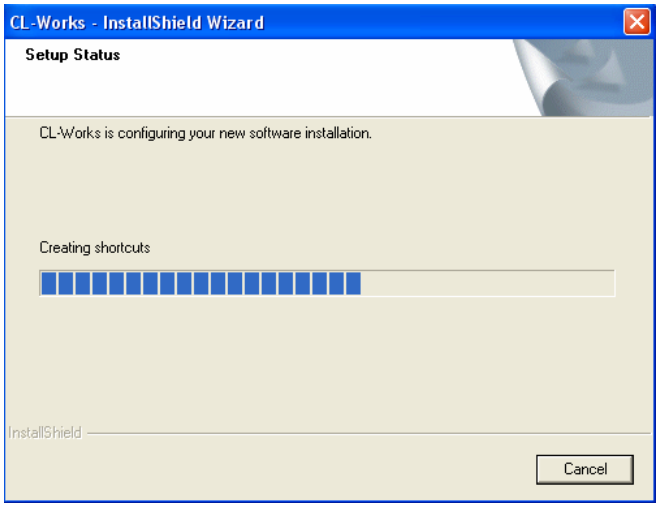


Figure 1.7 Setup Status

1.2.3. Finishing the Installation

After the wizard has finished installing files you should see the Installation Complete screen. Click the Finish button to complete the installation. To start the *CL-Works* program you can use the shortcut icon that was created on your desktop. Note: Some versions of Windows require that you reboot your PC.

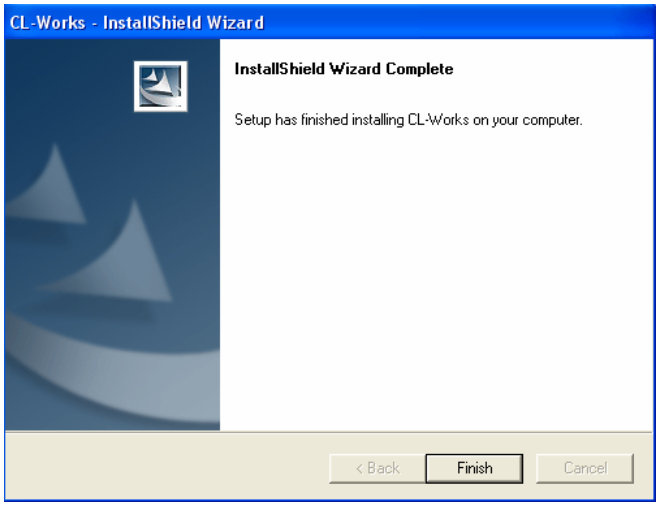


Figure 1.8 InstallShield Wizard Complete

2. Before You Start

Using the *CL-Works* software program to manage your scales will be significantly easier if you take the time to learn a little about it before you start to use it. For example, understanding all of the different screens and menus and their functions will enable you to program your scales more easily and take full advantage of the *CL-Works* software's capabilities. Please take a few moments to familiarize yourself with the information in this manual before proceeding.

2.1. Icons

There are several different icons (shortcut buttons) used in the *CL-Works* software. Each of them has a specific function and purpose based on the programming operation you are currently using. Below is an explanation of these icons.

OPEN

Allows user to open existing databases

REPORT

Allows access to the Report function for manipulating Sales Data.

SAVE

Used to Save database information.

LABEL EDITOR

Opens CL5000 Label Editor program. Used to manage custom label formats.

PRINT

Opens Print Menu. Allows printing of items such as keyboard layouts.

SPEED KEYS

Used to create custom keyboard overlays that can be downloaded to the scale and printed.

PLU EDITOR

Used to access the PLU Editor program. Allows you to manage the PLU database information.

UPLOAD

Upload button is used to upload information into the database from the scale.

DISCOUNT

Allows you to manage PLU discount information by creating sale pricing and sale periods.

DOWNLOAD

Download button is used to download information from the PC to the scale.

TABLE 1

Provides access to programming menus for Departments, Sales Groups, Sales Messages, Country of Origin, Barcodes, etc.

CONFIG

Configuration button is used to configure the software to match the CL5000.

TABLE 2

Provides access to programming menus for Ingredients, Nutritional Information and other Traceability items.

TABLE 3

Provides access to programming menus for Store Data, Scrolling Messages and Security.

NET SERVER

Allows changes made at one scale to be sent to another automatically.

2.2. Setting the Environment

For proper operation of the *CL-Works* program you need to ensure that it is properly configured. To accomplish this, follow the procedures outlined in the following sections. Failure to follow these procedures may result in improper operation of the software and possible scale communication issues. This chapter shows the basic settings and configuration data for proper use and operation of the software. You can find specific details on each of the configuration tabs in Section 10.4.

2.3. Setting Communication

The Setting Communication screen is used to select and setup the communication method between the CL5000 and the PC. You can choose between RS-232C (Serial) and TCP/IP (Ethernet) protocols. More detailed information on these settings can be found in Section 10.5.4

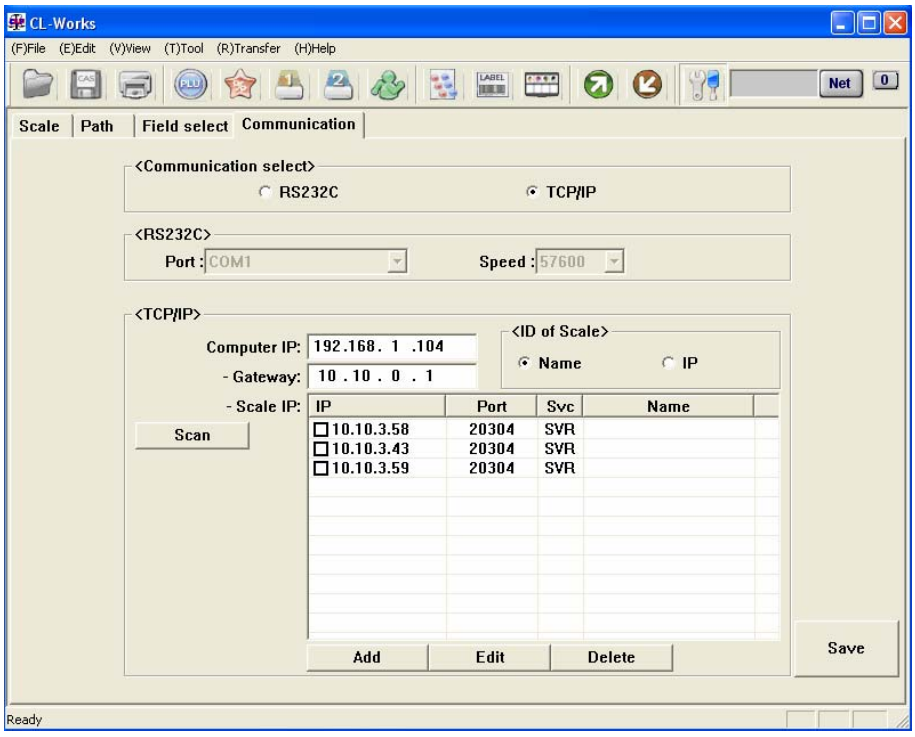


Figure 2.1 Communications Configuration

2.4. Setting File Path

The Path tab allows you to designate the location where basic program data will be saved or stored. More detailed information on this setting can be found in Section 10.5.2

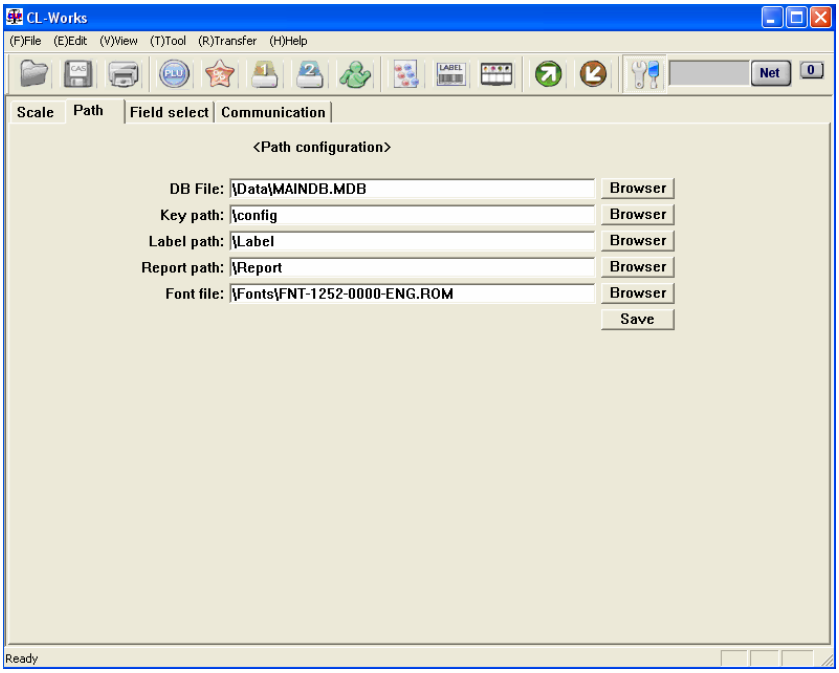


Figure 2.2 Setting Path

2.5. PLU Field Selection

The Field Select tab allows you to choose which programming fields will display in the PLU Editor. More information on this setting can be located in Section 10.5.3

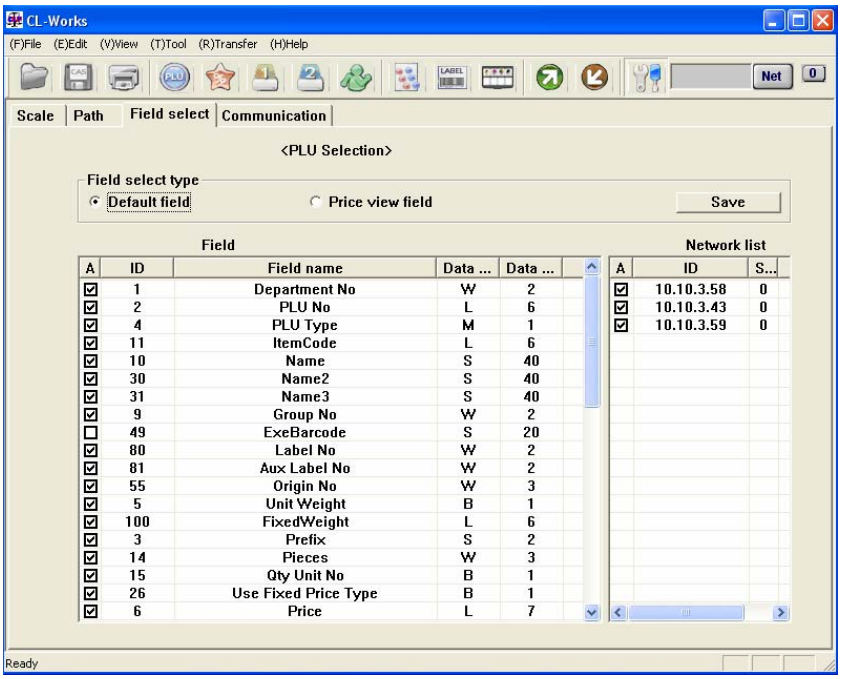


Figure 2.3 Field Selection

2.6. Scale Configuration

The Scale Configuration tab allows you to set parameters in the software to match information in the CL5000. Note: This does not change information in the scale, only the PC. More information can be located in Section 10.5.1

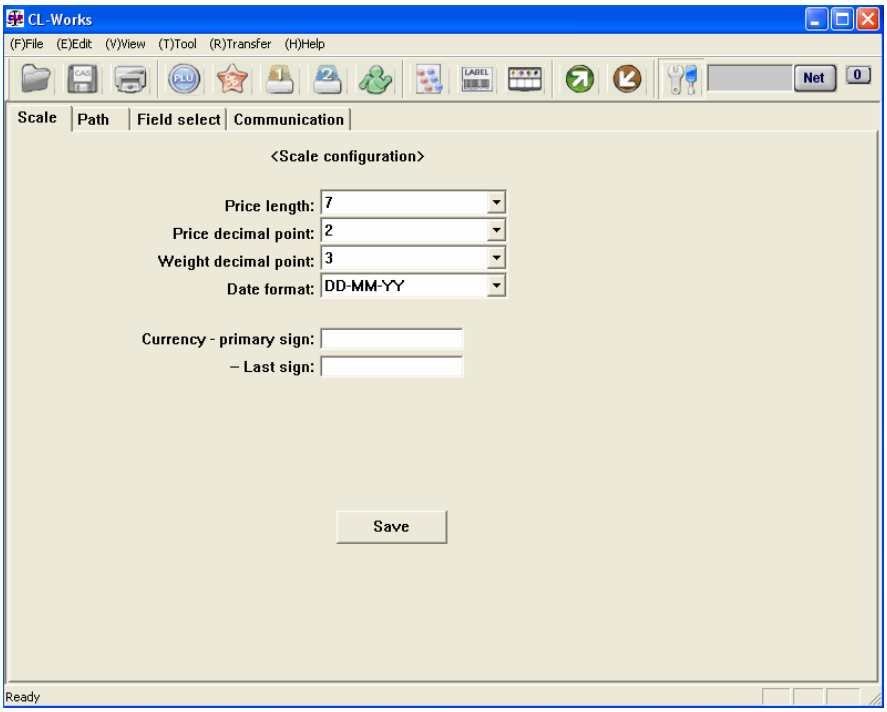


Figure 2.4 Scale Configuration

3. PLU Editor

The PLU Editor is used to view, edit and program PLU information into the database. PLU information can be entered using several different methods. PLU's can be manually entered using the PC keyboard, uploaded from an existing scale or even imported from another program such as Microsoft Excel.

3.1. PLU Editor Components

There are several individual areas of the PLU Editor screen. These areas are explained in the sections that follow.

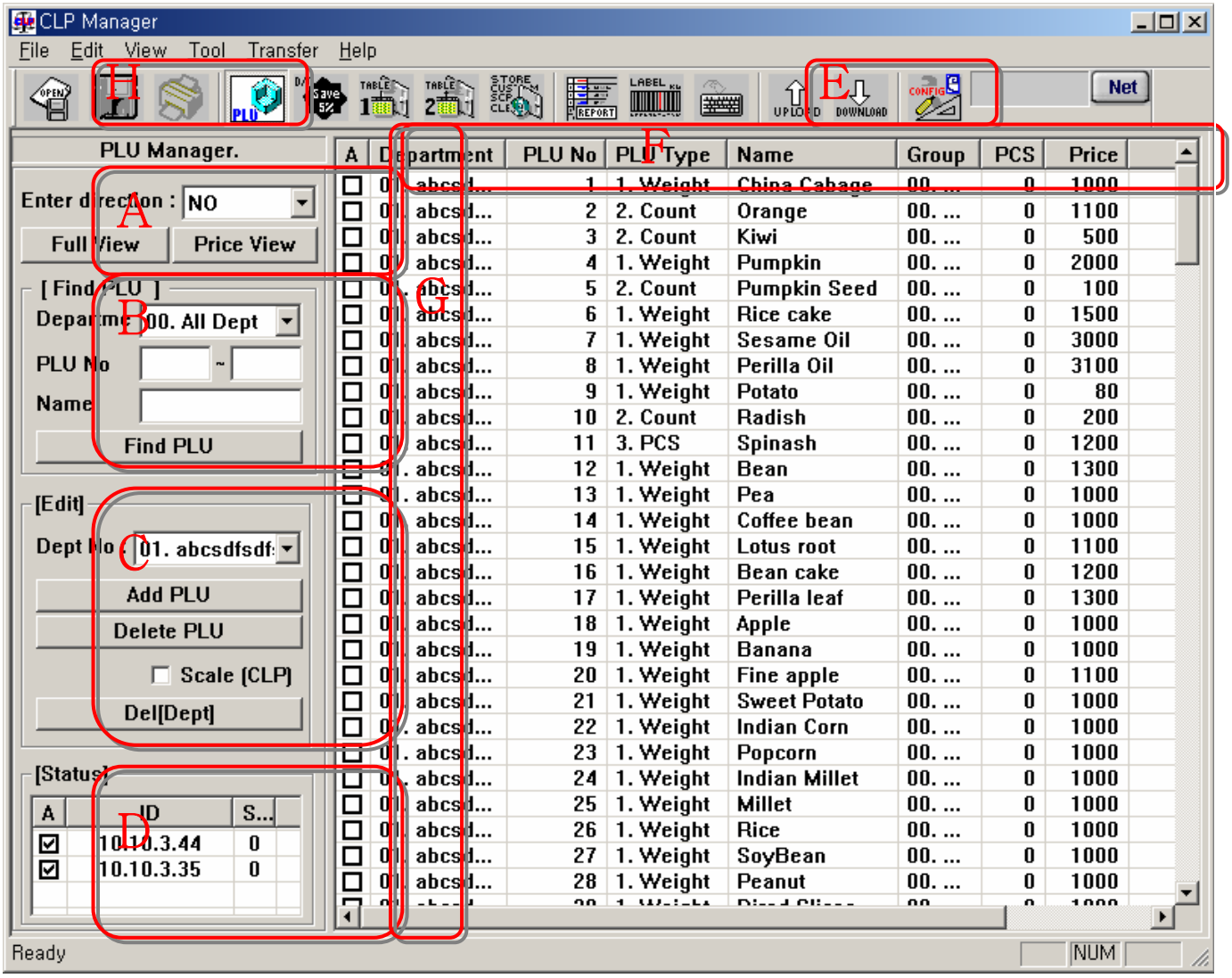


Figure 3-1 PLU editor

3.1.1. Field explaination

A part of <Image 3-1. PLU editor>

Enter direction - It decides next direction also you can set grid setting condition.

A. Full view – Shows every default field on PLU screen

NOTE: More details look for the <11.2.3.Field select (PLU field configuration) >

B. Price view – Showing Price view field on PLU screen

NOTE: More details look for the < 11.2.3.Field select (PLU Field configuration) >

B part of <Figure 3-1. PLU editor>

C. Department – Choose PLU department which you want to reach

D. PLU No – Input PLU No. area which you want to search

E. Name – Input PLU name which you want to search

F. Find PLU – Press to start find PLU

G. More details look for the <3.3.3.Correct & add in PLU editor>.

C part of <Figure 3-1. PLU editor>)

H. Dept No – Choose department No. which you want to work on

I. Add PLU – Add PLU on defaul list

J. Delete PLU – Delete selected PLU

K. Scale(CL5000) – Delete PLU in scale (CL5000)

L. Del (Dept.) –Delete choosen department on Dept No

More details look for the <5.Data table I (PLU reference I)>

D : (D part of <Figure 3-1. PLU editor>

M. Status –It shows IP list and status using TCP/IP network

E : (E part of <Field 3-1 PLU editor>

N. Upload – Press when you want to get data from scale

O. Download – Press when you want to download data to scale

More details look for the <3.3.9.PLU Download>

F : F part of <Image 3-1 PLU editor>

P. Horizontal axis - Quick PLU list. Click name to line up

G : (G part of <Image 3-1 PLU editor>

Q. Horizontal axis- PLU list)

R. A-You can choose PLU you want

S. Press column A to select all

H : (H part of <Image 3-1 PLU editor>

T. First icon- To open saved data

U. Second icon- To save reformed data

V. Third icon- To print

3.2. Programing PLU editor

Explain every process needed in PLU editing

3.2.1. Opening new work in PLU editor

Run CI-works program

Select file menu

Click "New" and it's ready for new work

3.2.2. Correct & add in PLU editor

Explains add & correct PLU

Additional process

A. Select "Dept No." on <Image 3-1. PLU editor> part C

[Reference: Dept No need to add in <5.Data table I (PLU assist information I)> Press add PLU button on <Image 3-1. PLU editor> part C

New data appears at the bottom of grid screen

B. Input informations. More details look for <2. Correct> below

[Reference: PLU is up to 4000 unit]

Correction

C. Choose the item you want to correct and press Enter or double-click it

D. It turns to editing input condition or list selected condition

Reference: there is two type of editing condition. Write down directly or choose from the list. Items like Discount, Table I, Table II need to make up the data list first.

3.2.3. Save & open PLU data

Learn how to save, open, import and export PLU files.

Saving data

A. Click save icon on <Image 3-1 PLU editor> part H
   [Reference: If display shows notice message. Click "OK" and fill up the rest of information]
B. Data is saved
   Reference: Saving refer to last open and saved file.

Saving in new name

C. Select "File" in <Image 3-1.PLU editor>
D. Choose Save as manu
E. Write new file name or select file to save

Opening data

F. Select "File" in <Image 3-1.PLU editor>
G. Choose Open menu
H. Write or select file to open
I. Press "OK" button

Exporting data

J. Select "File" in <Image 3-1.PLU editor>
K. Choose Export manu
L. Wirte or select file to export when dialogue appears
   [Reference: It only saves same type of files]
M. Saving file is complete

Import data

N. Select "File" in <Image 3-1.PLU editor>
O. Select Import
P. Write or select file to import
Q. Select the sheet to import when dialogue appears
   [Reference: It brings only same type of sheet using in the program]
R. Importing data
   [Reference: present data will disappear and imported data will appear in the screen]

3.2.4. Dealing with Enter in PLU editor

Explains how to manage Enter after input informations on editor dialog

Select NO in Enter Direction at <PLU editor Image 3-1> part A. It just completes the input.

Select Right in Enter Direction at <PLU editor Image 3-1> part A. It makes input complete and move to right column

Select Down in Enter Direction at <PLU editor Image 3-1> part A. It move to next line

3.2.5. Searching data

Explains how to find the data user want by factors

Explain control

A. (Department at <PLU editor image 3-1> part B: Choose searching conditoin of Department)

[Reference: It must registered on Table I to see on the list]

B. PLU No at <PLU editor image 3-1> part B: Input searching conditoin of PLU No area

C. PLU Name at <PLU editor image 3-1> part B: Input PLU name whicj you want to find

Instruction

D. Check all the conditions above 1(Expain controll). Clikck find PLU button at <PLU editor image 3-1> part B. It show the PLU which satisfy the request.

[Reference: To see all PLU. Choose 00.All Dept at Department and click Finf PLU button.]

3.2.6. Viewing PLU type

Explain how to see PLU types. It can show up all the data grid type or some parts only

1. To view all data

   Click Full View at <PLU editor image 3-1> part A

2. To view some parts

   Click Price view at <PLU editor image 3-1> part A

[Reference: It need to set up price view first. More details look for the <9.2.3.Field Select (PLU Field configuration>)

3.2.7. Upload PLU

Explains to bring data from the scale

First, check communication cable is connected

[Reference: refer to <11.2.4.Communication (communication configuration)]

Check communication setting is in oerder

[Reference: refer to <11.2.4.Communication (communication configuration)>]

Start program if above conditions are done

Click upload icon at <PLU editor image 3-1> part E

[Reference: You can press Cancel button to cacel it]

You can see the data from the scale on the screen

3.2.8. Downloading PLU

Explain how to download data to scale)

First, check communication cable is connected

[Reference: refer to <11.2.4.Communication (communication configuration)>]

Check communication setting is in oerder

[Reference: refer to <11.2.4.Communication (communication configuration)>]

Start program if above conditions are done

Open ro edit files which you want to download

Select PLU to download at <PLU editor image 3-1> part G

Click Download icon at <PLU editor image 3-1> part E

[Reference: You can press Cancel button to cacel it]

Click OK button to finish

3.2.9. Deleteing PLU

Explaining how to delete PLU process

Delete one by one

A. Start program

B. Open or edit data

C. Check the PLU you want to delete at the check box at <PLU editor image 3-1> part G

D. Click Delete PLU button at <PLU editor image 3-1> part C

E. Deleting complete

[Reference: It's easy to find PLU using PLU search]

Delete scale PLU data only

F. Choose scale (LP5000) check box at <PLU editor image 3-1> part C

G. Click Delete PLU button box at <PLU editor image 3-1> part C

H. Deleting scale data

[Reference: It deletes only scale data]

Deleteing Department

I. Select Department you want to delete at <PLU editor image 3-1> part C in Dept No

J. Click Del button at <PLU editor image 3-1> part C

K. Every PLU you choosed in department deletes

3.3. PLU editor reference

Explains data input area using PLU editor & references like PLU type list

Table 3-1 PLU type table

No.	Type Name	Input area	Registered location
1	Department No.	99	Table I
2	PLU No.	99999	PLU Editor
3	PLU Type	4	PLU Editor
4	Name	40	PLU Editor
5	Name2	40	PLU Editor
6	Name3	40	PLU Editor
7	Group No.	99	Table I
8	Label No.	99	PLU Editor
9	Aux. Label No.	99	PLU Editor
10	Origin No.	500	Table I
11	Unit Weight	5	-
12	FixedWeight	99999	PLU Editor
13	Prefix	2	PLU Editor
14	ItemCode	999999	PLU Editor
15	Pieces	999	PLU Editor
16	Qty Unit No.	8	Table I
18	Use Fixed Price Type	1	PLU Editor
19	Price	999999	PLU Editor
21	SpecialPrice	999999	PLU Editor
22	TAX No.	9	Table I
23	Tare	99999	PLU Editor
24	Tare No.	99	Table I
25	%Tare	99999	PLU Editor
26	Tare % limit	99999	PLU Editor
27	Barcode No.	99	Table I
28	ProducedDate	999	PLU Editor
29	Packed Date	999	PLU Editor
30	Packed Time	99	PLU Editor
31	Sell By Date	9999	PLU Editor
32	Sell By Time	99	PLU Editor
33	CookByDate	9999	PLU Editor
34	Ingredient No.	999	Table II

35	Traceability No.	99	Table II
36	Bonus	999	PLU Editor
37	NutriFact No.	200	Table II
38	LabelMsg No.	99	Table II
39	Reference Dept	99	Table I
40	Reference PLU	999999	PLU Editor
41	Coupled Dept	99	Table I
42	Coupled PLU	999999	PLU Editor
43	# of LinkPLU	2	PLU Editor
44	Link Dept1	99	Table I
45	Link PLU1	999999	PLU Editor
46	Link Dept2	99	Table I

4. Discount

4.1. Discount information outline

This chapter explains setting discount information on products. This program is able to add, delete or edit discount information on products use by scale

Inputed information is goinig to save on data base & able to upload or download to scale

4.2. Discount information formation

Select Discount on main toolbar to use Discount information setting. When you start Discount you can see <Edit discount information, image 4-2>

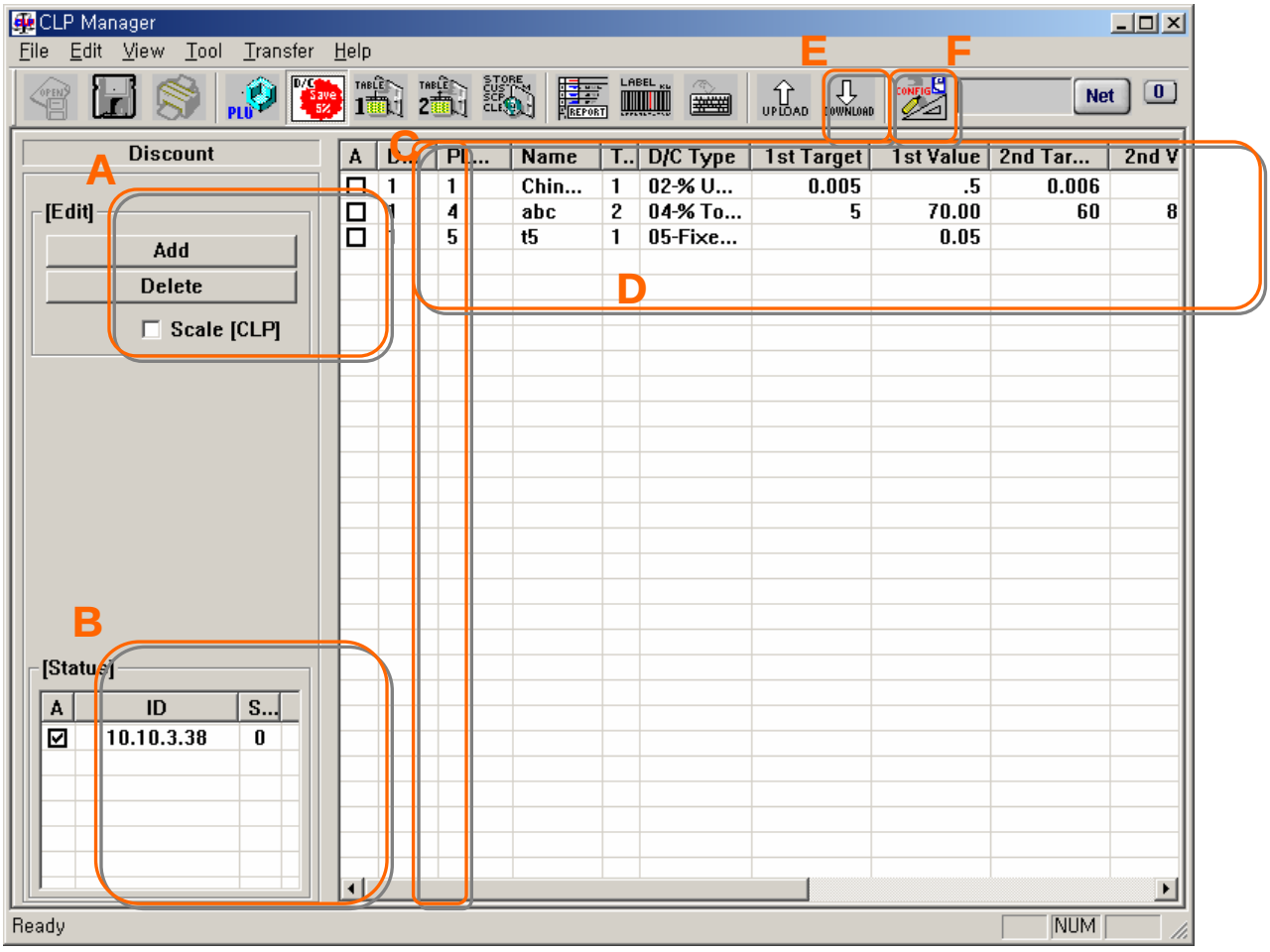
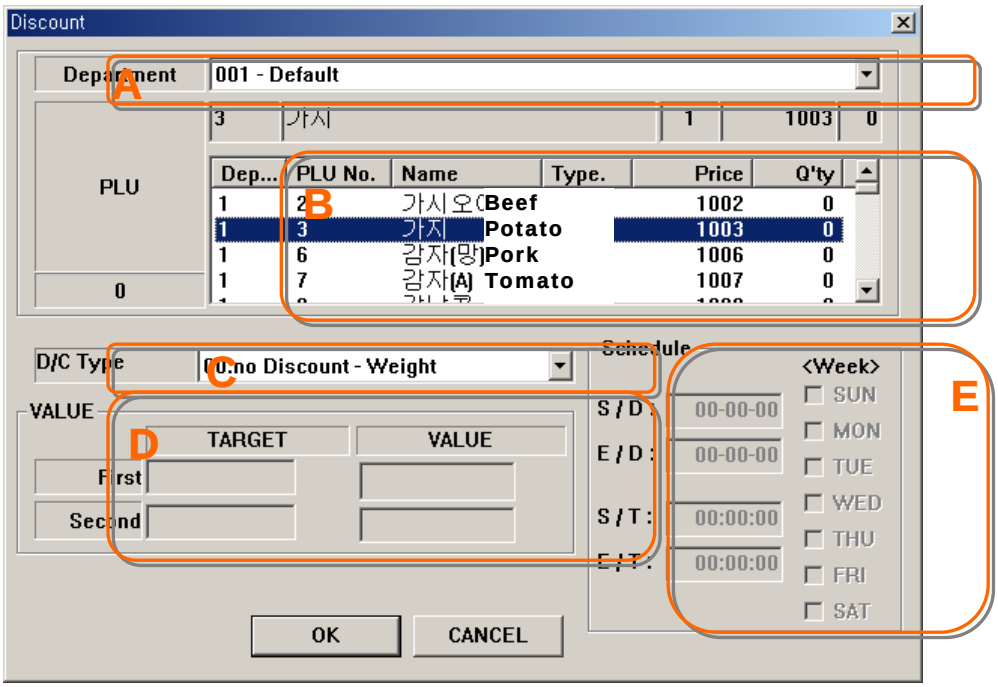


Figure 4-1 Discount information

<Edit discount information, Image 4-2> shows discount information list. You can add or delete data by press Add button or Del button.

<Edit discount information, Image 4-2>is data editing for each dataThis specific data setting can use by press Add button or dluble-click on the list



4.2.1. Edit discount information components

Basic screen

A. A: It's basic function for discount. Add, delete or edit discount information

B. B : Shows registered IP list and status when using TCP/IP network

C. C : It can select discount information contents you want. Click column A to select all contents

D. D : It shows present data saved on PC

E. E : Upload –Bring discount data to PC from the scale. It supports easy to edit data from

the scale using PC

F. F : Download –Download the editing data to connected scale

Edit discout information

G. A : It is to choose the department and show following PLU in it

H. B : PLU information can use in discount. It shows data registered in PLU editor. PLUs alreaady registered in dicount information will not show up.

I. C : It is different in discount type according to PLU. Discount by % using weighting or specific price in pieces

J. D : It shows detail discount information about when and how. Some PLU able to rediscount

K. E : This part is to set discount period like date, time and week

4.3. Instruction

Discount information about selling list is saved in local PC's data base. You can easily access the entire list by using data base

4.3.1. Starting discount

Starting by click Discount on toolbar or Tool-Discount at menu

You can click Add button to input data or bring from connected scale

4.3.2. Setting discount

To input, press Add button <Discout information, Image 4-1> at part A. <Edit discount information, Image 4-2> will on the screen. Put all the data in field and click OK button to complete

Edit

Double-click list on <Discout information, Image 4-1> at part D. <Edit discount information, Image 4-2> will appear on the screen. Put all the data in field and click OK button to complete

Delete

A. Choose the list you want to delete in <Discout information, Image 4-1> part C. press Del button to delete

B. You can delete some lists <Discout information, Image 4-1> part C, in sametime

C. Beware. It can not recover once its deleted

4.3.3. Saving discount

Saving by clicking diskette icon on toolbar or Save in File

NOTE: Save regularly to prevent losing data by blackout or PC problems

4.3.4. Upload data

Explains uploading data from scale

☞ PC and scale need to connect in first place

Upload instruction

A. Check network conditions (set communication in Config menu)

B. Selete list you want to upload in <Discout information, Image 4-1> part D

C. Click on arrow icon (part F) to start

D. Dialog box will appear and loading bar show uploading status.

NOTE: Only one scale must seleted when you using TCP/IP mode

4.3.5. Download data

Explains download present screen data to the scale.

How to download

A. Check network conditions

B. Select contents you want to download on <Discount information, Image 4-1> at part A

C. Click on arrow(download)icon (part G) to start download

NOTE: You must select at least one to stat downloading

4.4. Discount reference table

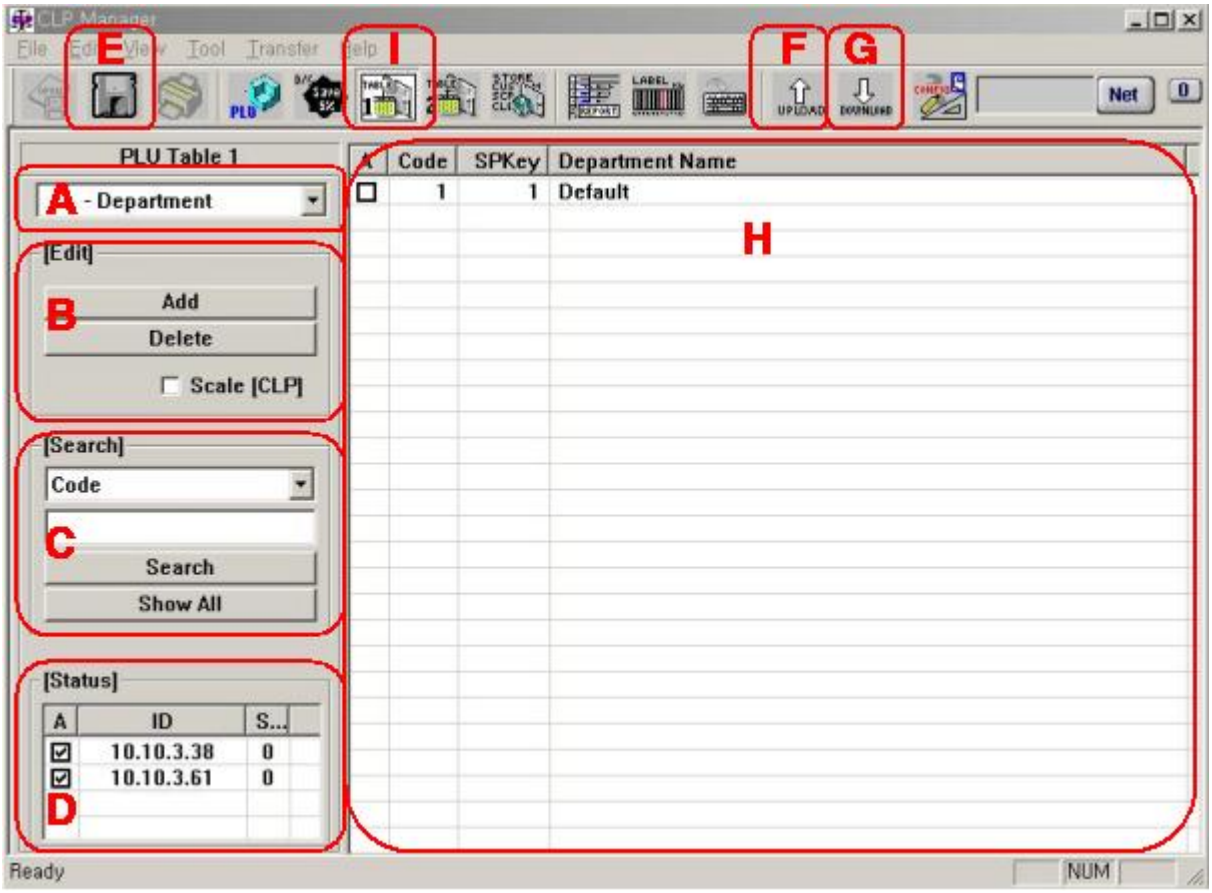
Type of discount, Table 4-1

Discount type	**PLU type**	**Object form**	Price form	Status
Unit price Discount	Weight	[0.000] kg	[0.000] $	
	Count	[ ] pcs	[ ] $	
% Unit Price discount	Weight	[0.000] kg	[0.000] %	
	Count	[ ] pcs	[ ] %	
Total price discount	Weight	[0.000] kg	[0.000] $	
	Count	[ ] pcs	[ ] $	
% Total price discount	Weight	[0.000] kg	[0.000] %	
	Count	[ ] pcs	[ ] %	
Fixed Price	Weight			
	Count			
Free Item	Weight		[0.000] $	
	Count		[ ] $	
Free addition	Weight	[0.000] kg	[0.000] kg	
	Count	[ ] pcs	[ ] pcs	
Total price by Total Price	Weight	[0.000] $	[0.000] $	
	Count	[ ] $	[ ] $	
% Total price by Total Price	Weight	[0.000] $	[0.000] %	
	Count	[ ] $	[ ] %	
Unit Price by Total price	Weight	[0.000] $	[0.000] $	
	Count	[ ] $	[ ] $	
Free addition by Total price	Weight	[0.000] $	[0.000] kg	
	Count	[ ] $	[ ] pcs	

5. Data Table I (PLU assist information I)

5.1. Data Table I formation

Data Table I is formed with Department, Group, Tax Rate, Sales Message, Origin, Barcode, Tare, PCS Unit look like <Data table I, Image 5-1> below



Data table I, Image 5-1

5.1.1. Table 1 Componets

Part A

A. It uses to choose among one of Department, Group, Tax Rate, Sales Message, Origin, Barcode, Tare, PCS Unit

Part B

B. ADD - Starts adding process choosen in <Data table **Error! Reference source not found.**, Image 5-1> at part A

C. Delete –Use to delete contents in <Data table**Error! Reference source not found.**, Image 5-1> at part H

D. Scale [LP5000] –o delete contents on scale

E. If you press delete button when had checked on the check box. It deletes code which exists on scale. If not, it deletes editing dialog on screen

Part C :

Use to search each of content on editing dialog

F. Search – Use to search data. Result will appear on display

G. Show All - It is to see all the data again after finishing searching

NOTE: It will not show up when selecting Tax Rate & PCS Unit

Part D :

H. Status –It shows IP list and ststus when using TCP/IP network

Note: It will not show up when you set to serial communication

Part E :

I. Save –Use to save or register data

Part F :

J. Upload –To bring data from scale to PC

Part G :

K. Download –Use to download data from PC to scale

Part H :

L. It shows seleted content data on display. This editing dialog can register or edit data

5.2. Data Table I instruction

Exlpains all about editing Data Table I

5.2.1. Starting new work

To start new work, follow the instruction below

Selete File in Menu

Choose New

Screen is ready for the new work

NOTE: It only applies to seleted content on at part A

5.2.2. Edit & Add

This chapter explains edit & adds data. If it is Barcode you want to work on.

Adding process

A. Select contents you want to work on the menu

B. Click ADD button on <Data Table **Error! Reference source not found.**, Image 5-1>. New data will add in grid dialog below

C. Write detail information on data you want to add

Edit process

D. Select contents you want to edit and press Enter or double-click it

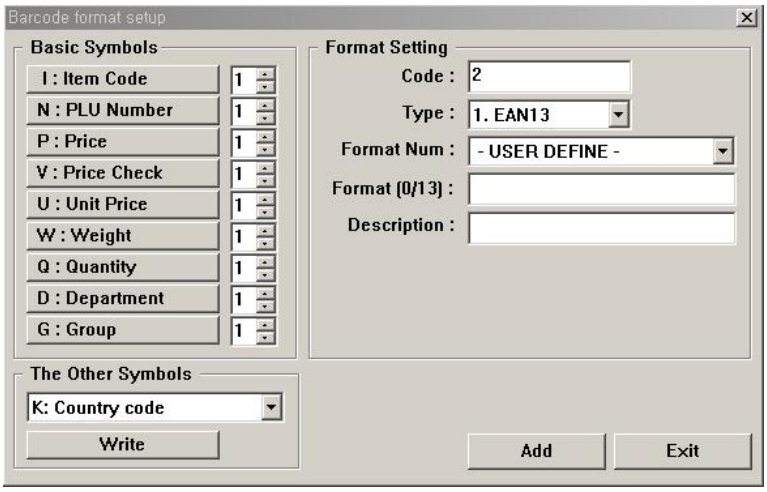
E. It turns to editing state like input state or choosing list state

F. When you finishing inputs, save the data

Add or edit barcode

G. Select Barcode on at part A

- Click ADD button
- When barcode input dialog appears like wirte barcode data in
- When input is finished, press ADD button
- Click EXIT button to finish adding process

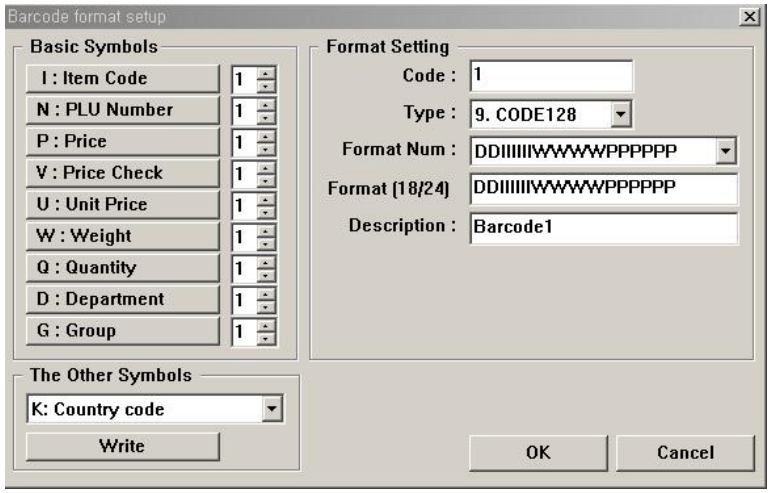


Add barcode dialog, Image 5-2

H. Edit process

I. Select Barcode on at part A

- Double-click the data you want to edit on <Data Table **Error! Reference source not found.**, Image 5-1> at part H
- Edit data when <Edit barcode dialog, Image 5-3> appears
- Click OK to finish the editing



Edit barcode dialog, Image 5-3

5.2.3. Save data

Finish adding data & editing

Click disk(save) icon on <Data Table Error! Reference source not found.**, Image 5-1> or click Save on File Menu**

NOTE : If informations are not in place, It will show caution message to fill in the data

If no caution message, saving is completed

NOTE : current data save in present database file. check from File Path in config

5.2.4. Searching data

How to find wanted among data

Instruction and control

A. Combo list on part C

It is the detail content lists of part A. Select the Field you want to search

B. Searching dialog on part C

Insert keyword you want to search

C. Search button on part C

Results about searching keyword

NOTE : Use Enter key for searching result

5.2.5. Delete data

Explains how to delete data

Delete the file on PC

A. Select contents you want to delete in <Data Table **Error! Reference source not found.**, Image 5-1> at part H

B. Click Delete button on <Data Table **Error! Reference source not found.**, Image 5-1> at part B

The Scale [LP5000] box must not checked

C. Selected contents will delete and screen renews on <Data Table **Error! Reference source not found.**, Image 5-1> at part H.

Delete scale data

D. Choose the content you want to delete on <Data Table **Error! Reference source not found.**, Image 5-1> at part H

E. Check Scale [LP5000] box

F. Click Delete button on <Data Table **Error! Reference source not found.**, Image 5-1> at part B

G. It will delete the data in scale if exist

[Reference: at least one contents is checked on <Data Table **Error! Reference source not found.**, Image 5-1> at part D, if you are using TCP/IP mode]

5.2.6. upload data

Explains how to upload data from scale.

upload instruction

A. Check conditions like communication mode, speed in setting communication in Config
[Reference: More details from 11.2.4. Commnication (Communicatin Config)

B. Selete contents you want to upload in <Data Table **Error! Reference source not found.**, Image 5-1> at part A

C. Click download icon part F to start

D. Dialog box and upload status will shown in right condition

NOTE : must selet only one when you using TPC/IP mode

5.2.7. Download

How to download present screen data to the scale.

How to download

A. Check all the conditions like mode, speed in Config communication setting

B. Select contents you want to download on

C. Click download icon on part G to start download

D. When it works right, you can see the downloading dialog / status

NOTE : TCP/IP mode. You must select at least one

5.3. Assist information on Data Table I

5.3.1. Input field table

<Data Table I, Image 5-1> shows each fields input area.

Table I property table, Table 5-1

Item	Field name	Property	Status
Department	Code	1 ~ 99	Number
	Speed Key	1 ~ 5	Number
	Department Name	27	Character
Group	Code	1 ~ 99	Number
	Group Name	28	Character
Tax Rate	Code	1 ~ 9	Number
	Type	0 ~ 1	Number
	Tax Rate (%)	0 ~ 9999	Number
Sales Message	Code	1 ~ 99	Number
	Sales Message	30	Character
Origin	Code	1 ~ 500	Number
	Origin Name	30	Character

Barcode	Code	1 ~ 99	Number
	Type	1 ~ 10	Number
	Format Number	0 ~ 4	Number
	Format	Ref. Table5-2 barcode format	Character
	Description	19	Character
Tare	Code	1 ~ 99	Number
	Type	1	Number
	Value	Depens on scale	Number
	Description	17	Character
PCS Unit	Code	1 ~ 8	Number
	PCS Unit	6	Character

roperty of each format barcode, Table 5-2

Barcode	Barcode Type	Input area	Status
	EAN13	13	Character
	EAN13A5	18	Character
	EAN8	8	Character
	I2OF5	24	Character
	UPCA	12	Character
	UPC13	13	Character
	CODE39	24	Character
	CODE93	24	Character
	CODE128	24	Character
	CODABAR	24	Character

5.3.2. Precautions

1. choosing another content on <Data Table I, Image 5-1> at part A, will make save on memories but not in the file

   Clicking Save icon will make all the memories to save in File. Before select the another content on <Data Table I, Image 5-1> at part A, make sure the job is right
2. You must check communication status between PC and scale before upload, download or delete data
3. There is two way to communicate with, serial communication and network dommunication. Serial is fixed to one scale

   It is to upload from one scale at the same time. So, must checked one scale on <Data Table I, Image 5-1> at part D

   Data on present screen will disappear when starting upload. Do save the job before upload

6. Table2

6.1. Outline

You can edit or save basic information need to include in products. Agricultural and marine products need to indicate where its from. Stockbreeding processes must show native and distribution path. Table 2 can manage these informations

6.2. Formation

Click Table 2 icon on main toolbar <Table 2 editor, Image 6-1>

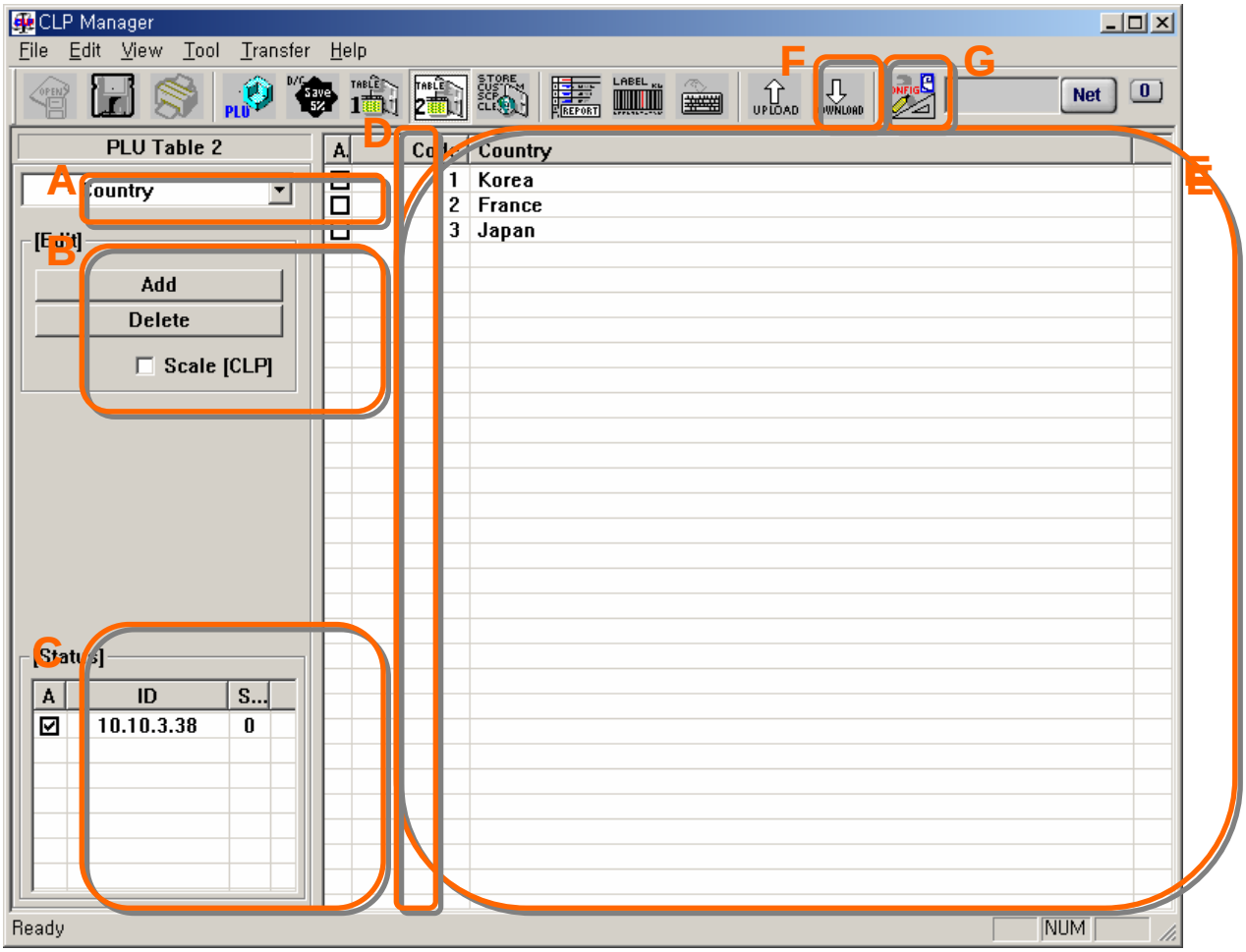


Table 2 editor, Image 6-1

Table 2 have similar user interface like other modules in main program. It forms in showing data, selecting field, processing add or delete data. It can save, open, upload and download data like other modules

6.2.1. Table 2 Componets

<Table 2 editor, Image 6-1> part A

This part is to choose the data you want to edit among table 2 modules. You can select or input data which albe to choose on table 2 editor. Data can edit is shown down below

A. Country

It puts basic information about country. It applays data which basically includes on counrty in Table 2

If there is no basic data been inputed, it must be at first place to put in

B. Nutrifact

Input nutrition facts

C. Ingredient

Input Ingredient information

D. Slaughterhouse

It needed to input country and slaughterhouse information if it is stockbreeding processed product

E. CuttingHall

Input country and cutting hall informaiton

F. Traceability

Input stockbreeding processed code like country, slaughterhouse, cutting hall. It should be the last process from all above

Part B :

G. It is the basic funtion buttons. It can add, edit, delete data on the right list

Add new data on each input modules

H. Del –It is to delete selected data. Becareful when you delete data. It can not recall the data after deleted

Part C :

I. Status –It shows IP list and ststus when using TCP/IP

Part D :

J. Vertical axis- PLU list

K. You can select PLU you want

L. To select all on the list, click column A

Part E :

M. It is the table which shows saved data on PC

6.3. Instruction

Data on table 2 is correlated information. If you change country on data, it will update to new information to old data

When you first input data, it needs to input basic information first. Country information should be first. Stockbreeding process information or product delivery information will follow next. Every data must save to use in other processes

6.3.1. Starting Table 2 information

You can start input information about Table2 by click Table2 on toolbar. Once you click Table2, input module is going to start and will shown on the screen

To input new data, it's important to input information in following order. First input Country, Slaughterhouse, Cutting hall and traceability information

6.3.2. Framing Table2 information

When you start a new job, you should input Country first. It has to put Country, Slaughterhouse, Cutting Hall, and Traceability in order. Press save to update new data to other parts

NOTE: Nutrifact and Ingredient will not get any influence by other data

6.3.3. Save

Click diskette icon or Save in File to save data

To prevent blackout or unexpected PC problems click save offen

6.3.4. Upload data

Upload instruction

Check network conditions like communication mode, speed in setting communication in Config

A. Selete contents you want to upload in part D

B. Click icon on part F to start

C. Dialog box and upload status will shown in right cnodition

6.3.5. Download data

1. How to download

A. Select contents you want to download on <Table2 editor, Image 6-1> at part A

B. Click icon on <Table2 editor, Image 6-1> at part G to start download

C. When it works right, you can see the downloading dialog and status

6.4. Table 2 reference

6.4.1. Input property table

Table 2 Input property table, Table 6-1

Item	Field name	Property	Status
Ingredient	Code	1 ~ 999	Number
	Text	1 ~ 512	Character
Nutrifact	Code	1 ~ 50	Number
	Type	0 ~ 1	Number
	Description	0 ~ 20	Character
	Serving Size	0 ~ 20	Character
	Serving Per	0 ~ 10	Character
	Calories	0 ~ 255	Number
	Calories From Fat	0 ~ 255	Number
	Total Fat	0 ~ 255	Number
	Saturated Fat	0 ~ 255	Number
	Cholesterole	0 ~ 255	Number
	Sodium	0 ~ 255	Number
	Total Carbohydrate	0 ~ 255	Number
	Dietary Fibers	0 ~ 255	Number
	Sugars	0 ~ 255	Number
	Protein	0 ~ 255	Number
	Vitamin A	0 ~ 255	Number
	Calcium	0 ~ 255	Number
	Vitamin C	0 ~ 255	Number
	Iron	0 ~ 255	Number
	Etc	0 ~ 255	Number
Traceability	Code	1 ~ 99	Number
	Text	0 ~ 22	Character
	Born Country	Ref. Country table	List
	Bred Country	Ref. Country table	List
	Slaughterhouse	Refer to Slaughterhouse table	List
	Cutting Hall	Refer to Cuttinghall table	List
Country	Code	1 ~ 250	Number
	Country	62	Character
Slaughterhouse	Code	1 ~ 50	Number

	Country	Refer to Country table	List
	Text	99	Character
Cuttinghall	Code	1 ~ 250	Number
	Country	Refer to Country table	List
	Text	0 ~ 28	Character

6.4.2. Precaution

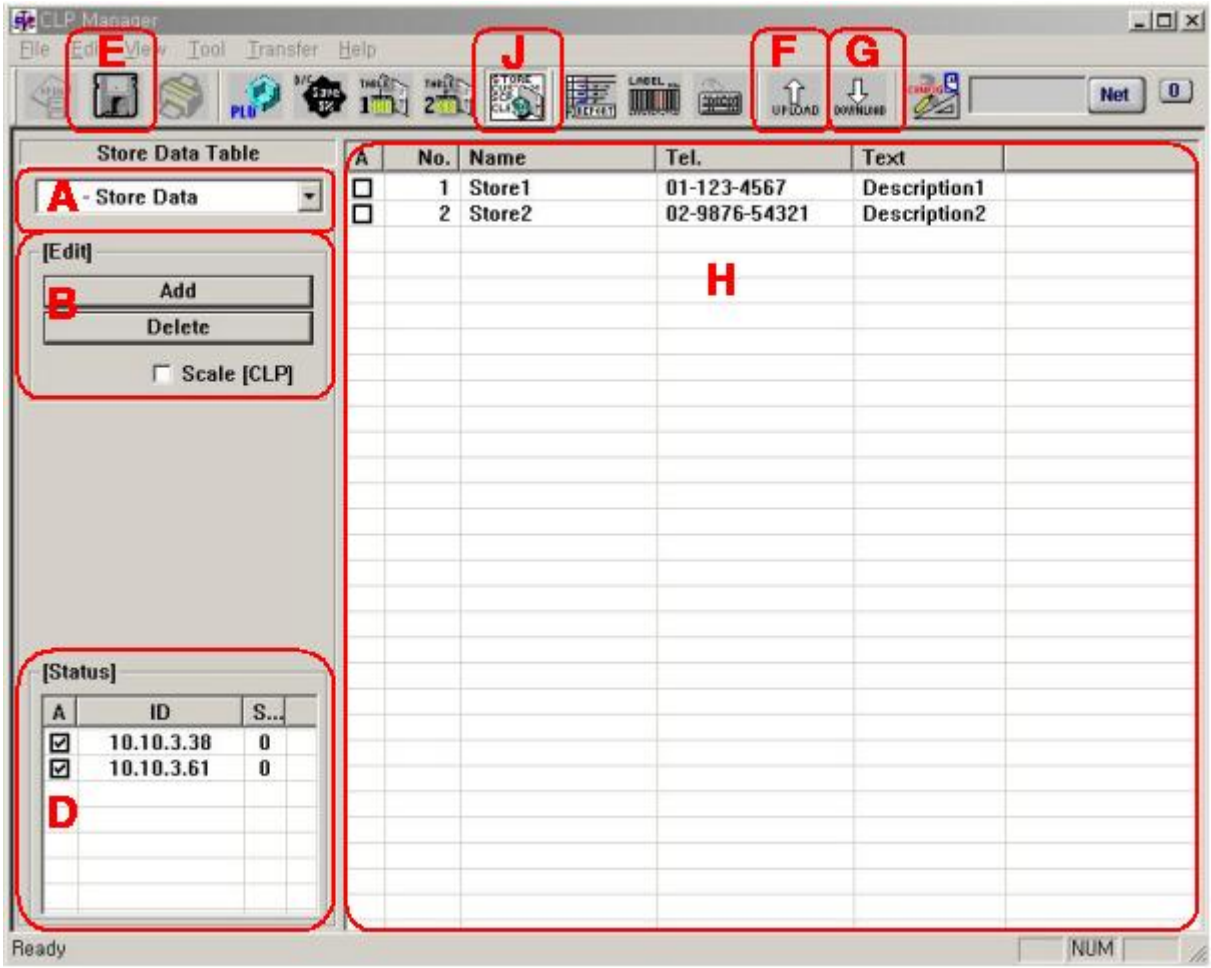
Choosing another content on <Table2 editor, Image 6-1> at part A, will make save on memories but not in the file
Clicking Save icon will make all the memories to save in File.
Before select the another content on <Table2 editor, Image 6-1> at part A, make sure the job is right
You must check communication status between PC and scale before upload, download or delete data
There is two way to communicate with, serial communication and network dommunication. Serial is fixed to one scale
It can upload from one scale at the same time. When you using network communication only one scale must selected at <Table2 editor, Image 6-1>

Data on present screen will disappear when starting upload. Do save the job before upload

7. Store Data (PLU assist information III)

7.1. Store data formation

This program can register or edit information about store ,customer, and user himself Store Data formed with Store Data, Customer, Scroll Message, User/Security and looks like <Store Data, Image 7-1> at below



Store Data, Image 7-1

7.1.1. Explanation and name

1. Part A

   It uses to choose among one of Store Data, Customer, Scroll Message, User/Security

1. Part B :

   A. ADD - Starts adding process choosen in <Store Data, Image 7-1>at part A

   B. Delete –Use to delete contents in <Store Data, Image 7-1> at part H

   C. Scale –To delete contents on scale

   If you press delete button when had checked on the check box. It deletes code which exists on scale. If not, it deletes editing dialog on screen

2. Part D :

   Status –It shows IP list and stastus when using TCP/IP network

3. Part E :

   Save –Use to save or register data

4. Part F :

   Upload –To bring data from scale to PC

5. Part G :

   Download –Use to download data from PC to scale

6. Part H :

   It shows seleted content data on <Store Data, Image 7-1>. This editing dialog can register or edit data

7.2. Store Data instruction

7.2.1. Starting a new work

To start new work, follow the instruction below

1. Selete File in Menu
2. Choose New
3. Screen is ready for the new work

7.2.2. Edit & Add

1. Add process
   A. Select contents you want to work on in <Data Table **Error! Reference source not found.**, Image 7-1> at part A
   B. Click ADD button. New data will add in grid dialog below
   C. Write detail information on data you want to add
2. Edit process
   A. Select contents you want to edit and press Enter or double-click
   B. It turns to editing state (input state or choosing list state)
   C. When you finishing inputs, save the data

7.2.3. Save

Explains about register or save edited data

A. Finish adding data & editing

B. Click E icon on <Data Table **Error! Reference source not found.**, Image 7-1> or click Save on File Menu

   [Reference: If basic informations are not in place, It will not save. When caution message is appeared checks data and try again]

C. If no caution message is appeared, saving is completed

[Reference: Data is going to save in present database file. It can check from File Path in Config program]

7.2.4. Delete

Explains how to delete data

1. Delete the file on PC
   A. Select contents you want to delete in <Store Data, Image 7-1> at part H
   B. Click Delete button on <Store Data, Image 7-1> at part B
      [Reference: The Scale [LP5000] box must not checked]
   C. Selected contents will delete and screen renews on <Store Data, Image 7-1> at part H
2. Delete scale data
   A. Choose the content you want to delete on < Store Data, Image 7-1> at part H
   B. Check Scale [LP5000] box
   C. Click Delete button on < Store Data, Image 7-1> at part B
   D. It will delete the data in scale if exist

   [Reference: at least one contents is checked on < Store Data, Image 7-1> at part D, if you are using TCP/IP mode]

7.2.5. Upload

Explains upload data from scale [Reference: PC and scale need to connect in first place]

1. Upload instruction
   A. Check scale is right

   Check conditions like communication mode, speed in setting communication in Config
      A. [Reference: More details look for the <11.2.4.Communication (communication configuration)>]
   B. Selete contents you want to upload in <Store Data, Image 7-1> at part A
   C. Click icon on <Store Data, Image 7-1> part F to start
   D. Dialog box and upload status will shown in right cnodition

   [Reference: Only one must seleted when you using TPC/IP mode <Table2 editor, Image 6-1> at part D]

7.2.6. Download data

Explains download present screen data to the scale. This funtion will work when PC and scale is connected

1. How to download
   A. Check scale is working right
   B. Check all the conditions like mode, speed in Config Communication setting
      [Reference: More details look for the <11.2.4. Commnication (Communication Configuration)>]
   C. Select contents you want to download on <Store Data, Image 7-1> at part A

D. Click icon on <Store Data, Image 7-1> at part G to start download

E. When it works right, you can see the downloading dialog and status

[Reference: When you using the TCP/IP mode. You must select at least one on <Store Data, Image 7-1> at part D]

Store Data assist information

Explains characteristic of each data in <Store Data, Image 7-1> and precautions

7.2.7. Property table

<Store Data, Image 7-1> shows each fields input property. You can not overwrite when you add or edit data

Store Data Input property table, Table 7-1

Item	Field name	Property	Status
Store Data	No.	1 ~ 10	Number
	Name	26	Character
	Tel.	20	Character
	Text	80	Character
Customer	No.	1 ~ 99	Number
	Name	32	Character
	Tel.	24	Character
	Credit Limit	0 ~ 9999999	Number
	Address 1	50	Character
	Address 2	50	Character
	Address 3	50	Character
Scroll Message	No.	1 ~ 9	Number
	Effect	1 ~ 2	Number
	Message	86	Character
	Daily	0 ~ 1	Number
	Week	0000000 ~ 1111111	-
	Start Date	000000 ~ 991231	-
	End Date	000000 ~ 991231	-
	Start Time	000000 ~ 240000	-
	End Time	000000 ~ 240000	-
User/Security	No.	1 ~ 95	Number
	Name	24	Character
	Nick name	8	Character
	Password	8	Character
	Level	0 ~ 3	Number

7.2.8. Precautions

1. Choosing another content on <Store Data, Image 7-1> at part A, will make save on memories but not in the file

   Clicking Save icon will make all the memories to save in File. Before select the another

content on <Store Data, Image 7-1> at part A, make sure the job is right

2. You must check communication status between PC and scale before upload, download or delete data
3. There is two way to communicate with, serial communication and network dommunication. Serial is fixed to one scale

   It can upload from one scale at the same time. When you using network communication, only one scale must selected at <Store Data, Image 7-1>

   Data on present screen will disappear when starting upload. Do save the job before upload

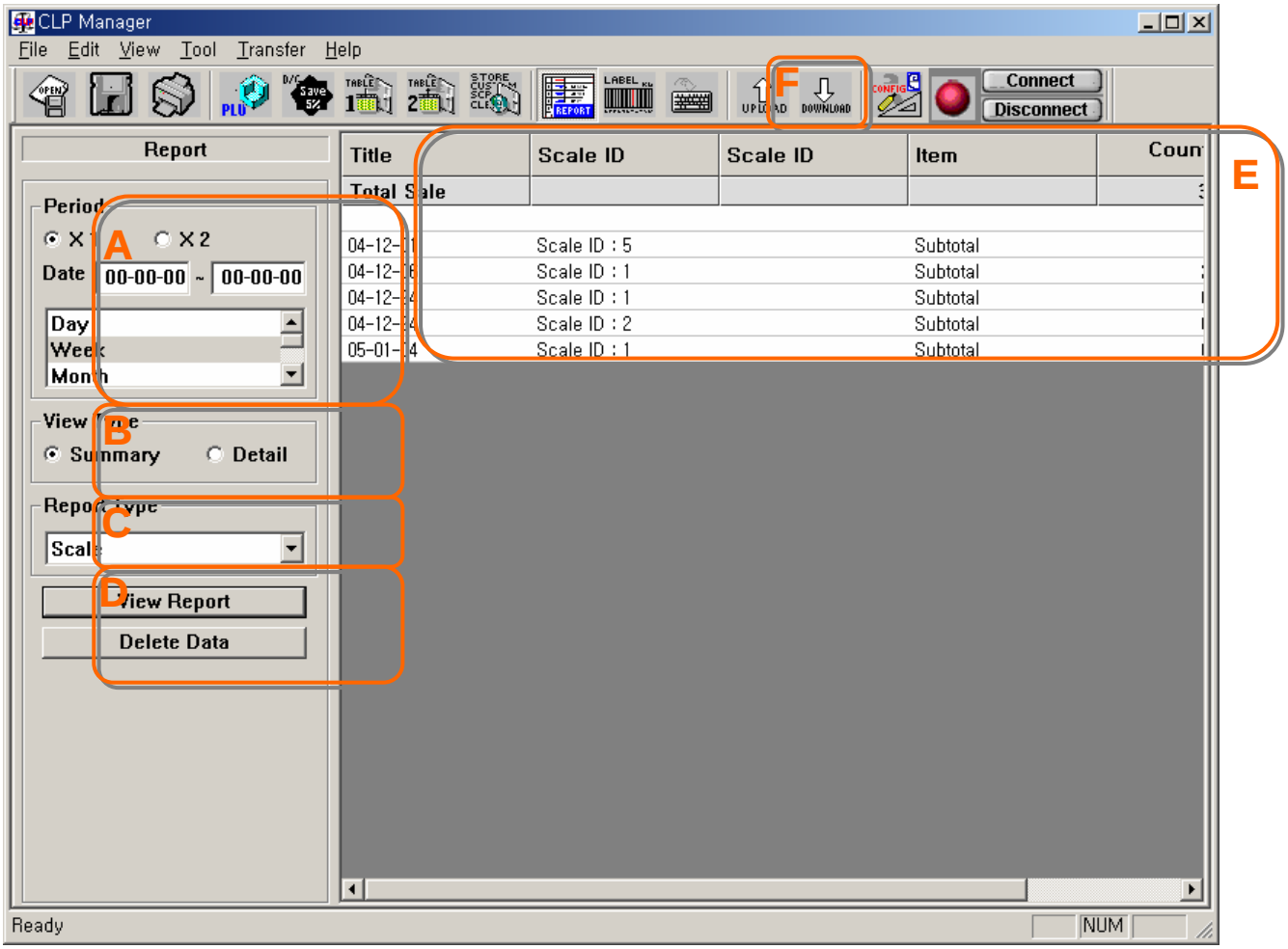
8. Report

8.1. Outline

This chapter explains seeing reports about sales data information which saved in scale. This report is in PC and indicates newly update data from the scale

8.2. Formation

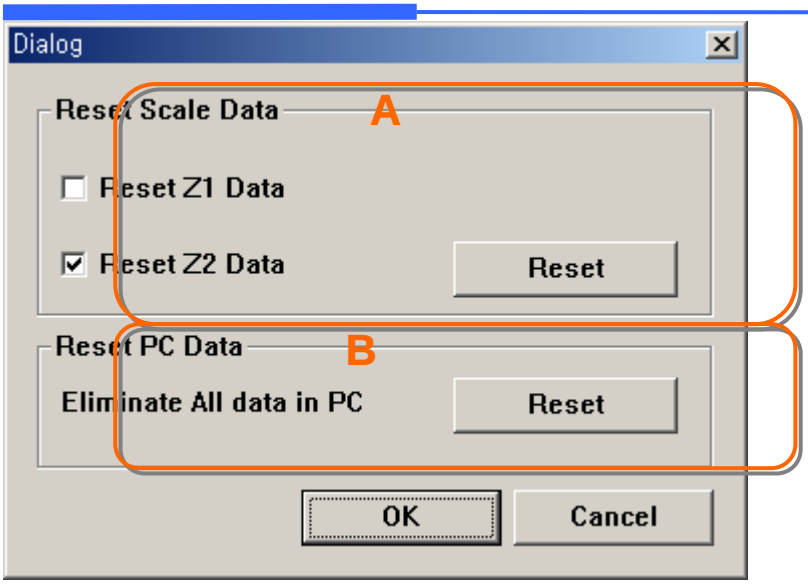
You can use to click Report on main toolbar and it will show up like <Seeing report, Image 8-1> below



Seeing Reort, Image 8-1

You can select the contents you want to see in <Seeing report, Image 8-1>. <8.3.1.Start seeing report> explains seeing report contents

You can see the <Delete dialog, Image 8-2> when you click Delete Data at <Seeing report, Image 8-1> part D. Becareful when you delete the data, it can not recall the data once deleted



Delete dialog, Image 8-2

8.2.1. Names and Explaining

Normal screen

A. (Seeing report, Image 8-1) part A

- Select the period of the report you want to see
- Input form follows set up date form in Config

B. (Seeing report, Image 8-1) part B

- This part decides how to see the report
- Scale data contents 64 data field and hard to find sales information at once
- So, it decides to see insimple way or detail

C. (Seeing report, Image 8-1) part C

Report type you can see is down below

- Scale –can see the report by each scale
- PLU – can see the statistics saled by PLU
- Group –It shows the statistics saled by PLU Group
- Department –It shows PLU stastic which seperated by Department
- Hourly –It shows hourly saled stastics
- Clerk –It shows each clerk's saled stastics

D. Part D : View Report - Use to see reports

- It shows the report which set date in (Seeing report, Image 8-1) part A & decide in <Seeing report, Image 8-1> part B
- It might take long time to get report if you seet up Detial in <Seeing report, Image 8-1> part B

E. Delete Data –It use to delete data

- <Seeing report, Image 8-1> will show up by clicking button. It can delete data saved in PC or Scale)

F. Part E :

- Upload –It uploads data from scale to PC. It supports easy to edit data using PC

보고서 지우기 **(Delete Data)**

G. <Delete dialog, Image 8-2> part A

- Delete saved data in scale
- Sales information saved on scale will delete by press Reset
- Becareful to delete data by mistake

H. <Delete dialog, Image 8-2> part B

- Delete saved data in PC
- Sales information saved on PC will delete by press Reset
- It can not recall the deleted data

8.3. Instruction

It is made to see the report of contents stastic information which saled on scale. It can not edit or download data

8.3.1. Start seeing report

Start by clicking Report at toolbar or Tool->Report in menu

To see reports follow the down below

Select period

A. To select the date, choose date at <Delete dialog, Image 8-2>. Korea uses year-month-date basically. If you want to change, go to 11.2.1.Scale (Sclae Cofig). After you change date form, input need to follow the form

B. It uses 2 units form in year. For example, if you want to see the spastics between 01-01-2004 ~ 12-30-2004, input 04-01-01 and 04-12-31

C. If you puts wrong in period or puts 00-00-00 in blank, it prints every statistic data saved

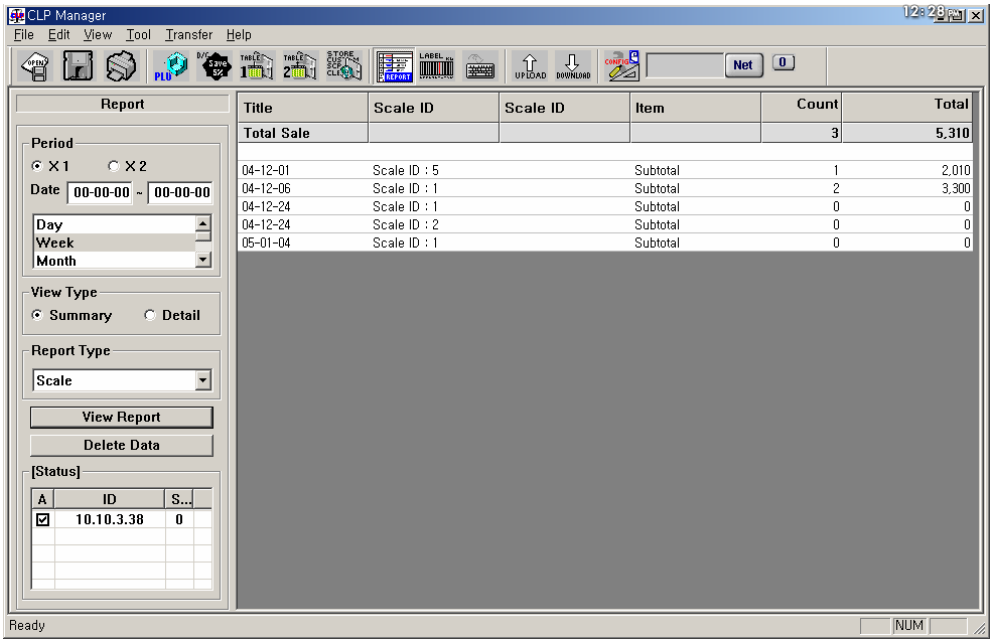
Select View type

D. Depends on reports, It had many informations on one sales information

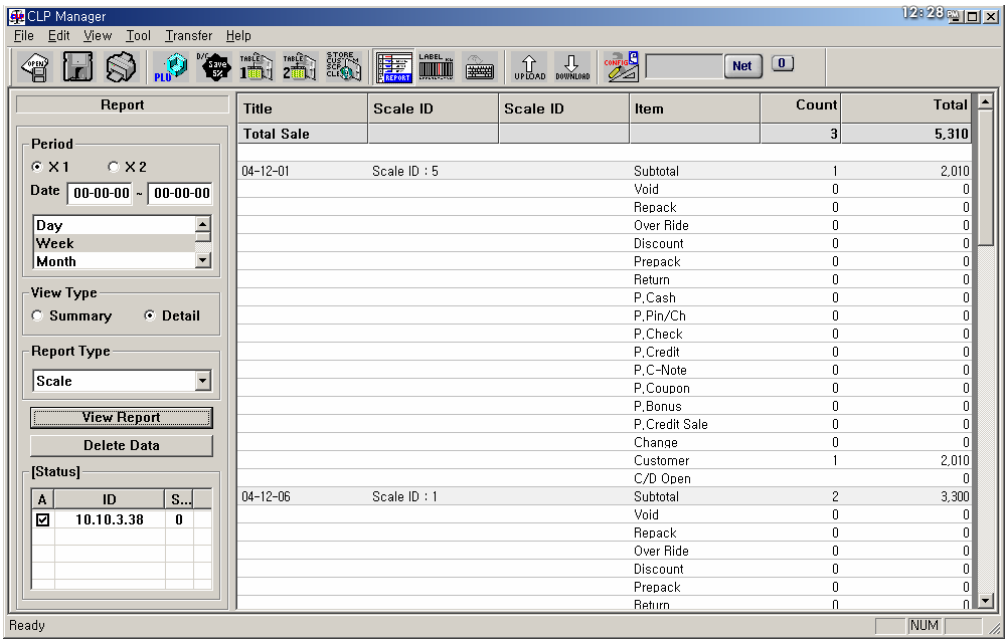
E. For example, Scale information shows 64 data on each scale

F. It is hard to understand at seeing once

G. To solve this problem, this funtion use to view simple informations user want to see



Simple View, Image 8-3



View detail, Image 8-4

You can print it by select View Report at <Delete dialog, Image 8-2>

8.3.2. Edit view report

It do not support edit data in view report

8.3.3. Save view report

It saves in PC database automatically even you don't press save button

8.3.4. Upload data

Explains upload data from scale [Reference: PC and scale need to connect in first place

Upload(Upload instruction)

Check scale is right

Error! Reference source not found.. Check conditions like communication mode, speed in 11.2.1.Scale (Scale Config)

E. Selete contents you want to upload in <View Report 8-1> at part D

F. Click icon on <View Report 8-1> part F to start

G. Dialog box and upload status will shown in right cnodition

[Reference: Only one must seleted when you using TPC/IP mode <View Report 8-1> at part C]

8.3.5. Download

It is read only. It do not support download data to scale

8.4. View Report reference

Explains characteristic of each data in <View Report, Image 8-1> and precautions

8.4.1. Input property table

Showing each fields input property. You can not overwrite when you add or edit data

Table 8-1 **Report field**

Itme	Name	Explainnig	Status
Scale	Title	Date	
	Scale ID	scale No	
	Item	sales history	
	Count	Aggregate unit	
	Total	Aggregate price	
PLU	Title	Date	
	PLU	PLU No	
	Item	sales history	
	Count	Aggregate unit	
	Total	Aggregate price	
Group	Title	Date	
	Group	Group No	
	Item	sales history	
	Count	Aggregate unit	
	Total	Aggregate price	
Department	Title	Date	
	Department	sales part	
	Item	sales history	
	Count	Aggregate unit	
	Total	Aggregate price	
Hourly	Title	Date	
	Hourly	Hourly condition	
	Item	sales history	
	Count	Aggregate unit	
	Total	Aggregate price	
Clerk	Title	Date	

	Clerk	sales person	
	Item	sales history	
	Count	Aggregate unit	
	Total	Aggregate price	
Tax	Title	Date	
	Tax	Tax	
	Item	sales history	
	Count	Aggregate unit	
	Total	Aggregate price	

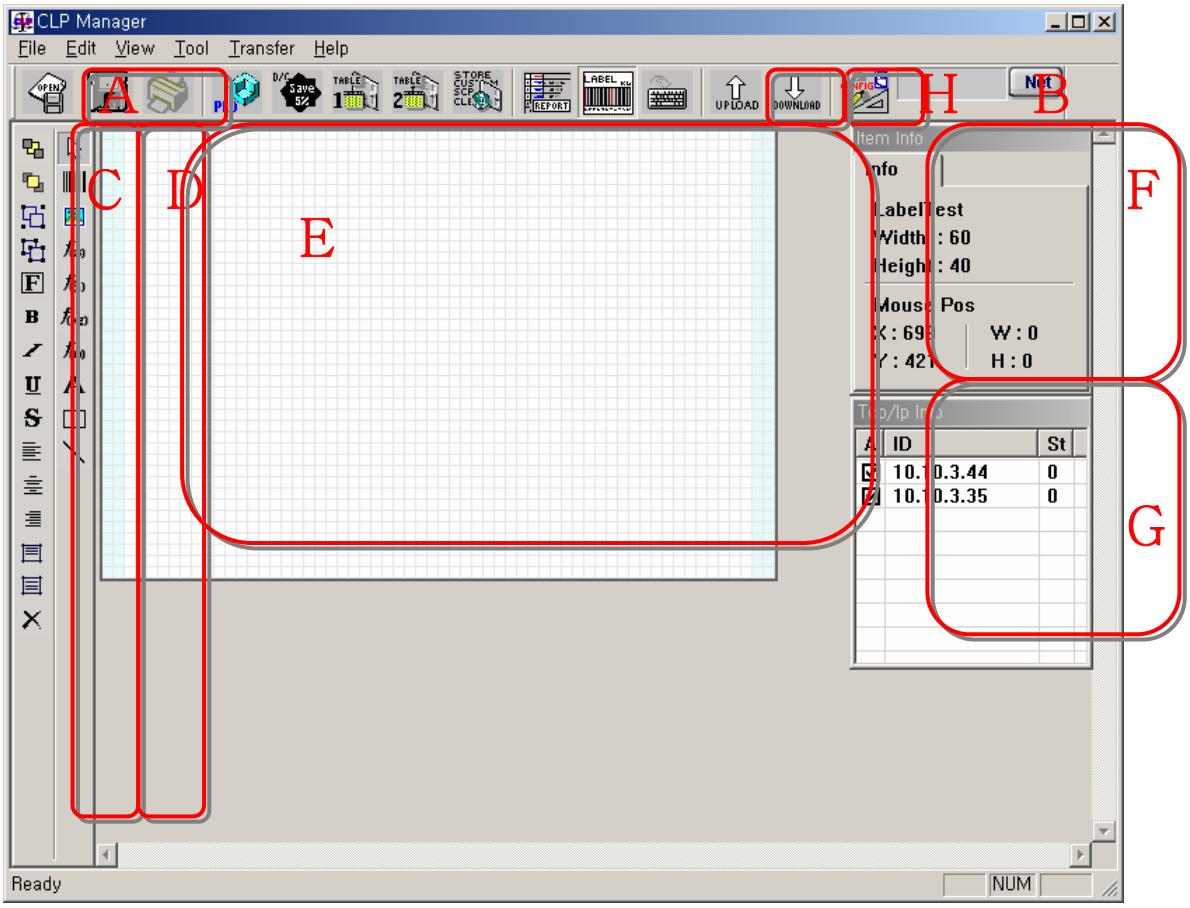
9. Label Editor

9.1. Label Editor Outline

This chapter explains about label editor. It can make labels use in scale

9.2. Label editor formation

Explains names and formation of label editor



Label Editor, Image 9-1

1. Part A

   It use to save label format or bring up saved label format

2. Part B :

   Use to download the worked on label format

3. Part C :

   A. 1st icon-move selected item to the bottom

   B. 2nd icon-move selected item to the top

   C. 3rd icon-make group to selected items

   D. 4th icon-dismiss the selected group

   E. 5th icon-It sets font

   F. 6th icon-It set font bold

G. 7th icon-makes font bent
H. 8th icon-draw line on bottom
I. 9th icon-draw line in the middle
J. 10th icon-set line to the left
K. 11th icon-set line to the middle
L. 12th icon-set line to center
M. 13th icon-set line to the right
N. 14th icon-set line to the top
O. 15th icon-set line to the middle of downside
P. 16th icon-delete selected icon

4. Part D :
   A. 1st icon-change to select item condition
   B. 2nd icon-Add barcode
   C. 3rd icon-Add image item
   D. 4th icon-Add basic field item
   E. 5th icon-Add field item related to price
   F. 6th icon-Add field item relatd to weight
   G. 7th icon-Add field item related to date and time
   H. 8th icon-Add fixed text item
   I. 9th icon-Add box item
   J. 10th icon-Add line item
5. Part E :
   This blank shows item
6. Part F :
   It shows iem and mouse working information
7. Part G :
   It shows scale list when using TCP/IP communication)
   [Reference: It shows up when TCP/IP communication is set]

9.3. Label editor instruction

9.3.1. Starting label editor

1. Click Label button at <Label editor, Image 9-1> part H

Another way to start

1. Click CL5000Manager on tesktop to start
   It opens last data you worked with
2. Click Label button at <Label editor, Image 9-1> part H

9.3.2. Start new job in label editor

After processed <Label editor, Image 9-1>, you can move to new work

1. Select file menu and go to new

9.3.3. Add default field item on label editor

Explains how to add basic field item on new label form or existing label form

1. Click 4th icon on <Lable editor, Image 9-1> at part D
2. Click <Lable editor, Image 9-1> part E. default dialog will appear
3. Select field in field list on dialog
   Reference: Refer to <Lable editor, Image 9-1>]
4. Field item will add on label form

9.3.4. Add fixed text item in label editor

Explains how to add fixed text item on label form

1. Click 8th icon on <Lable editor, Image 9-1> at part D
2. Click <Lable editor, Image 9-1> at part E
3. Fixed text item will shown

9.3.5. Add barcode item in label editor

Explains how to add barcode item to label form

1. Click 2th icon on <Lable editor, Image 9-1> at part D
2. Click <Lable editor, Image 9-1> at part E. Barcode dialog will appear and select the barcode type
   [Reference: Refer to <Lable editor, Image 9-1>]
3. Click OK button. Barcode will shown on label form

9.3.6. Add image item on label editor

Explains how to add image item on label editor

1. Click 3th icon on <Lable editor, Image 9-1> at part D
2. Click <Lable editor, Image 9-1> at part E. Image dialog will appear
   [Reference: Refer to <Lable editor, Image 9-1>]
3. Click image browser button on image file dialog
4. Image browser dialog will show up in screen
   [Reference: Refer to <Lable editor, Image 9-1>]
5. Select image file and option
6. Write image ID
7. Click Ok button and browser dialog will disappear
8. Click Ok once again
9. Image will add

9.3.7. Add box/line item on label editor

Explains how to add box and line item

1. Add box item instruction
2. Click 9th icon on <Lable editor, Image 9-1> at part D
   A. Click <Lable editor, Image 9-1> at part E. box dialog will appear
   [Reference: Refer to <Lable editor, Image 9-1>]
   B. Select box and line type and click OK button
   C. Box item will add
3. Add line item instruction
4. Click 10th icon on <Lable editor, Image 9-1> at part D
   A. Click <Lable editor, Image 9-1> at part E. Line dialog will appear
   [Reference: Refer to <Lable editor, Image 9-1>]
   B. Select line type and click OK button
   C. Line item will add

9.3.8. change string item type

1. change font type
   Choose the item which you want to change font
   A. Click 5th icon on <Lable editor, Image 9-1> at part D. Font dialog will appear. Select font and click OK button
   B. bold-Click 6th icon on <Lable editor, Image 9-1> at part C
   C. italic-Click 7th icon on <Lable editor, Image 9-1> at part C
   D. underlinie-Click 8th icon on <Lable editor, Image 9-1> at part C
   E. throwline-Click 9th icon on <Lable editor, Image 9-1> at part C
   F. left line-Click 10th icon on <Lable editor, Image 9-1> at part C
   G. middle line-Click 11th icon on <Lable editor, Image 9-1> at part C
   H. left line-Click 12th icon on <Lable editor, Image 9-1> at part C
   I. top of downside-Click 13th icon on <Lable editor, Image 9-1> at part C
   J. middle of downside-Click 14th icon on <Lable editor, Image 9-1> at part C
   [Reference: If many types of items been selected it changes only able ones]
2. changing general form
   A. change fixed text form
      - First, doubleclick fixed text item
      - fixed text dialog will appear
      - Select General tab
      - Edit text
      - Click OK button
   B. Changing field form
      - First, doubleclick field text
      - Field text will appear
      - Select General tab

- Select field in field list
- Click OK button

3. Changing user detail form
   A. First, doubleclick string item
   B. dialog will appear
   C. Choose Custom tab
   D. Doubleclick form price you want
   E. Input price when it changes to editor dialog
   F. Click OK button
      [Reference: refer to <Lable editor, Iamge 9-1> about each attributes]

9.3.9. change barcode item type

Explaining about changing barcode type

1. General type
   A. Doubleclick barcode
   B. Choose General tab
   C. Select or input barcode type, barcode width and string
      [Reference: Refer to <Lable editor, Image 9-1>]
   D. Click OK button
      [Reference: Refer to <Lable editor, Image 9-1> about the barcode type]
2. Changing user detail form
   A. First, doubleclick barcode
   B. Choose Custom tab
   C. Doubleclick form price you want
   D. Input price when it changes to editor dialog
   E. Click OK button
      [Reference: refer to <Lable editor, Image 9-1> about each attributes]

9.3.10. Changing image type

Explains about changing image item

1. changing image ID
   A. doubleclick image item
   B. (Image dialog<Label editor, Image 9-1> will appear)
   C. Input image ID
   D. Click OK button
      [Reference: If no image ID is exist. General image will appear]
2. changing image file
   A. doubleclick image item
   B. start File Searching Dialog<Label editor, Image 9-1>
   C. Select image file

D. name the image type

[Reference: Image had its own ID. Image ID use when you change Image in Image dialog. It will overwrite when it has Image ID. Color image need to set print image option to print out. Usable image size is 8kbyte.]

E. Click OK button

9.3.11. Changing box, line type

1. General type
   A. Doubleclick box or line item
   B. Select General tab
   C. Input or select box and line
      [Reference: Refer to <Lable editor, Image 9-1>]
   D. Click OK button
2. Changing user detail form
   A. Doubleclick box or line item
   B. Select Custom tab
   C. Doubleclick form price you want
   D. Input price when it changes to editor dialog
   E. Click OK button
      [Reference: refer to <Lable editor, Image 9-1> about each attributes]

9.3.12. Select, make order, setting group, dismiss group

Explains about select item, setting group, dismiss group

1. Select-you can select the item among the lable form which made up with many items
2. Send itme to bottom- Select the items and click 1st icon at <Lable editor, Image 9-1> part C
   [Reference: press tab key on keyboard to use in item order]
3. Send item to top- Select the items and click 2nd icon at <Lable editor, Image 9-1> part C
4. Seting group-Select the items and click 3rd icon at <Lable editor, Image 9-1> part C
   [Reference: group can not include another group]
5. Dismiss group- Select the items and click 4th icon at <Lable editor, Image 9-1> part C

9.3.13. Delete item

Explains how to delete item

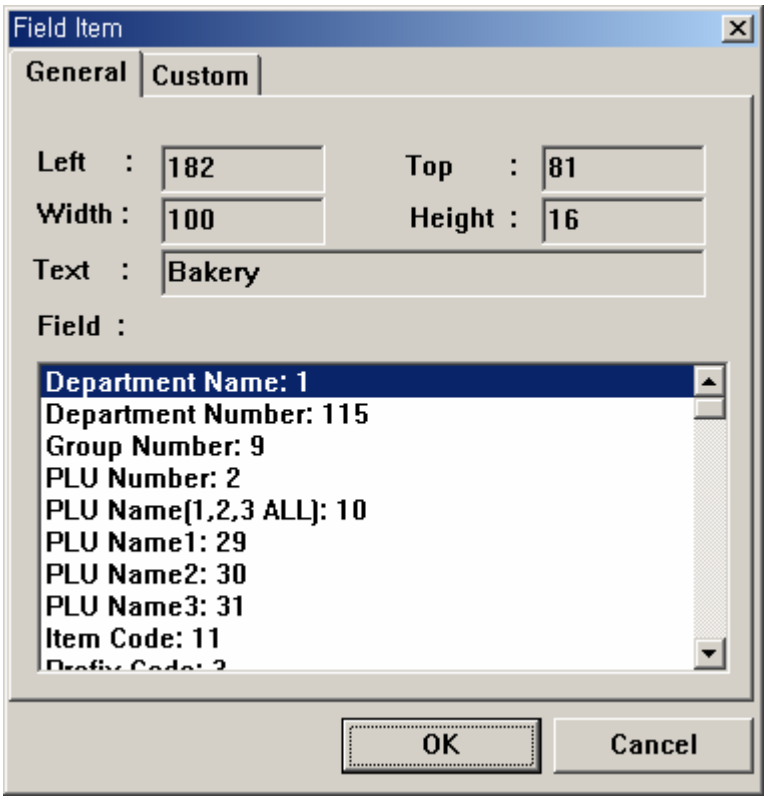
1. Using mouse to delete
   A. Choose the item you want to delete
   B. click last icon at <Lable editor, Image 9-1> part C
2. using Keyboard to delete
   A. select item you want to delete
   B. press Del key on keyboard

9.4. Label editor reference

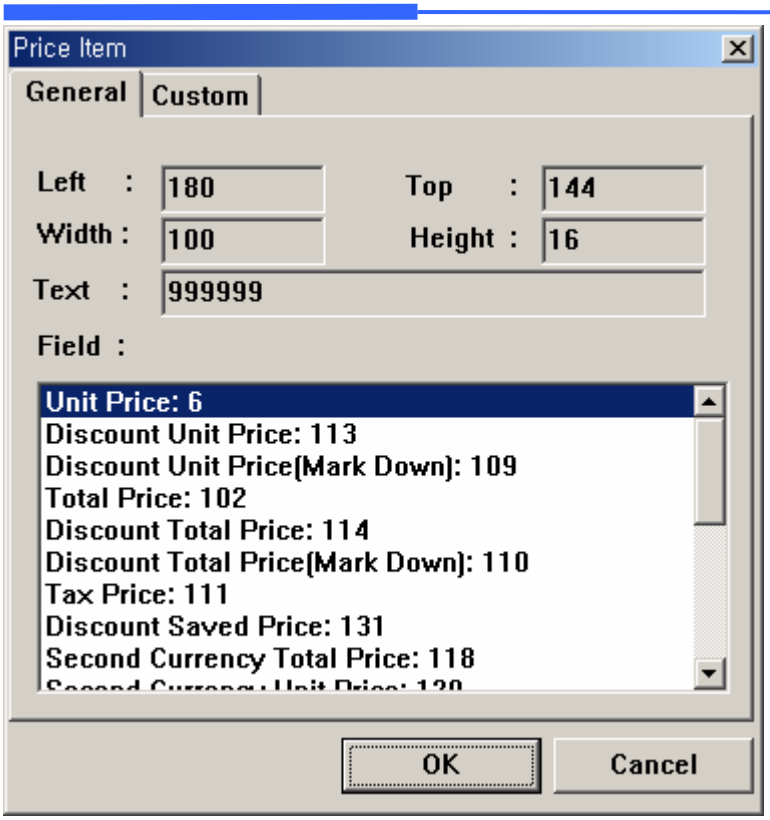
It arranges dialog image, attribution of items and contents user can refer in label editor

9.4.1. label editor dialog image

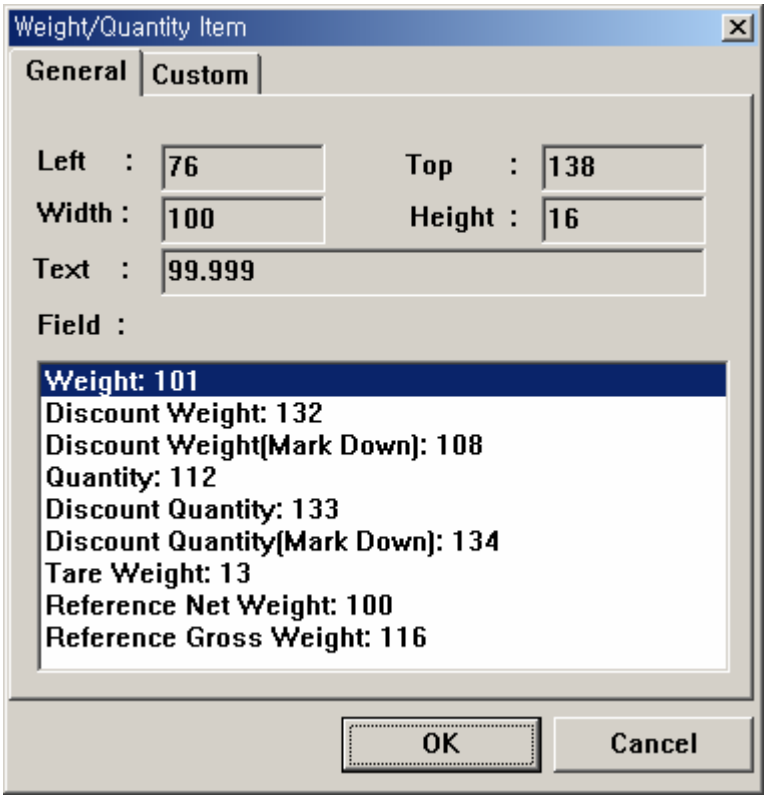
It's dialog box list using in label editor



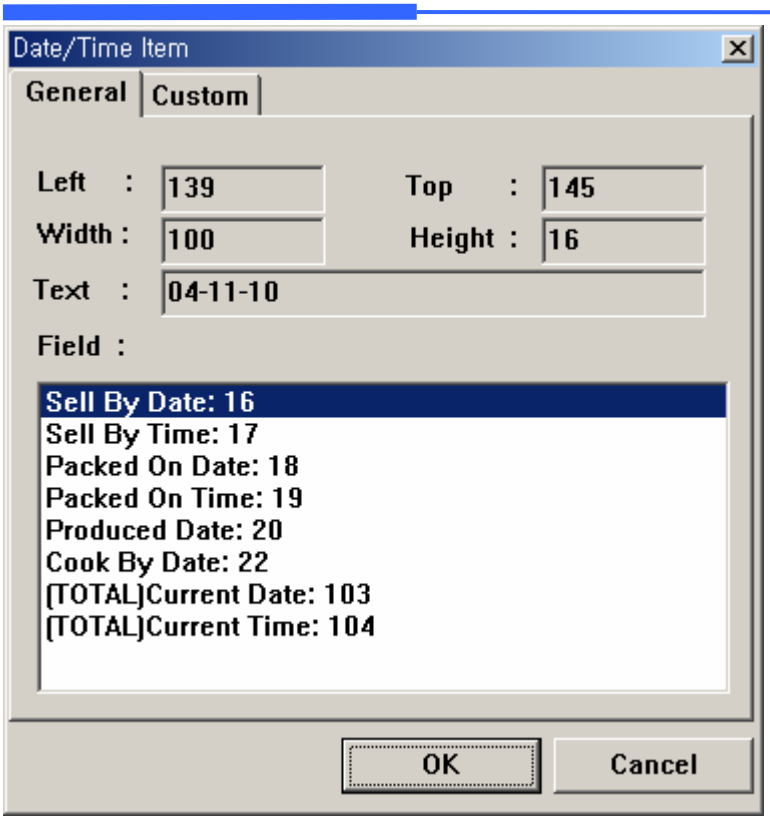
(Default Field Dialog, Image 9-2)



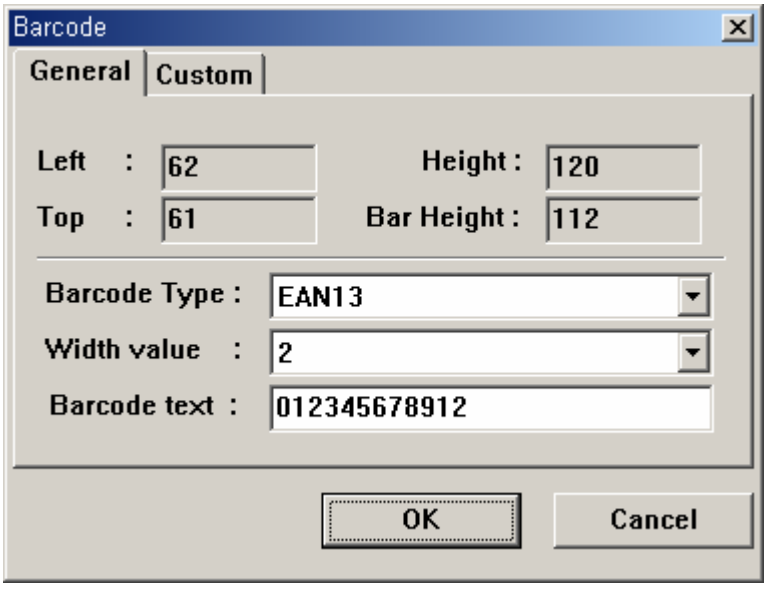
(Price Field Dialog, Image 9-3)



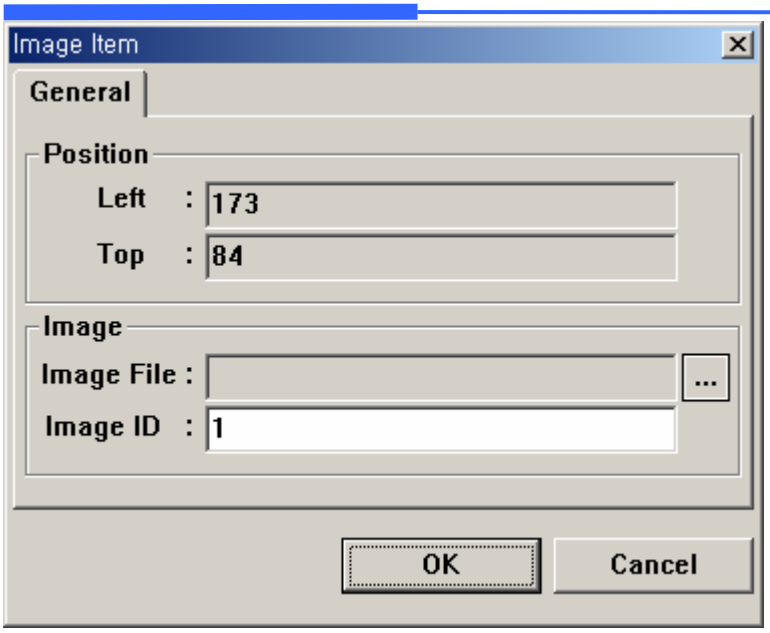
(Weight/Quantity Field Dialog, Image 9-4)



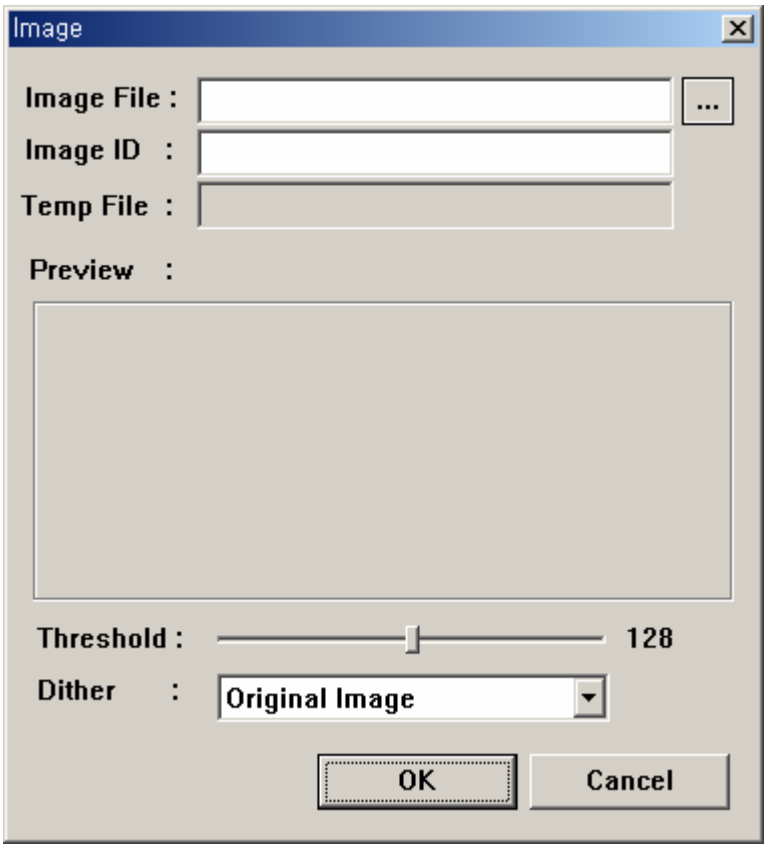
(Date Field Dialog, Image 9-5)



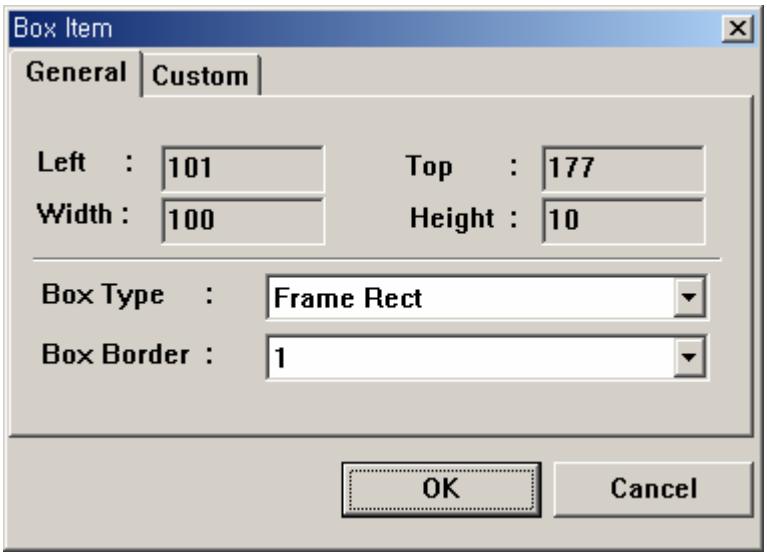
(Barcode Dialog, Image 9-6)



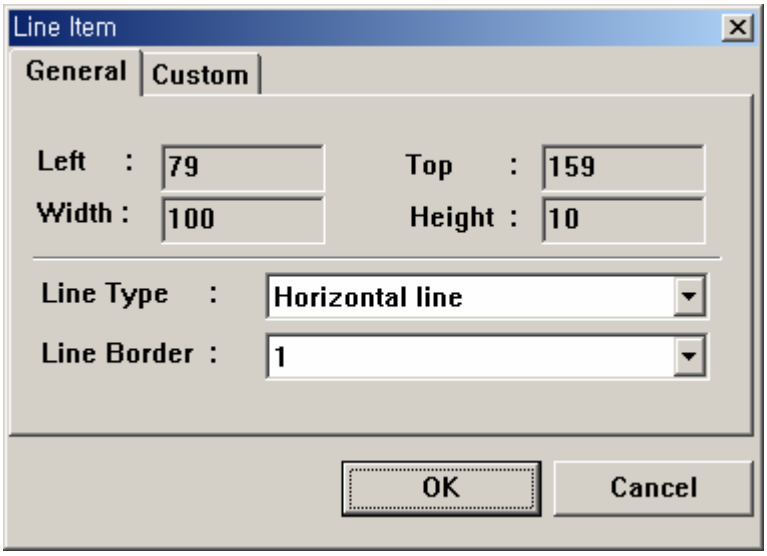
(Image Dialog, Iamge 9-7)



(Image Browser Dialog, Iamge 9-8_



(Box Dialog, Image 9-9)



(Line Dialog, Image 9-10)

9.4.2. Attribute Table

Attribute table of each items

(Barcode type, table 9-1)

No	Type	Explaining
1	EAN-13	13digit
2	EAN13A5	13digit + 5digit
3	EAN-8	8 digit
4	I20F5	2~24 digit
5	UPCA	12 digit
6	UPC-13	13 digit

7	CODE39	Alphanumeric character, Format 'T', prints out the name of PLU.
8	CODE93	
9	CODE128	
10	CODABAR	

(Barcode Property Table, Table 9-2)

No	Attribution name	Explanation	property	status
1	Field type	distinguish code	-	not in use
2	NumberData	sample number data which shown on screen	-	Different according to the barcode type
3	Left	price of left item location	0~480	Different according to the label size
4	Top	price of top item location	0~	
5	Rotation	rotation option	0~3	
6	Opaque	transparent option	-	not in use
7	Barcode Type	select barcode type option	0~28	
8	FullHeight	total height of barcode plus word	0~960	Different according to the label size
9	BarHeight	height of barcode	0~960	
10	CharHeight	height of word	0~960	
11	HRIPosition	word location	0~255	
12	HRIPrint	word print option	0~1	
13	HRICheck	checked barcode number word print option	0~1	
14	HRIStartStop	view start and top word option	0~1	
15	MagY	narcode width option	0~19 : 0~4 20~28: 1~11	
16	BarGuard	barcode guard print option	0~1	
17	BearerBarWidth	barcode safety line option	0~1	
18	UseOcr	Ocr font use option	0~1	
19	CheckType	check sum type optoin	0~6	
20	MagnitudeX	horizontal word size	-	different

21	MagnitudeY	vertical word size	-	according to the bar type
22	InterSpacing	adjust inter spacing	0~10	
23	LineSpacing	ladjust line spacing	0~10	
24	Justtification	line up words to horizontal	0~2	
25	SingleFontID	1byte font (English font ect)select	-	different according to the font file
26	DoubleFontID	2byte font (Korean font ect)select	-	
27	FiexedWidth	use fixed width word	0~1	
28	MirrorX	word line direction optoin	0~1	
29	AutoShrink	auto shrink to word print property size	0~1	
30	Vertical	line up word in vertical	0~1	
31	CharRotation	word rotation option	0~3	

(String Property Table, Table 9-3)

No	Name	Explanation	property	status
1	FieldType	field division code	0~250	
2	Text	field example text	254자까지	text line
3	Left	price of left item location	0~480	different according to label size
4	Top	price of yop item location	0~960	
5	Width	item width	0~480	
6	Height	item height	0~640	
7	Rotation	rotation option	0~3	
8	Opaque	transparent option	0~1	
9	WordWrap	last word unit coloum option	0~1	
10	NoType	decide to use font option	0~1	
11	Italic	font italic option	0~1	
12	UnderLine	font underline option	0~1	
13	LineThrough	font line thrugh option	0~1	
14	Shadow	shadow option	0~1	
15	Bold	font bold option	0~1	
16	Reverse	reveres color	0~1	
17	Dline	draw double line	0~1	
18	Outline	font outline option	0~1	
19	FontTable	select font option	0~1	
20	MagnitudeX	magnify horizontal option	0~5	

21	MagnitudeY	magnify vertical option	0~5	
22	InterSpacing	input inter spacing option	0~10	
23	LineSpacing	input line spacing option	0~10	
24	Justification	set line to horizontal axis	0~2	
25	SingleFontID	1byte font select option	3~6	
26	DoubleFontID	2byte font select option	3~5	
27	FixedWidth	use fixed width text	0~1	
28	MirrorX	text line direction option	0~1	
29	AutoShrink	auto shrink to print property size	0~1	
30	Vertical	set liine to vertical axis	0~1	
31	CharRotation	text rotation option	0~3	

(Box / Line Property Table, Table 9-4)

No	Name	Explanation	property	status
1	Left	price of left item location	0~480	different according to label size
2	Top	price of yop item location	0~960	
3	Opaque	transparent option	0~1	
4	Type	box, line shape type	0~3	
5	Color	select color option	0~1	
6	Width	item width	0~480	different according to label size
7	Height	item height	0~960	
8	Border	line size	1~8	

9.4.3. Field list

Field table of each item

(General Field List, table 9-5)

No	List	code	Default
0	STATICSTRING	0	STATIC
1	Department Name	1	Bakery
2	Department Number	115	999
3	Group Number	9	999
4	PLU Number	2	999999
5	PLU Name(1,2,3 ALL)	10	French Bread
6	PLU Name1	29	French Bread
7	PLU Name2	30	With Popies
8	PLU Name3	31	Baked Fresh In-Store Daily
9	Item Code	11	99
22	Prefix Code	3	99
23	Unit Weight	5	1kg
24	Tax Rate	8	99.99
27	Pieces(by-PCS)	14	99
28	Quantity Symbol	15	pcs
35	Bonus Point	50	999
36	Origin	55	KOREA
37	Ingredient	25	Ingredient : Water, Enriched Flor (..
38	Sales Message	90	This is a sales message.
41	Percent Tare	24	99.99
42	Percent Tare Limit	23	99.99
44	Label Serial Number	135	9999
45	Store Name	105	CAS Shop
46	Store Telephone	138	031-820-1100
47	Store Text	139	Best shop
48	Clerk Number	128	99
49	Clerk Name	106	Mark L
50	Customer Name	107	Micael
51	Customer Number	130	99
52	Scale Number	137	99
53	Day Of Week(Packed On)	117	MON

54	Currency Rate	119	1 $ = 0.785
57	(T)Traceability No	35	99
58	(T)Born in Country	36	999
59	(T)Bred in Country	37	999
60	(T)Slaughter House	38	99
61	(T)Slaughter Country	39	999
62	(T)Cutting Hall	40	99
63	(T)Cutting Country	41	999
64	(T)Reference	42	99
65	(T)Born in Country Number	43	999
66	(T)Bred in Country Number	44	999
67	(T)Slaughter House Number	45	99
68	(T)Cutting Hall Number	46	99
69	(N)Serving Size	140	1 Cup
70	(N)Servings Per	141	9
71	(N)Calories	142	999
72	(N)Calories From Fat	143	999
73	(N)Total Fat	144	999
74	(N)Saturated Fat	145	999
75	(N)Cholesterol	146	999
76	(N)Sodium	147	999
77	(N)Total Carbohydrates	148	999
78	(N)Dietary Fibers	149	999
79	(N)Sugars	150	999
80	(N)Protein	151	999
81	(N)Vitamin A	152	999
82	(N)Calcium	153	999
83	(N)Vitamin C	154	999
84	(N)Iron	155	999
85	(N)Total Fat DV	156	999
86	(N)Saturated Fat DV	157	999
87	(N)Cholesterol DV	158	999
88	(N)Sodium DV	159	999
89	(N)Total Carbohydrates DV	160	999
90	(N)Dietary Fibers DV	161	999
91	(N)Protein DV	162	999
92	(C)Total Price	170	TOTAL PRICE $

93	(C)Unit Price	171	UNIT PRICE $
94	(C)Weight	172	WEIGHT
95	(C)Tare	173	TARE
96	(C)Saved Price	174	SAVED PRICE
97	(C)Regular Price	175	REGULAR PRICE
98	(C)Tax Price	176	TAX PRICE
99	(C)Packed On Date	177	PACKED ON DATE
100	(C)Sell By Date	178	SELL BY DATE
101	(C)Cook By Date	179	COOK BY DATE
102	(C)Produced Date	180	PRODUCED DATE
103	(C)Packed On Time	181	PACKED ON TIME
104	(C)Sell By Time	182	SELL BY TIME
105	(C)Quantity	183	QUANTITY
106	(C)Reference	184	REFERENCE
107	(C)Born In	185	BORN IN
108	(C)Bred In	186	BRED IN
109	(C)Slaghtered In	187	SLAGHTERED IN
110	(C)Cut In	188	CUT IN
111	(C)Net Weight	189	NET WEIGHT
112	(C)Gross Weight	193	GROSS WEIGHT
113	(C)Percent Tare	194	% TARE
114	(C)Percent Tare Limit	195	% TARE LIMIT
115	(C)Total Count	190	TOTAL COUNT
116	(C)Payment Price	191	PAYMENT PRICE
117	(C)Change Price	192	CHANGE PRICE
118	(C)Total Price for Total Label	196	TOTAL PRICE $
119	(C)Total Tax for Total Label	197	TOTAL TAX
120	(C)Second Currency Total Price	198	TOTAL PRICE
121	(C)Second Currency Unit Price	199	UNIT PRICE
122	(C)Second Currency Total Price for Total Label	200	TOTAL PRICE
123	(C)Void Count for Table Label	169	VOID COUNT
124	(TOTAL)Total Count	202	9999
126	(TOTAL)Void Count	204	9999
137	Barcode	240	1234567890123
138	Image	250	Image

(Date Field List, table 9-6)

No	list	code	Default
29	Sell By Date	16	2004-10-13
30	Sell By Time	17	13:30:39
31	Packed On Date	18	2004-10-13
32	Packed On Time	19	13:30:39
33	Produced Date	20	2004-10-13
34	Cook By Date	22	2004-10-13
133	(TOTAL)Current Date	103	2004-10-13
134	(TOTAL)Current Time	104	13:30:39

(Price field list, table 9-7)

No	list	code	default
16	Unit Price	6	999999
17	Discount Unit Price	113	999999
18	Discount Unit Price(Mark Down)	109	999999
19	Total Price	102	9999999
20	Discount Total Price	114	9999999
21	Discount Total Price(Mark Down)	110	9999999
25	Tax Price	111	9999999
43	Discount Saved Price	131	9999999
55	Second Currency Total Price	118	9999999
55	Second Currency Total Price	118	9999999
56	Second Currency Unit Price	120	999999
56	Second Currency Unit Price	120	999999
123	(TOTAL)Total Price	201	9999999
123	(TOTAL)Total Price	201	9999999
125	(TOTAL)Void Price	203	9999999
125	(TOTAL)Void Price	203	9999999
127	(TOTAL)Included Tax Amount	205	9999999
128	(TOTAL)Excluded Tax Amount	206	9999999
129	(TOTAL)Total Price(Exclude Tax)	207	9999999
130	(TOTAL)Total Price(Include Tax)	211	9999999
131	(TOTAL)Payment Price	208	9999999
132	(TOTAL)Change Price	209	9999999

135	(TOTAL)Total Tax Amount	210	9999999
135	(TOTAL)Total Tax Amount	210	9999999
136	(TOTAL)Second Currency Total Price	212	9999999
136	(TOTAL)Second Currency Total Price	212	9999999

(Weight Field List, Table 9-8)

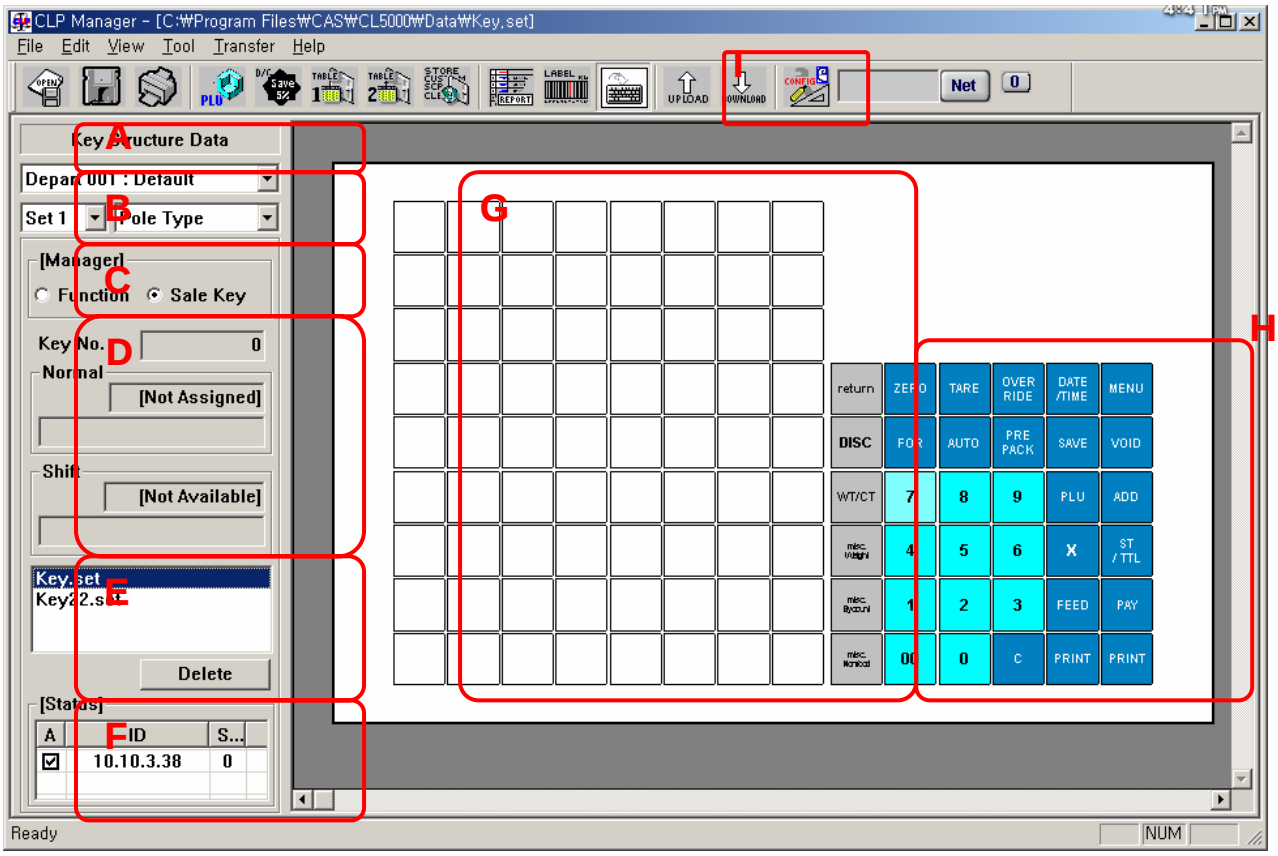
No	list	code	default
10	Weight	101	99999
11	Discount Weight	132	99999
12	Discount Weight(Mark Down)	108	99999
13	Quantity	112	99
14	Discount Quantity	133	99
15	Discount Quantity(Mark Down)	134	99
26	Tare Weight	13	99999
39	Reference Net Weight	100	99999
40	Reference Gross Weight	116	99999

10. Key pad editor

10.1. key pad editor outline

Key pad editor can edit and print key pad on scale to use easily. It is not only edit key pad on screen but, also makes each button to function you want

10.2. Key pad editor formation



keypad editor, Image 10-1

It is largely separated with two parts. One which shows the data information and the other is showing shape of keypad. More details look for the <10.2.1. Name of each part and explanation on keypad

10.2.1. Name and explanation

<Keypad editor, Image 10-1> part A

It is basic information of keypad file. It can set when you make new keypad and can write simple explanation

<Keypad editor, Image 10-1> part B

It is Keypad type and sales part. It can differentiate whether keypad is pole shape or not. According to this sales part, PLU sales part in <keypad editor, Iamge 10-2> can decide

<Keypad editor, Image 10-1> part C

Key functions. It dicides whether keys edit on part G will use in function key or PLU call out key

<Keypad editor, Image 10-1> part D

It defines definition of G. It shows PLU allocated to key, index of key and text which will print on that location

<Keypad editor, Image 10-1> part E

It is keypad file list. It shows saved key list on data under directory in program. Doubleclick to open file on list

<Keypad editor, Image 10-1> part F

It shows IP list and status when using TCP/IP network

[Reference: If you set serial communication on communicatoin setting in Config, this list won't show up]

<Keypad editor, Image 10-1> part F

This part is to edit on keypad editor module. It will print as same as on screen and allocated PLU call out key or funtion key to every key

<Keypad editor, Image 10-1> part H

Funtion keys which already set on scale. It can't edit here

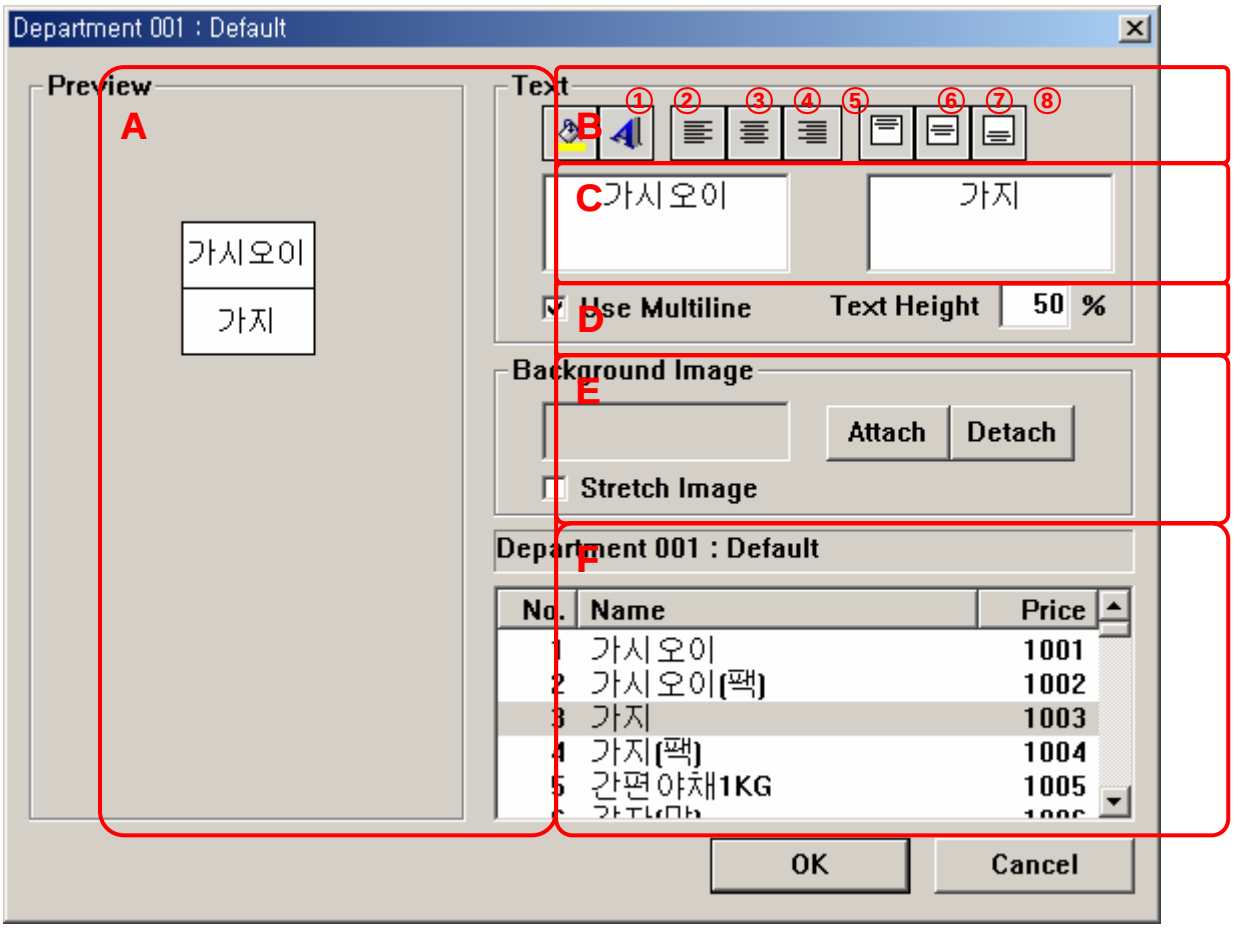
<Keypad editor, Image 10-1> part I

Upload –Use to bring up data from scale to PC

Download Download data from PC to scale

10.3. Usage of keypad editor

10.3.1. Edit print screen



edit keypad, Image 10-2

It shows keypad editor. You can see by doubleclick G when it is set "Sale key" on <keypad editor, Image 10-1> part C

Each funtion is down below

<keypad editor, Image 10-2> part A

It is preview screen. It shows how things will look like set on right pannel C & D

<keypad editor, Image 10-2> part B

It's toolbar for editor. It can edit font and each keys paragraph

A. ① It sets background color

B. ② It sets key's font

C. ③ It sets line to the left

D. ④ It sets line to the middle

E. ⑤ It sets line to the right

F. ⑥ It sets line to the top

G. ⑦ It sets line to the center

H. ⑧ It sets line to the bottom

<keypad editor, Image 10-2> part C

I. Edit key content. It can separate a Key to two circuit and albe to control ratio of each part

<keypad editor, Image 10-2> part D

J. It decides whether to separate a key to two circuit. Normal price is 50%

<keypad editor, Image 10-2> part E

K. It can put image on key background. It supports Bmp, jpg, png, gif files

L. Press Attach to select and put image

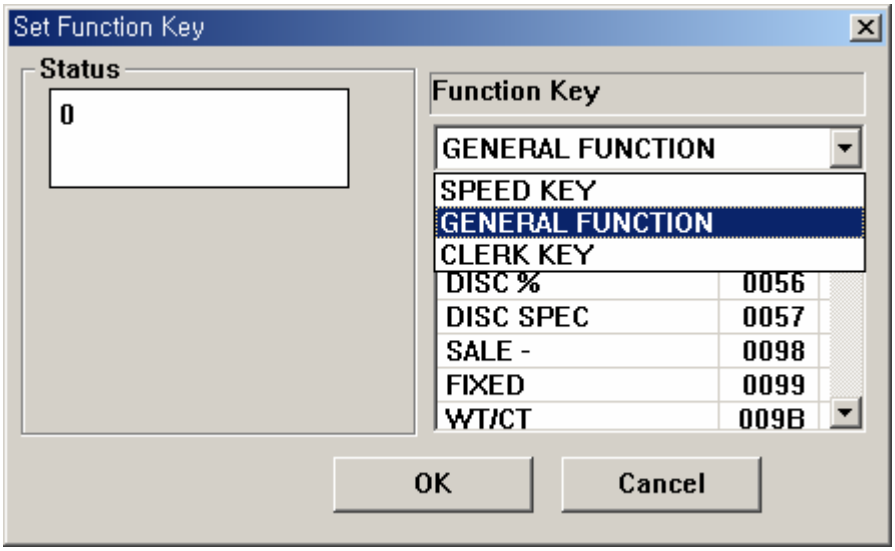
M. Press Detach to remove image file

N. Press Strech Image to auto resize the image size if image is not fit with the key size

<keypad editor, Image 10-2> part F

O. It is PLU lists which will allocate to key. Different PLU list will show according to parts. Doubleclick to input from the list

10.3.2. Edit function key



edit function key, Image 10-3

It is keypad edit screen. You can see by doubleclick G when it is set "Function" on <keypad editor, Image 10-1> part. It can set defined function to key

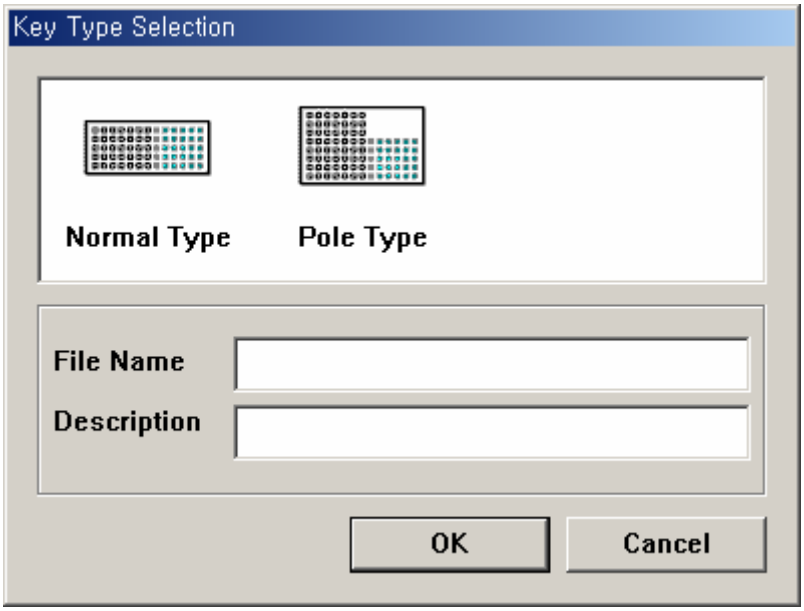
It has General Function and Clerk Key to choose and list right below will different according to it

10.3.3. Open file

When you turn on the keypad editor first time, you can see the last file used on job. If there is no used file, it creates new file. You can open another file by using <keypad edior, Image 10-1> part E

10.3.4. Make new file

If you want to mawe a new file, select File->New. You can see the same screen like <Make new file, Image 10-4>. Select whether keypad is Pole type or normal type. Input file name and contents indicated on <keypad editor, Image 10-1> part A to make a new file



Make new file, Image 10-4

10.3.5. Save data

Explains about saving edited or added data

A. Finish add or edit process

B. Click Save on file menu

[Reference: If leading data is not in place, it will not save the data. In this situation the caution message will appear. Check the data and retry]

C. When there is no caution message on screen, it saved the data

10.3.6. Delete file

You can delete file without going out to windows. Click Delete on <keypad editor, Image 10-1> part E to delete saved file

10.3.7. Upload data

Explains upload data from scale

[Reference:PC and scale need to connect in first place]

1. Upload instruction

A. Check scale is right

Check conditions like communication mode, speed in setting communication in Config

[Reference: More details look for the <11.2.4. Communication (Communication config)>]

B. Click icon on <Keypad editor, Image 10-1>part I to start. Dialog box and upload status will shown in right condition

[Reference: Only one must seleted when you using TPC/IP mode <Keypad editor, Image 10-1> at part F]

10.3.8. Download data

Explains download present screen data to the scale. This funtion will work when PC and scale is connected

1. How to download

F. Check scale is working right

G. Check all the conditions like mode, speed in Config Communication setting

[Reference: More details look for the <11.2.4. Communication (Communication config)>]

Click icon on <Keypad editor, Image 10-1> at part I to start download

When it works right, you can see the downloading dialog and status) [Reference: When you using the TCP/IP mode. You must select at least one on <Keypad editor, Image 10-1> at part D]

10.4. Config outline

This program is to let user to register or edit store and customer data

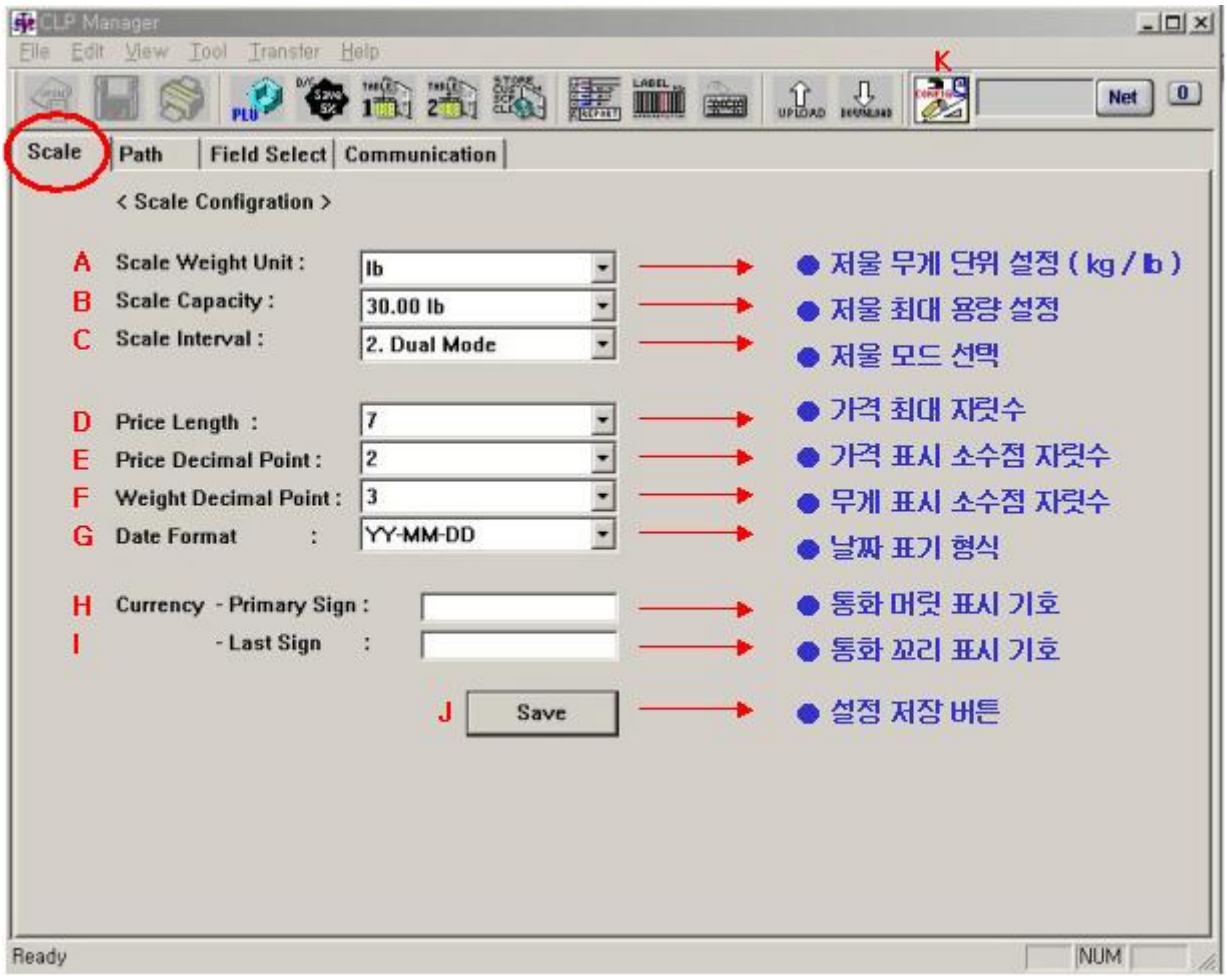
10.5. Config outline

Config formed with four tab heads. Scale, Path, field Select and Communication

10.5.1. Scale Configuration

It use to set basic configuration like capacity of scale or unit of weight

Basic form is like <Config Scale Tab, Image 11-1>



Config Scale Tab, Image 11-1

1. Scale Tab Explainatoin(refer Config Scale Tab, Image 11-1)
   A. Scale Weight Unit select the weight unit of the scale. Kg or lb
   B. Scale Capacity : select the capacity of the scale
      Kg – choose one on 6, 15, 30, 60
      Lb – choose one on 15, 30, 60
   C. Scale Interval : Select scale mode. 1. Single mode, 2. Dual mode
   D. Price Length : (choose one on 6,7,8,9) when you put data related to price, maximum value will decide according to this setting
      If Price Length is seven, the maximum value price is 9999999
   E. Price Decimal Point :It sets price decimal point. Choose one among 0,1,2,3)
      If price decimal point is two, the result comes out like 123.45
   F. Weight Decimal Point : It sets weight decimal point. Choose among 0,1,2,3
      If weight decimal point is three, the result comes out like 34.123
   G. Date Format : It decides order of year, month, date
      17th February, 2005 can indicate down below
      In case of YY-MM-DD: 05-02-17

In case of MM-DD-YY: 02-17-05

In case of DD-MM-YY: 17-02-05

H. Currency – Primary Sign : It shows currency mark at the front of the price

I. Currency – Last Sign : It shows currency mark at the back of the price

J. Save button : Click to save and apply the edited data

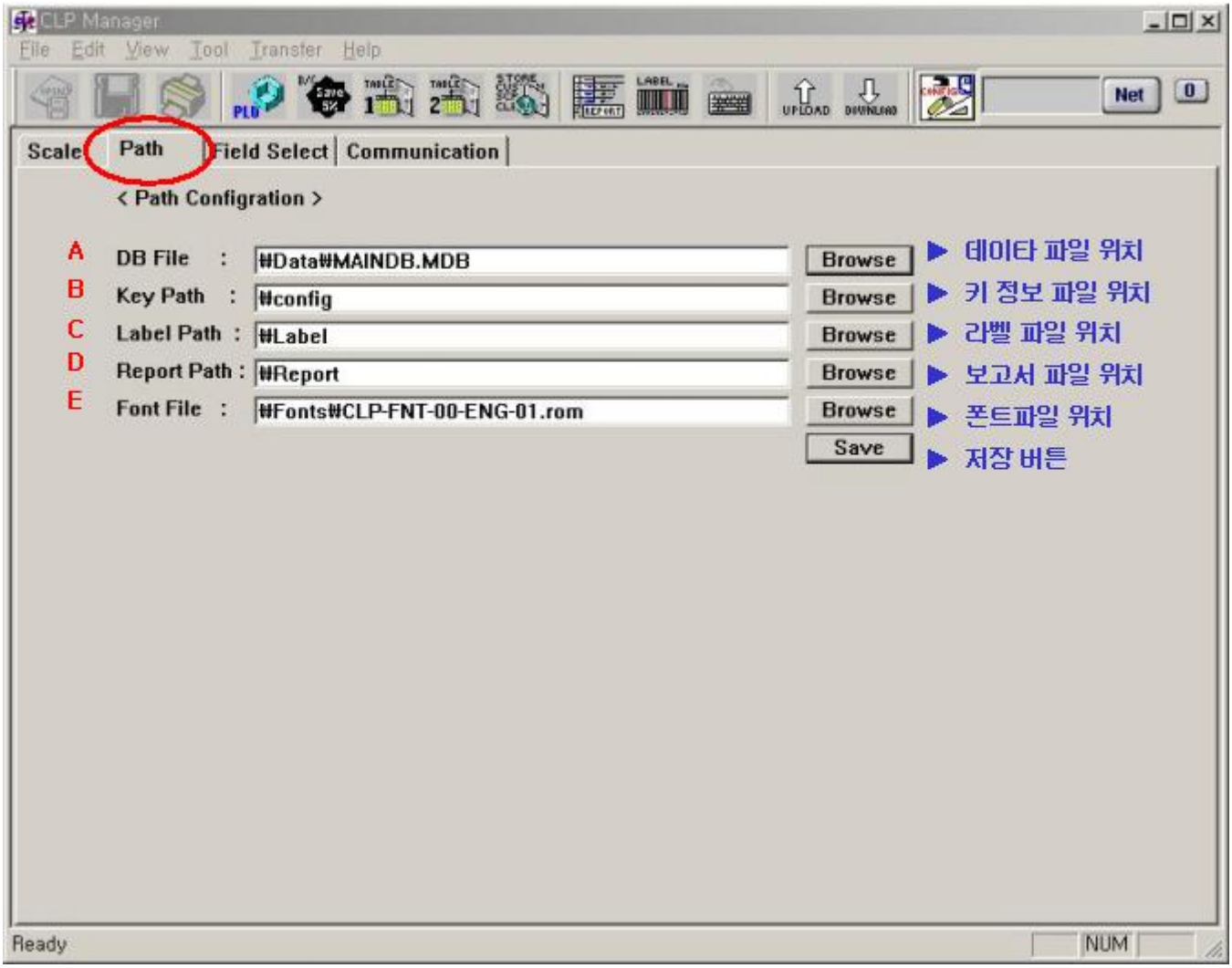
"Save Complete" message will appear when it works right

10.5.2. Set Data File Path

Path tab is use to appoint file location use on each program

When each program starts. It brings up file from set up in Path tab

Basic form of <Config Path Tab, Image 11-2> is like down below



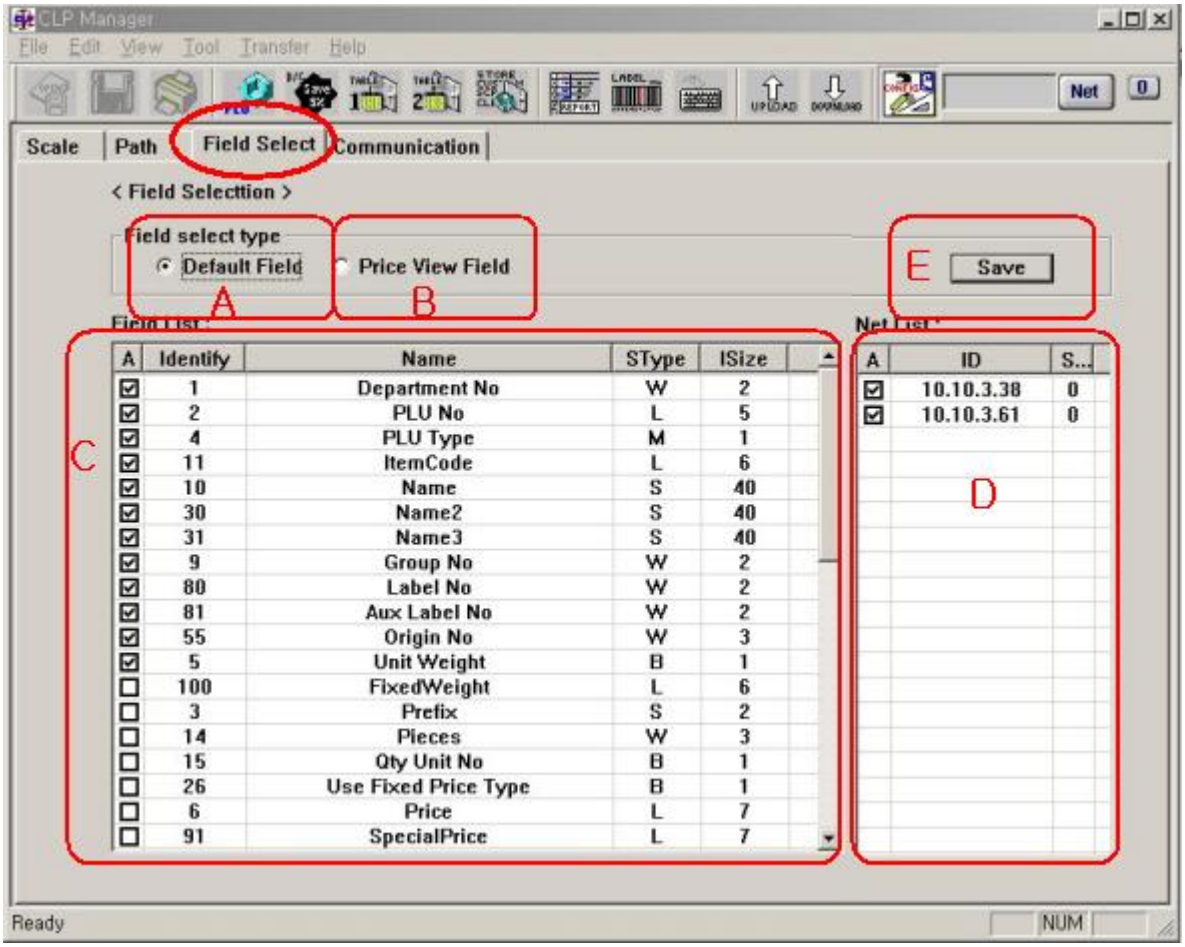
Config Path Tab, Image 11-2

1. Path Tab Explanation
   A. DB File : set up data file location
      This data file has the data use on each program. Register, edit, delete and start program process are using this file. Becareful to decide the file loacation
   B. Key Path : Sets key file folder on keypad program
      Key file is information of the key & key path is folder location of the key file
   C. Label Path : It sets label folder location which use on Label edit program
   D. Report Path : It sets Report folder location which use on Report program
   E. Font File : It sets Font folder location which use on Label Edit program
   F. Save 버튼 : Click to save and apply the edited data
      "Save Complete" message will appear when it works right

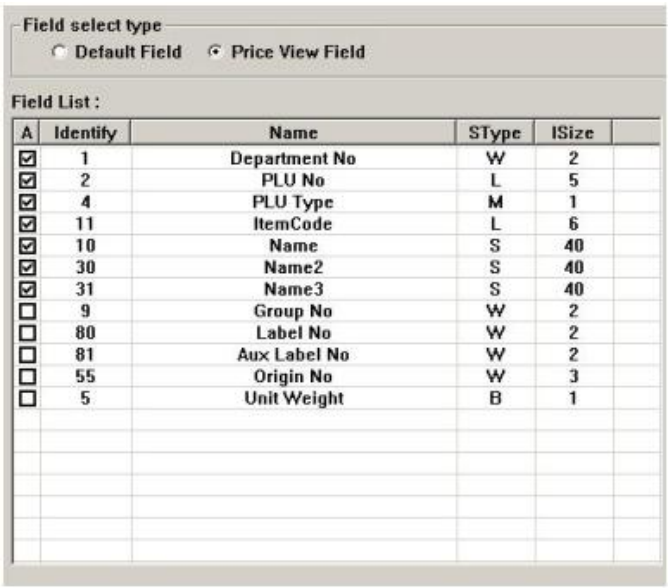
10.5.3. Field Select (PLU field Config)

Field Select Tab uses to set up Field on PLU Editor Program

It forms like <Default Field, Image 11-3>, <Price view field, Image 11-4>



Default Field, Image 11-3



Price view field, Image 11-4

2. Field Select Tab Explanation)(refer Default Field, Image 11-3

A. Default Field : Select to see all the field information

B. Price View Field : List up selected field on <Default Field>

C. Field List : It shows field list

D. NetList :Scale address list window when using TCP/IP communication

E. Save button : To save and apply the edited contents

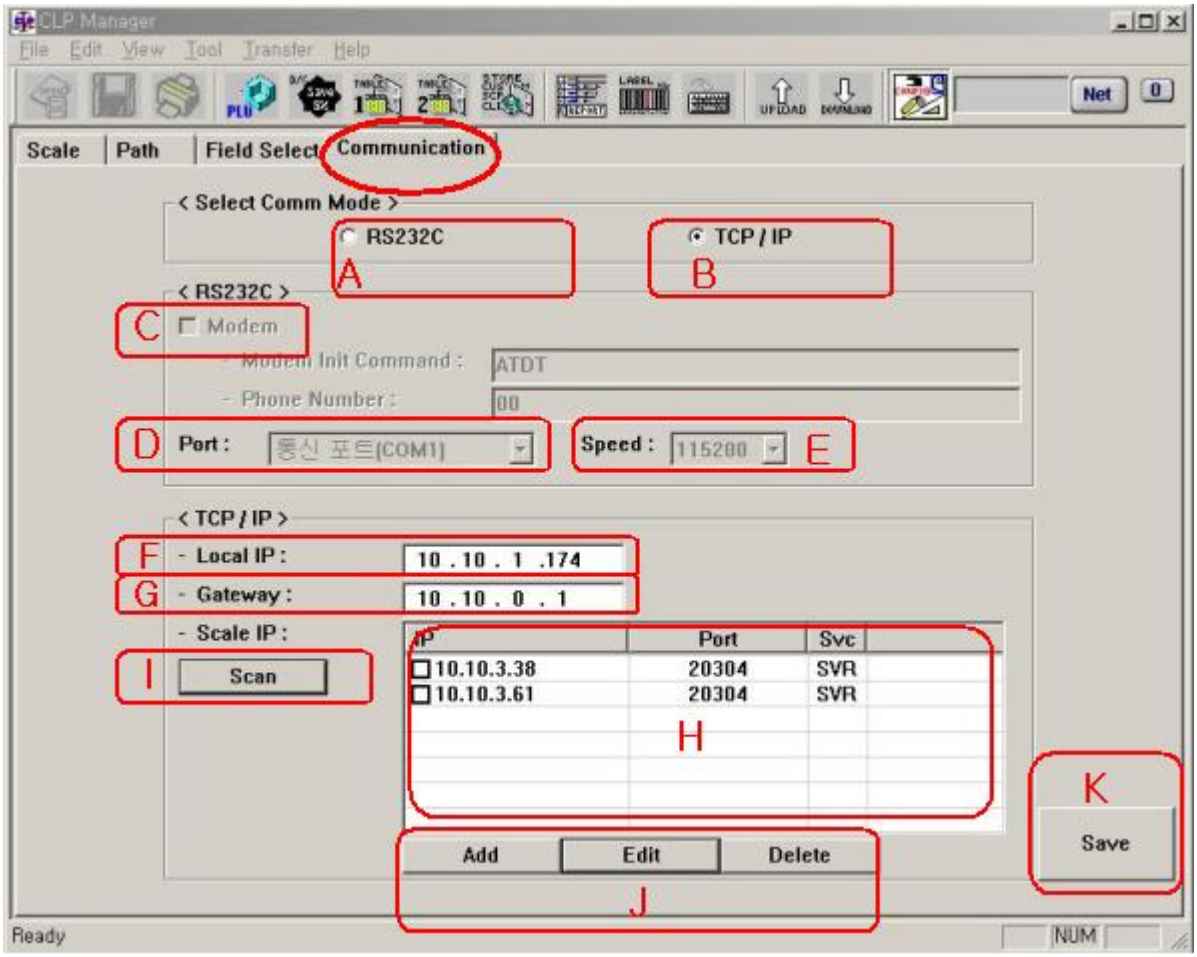
F. Upload : It can bring up scale field information when <A.Default Field>is checked

G. Download : It can download scale field information when <A.Default Field>is checked

10.5.4. Communication Config

Communication Tab is use to set up basic configurations which need to communicate with the scale

It formed like Config Communication Tab, Image 11-5



Config Communication Tab, Image 11-5

1. (Communication Explanation
   A. RS232C : It use to upload or download data using RS232C communication
      By cheaking, <RS232C> group will active and able to input data
   B. TCP/IP : It use to upload or download data using TCP/IP communication
      By cheaking, <TCP/IP> group will active and able to input data
   C. Modem : Cheak this content when you want to use modem
      This modem content will active and able to input data when RS232C communication is cheaked
   D. Port : It use to set up comport for RS232C
   E. Speed :It use to set up communication speed for RS232C
   F. Local IP : It shows IP of working computer
   G. Gateway : It use to input gaetway to working computer
   H. Scale List : It shows address list of scale need to communicate with

I. Scan button :Find able to TCP/IP communication scale

J. Add, Edit, Delete button : Add, edit, delete scale address list

K. Save button :It use to save set up contents

If communication mode is changed, "Must be restart" message will appear and you must restart the program

10.6. Config instruction

Explains about edit Config control

10.6.1. Start Config

1. Click CL5000Manager to start
2. Click K icon on <Config Scale Tab, Image 11-1> to start

   It shows Tab item last job saved as default

10.6.2. Add & Edit

Select data or input new price to edit on each Tab item

10.6.3. Save data

Explains about saving added or edited contents

1. Finish add or edit data process
2. Press <Save>button on each Tab item to save settings

10.6.4. Upload Data

Explains upload data from scale

PC and scale need to connect in first place

Upload will not support on Scale, Path, Communication Tab, but supports on Field Select Tab

1. Upload instruction
   A. Check scale is right
2. Check conditions like communication mode, speed in setting communication in Config

   [Reference: More details look for the <11.2.4. Communication (Communication config)>]

   A. Click upload icon to start uploading

   B. When it works right, upload dialog box and status will appear

   [Reference: Only one must seleted when you using TPC/IP mode <Default Field, Image 11-3> at part D]

10.6.5. Download data

Explains download present screen data to the scale. This funtion will work when PC and scale is connected

It will not support on Scale, Path, Communication Tab, but supports on Field Select Tab

How to download

A. Check scale is working right

2. Check conditions like communication mode, speed in setting communication in Config

[Reference: More details look for the <11.2.4. Communication (Communication config)>]

A. Check the contents you want to download on <Default Field, Image 11-3> at part C

B. Click download icon to start

C. When it works right, you can see the downloading dialog and status

[Reference: When you using the TCP/IP mode. You must select at least one on <Default Field, Image 11-3> at part D]

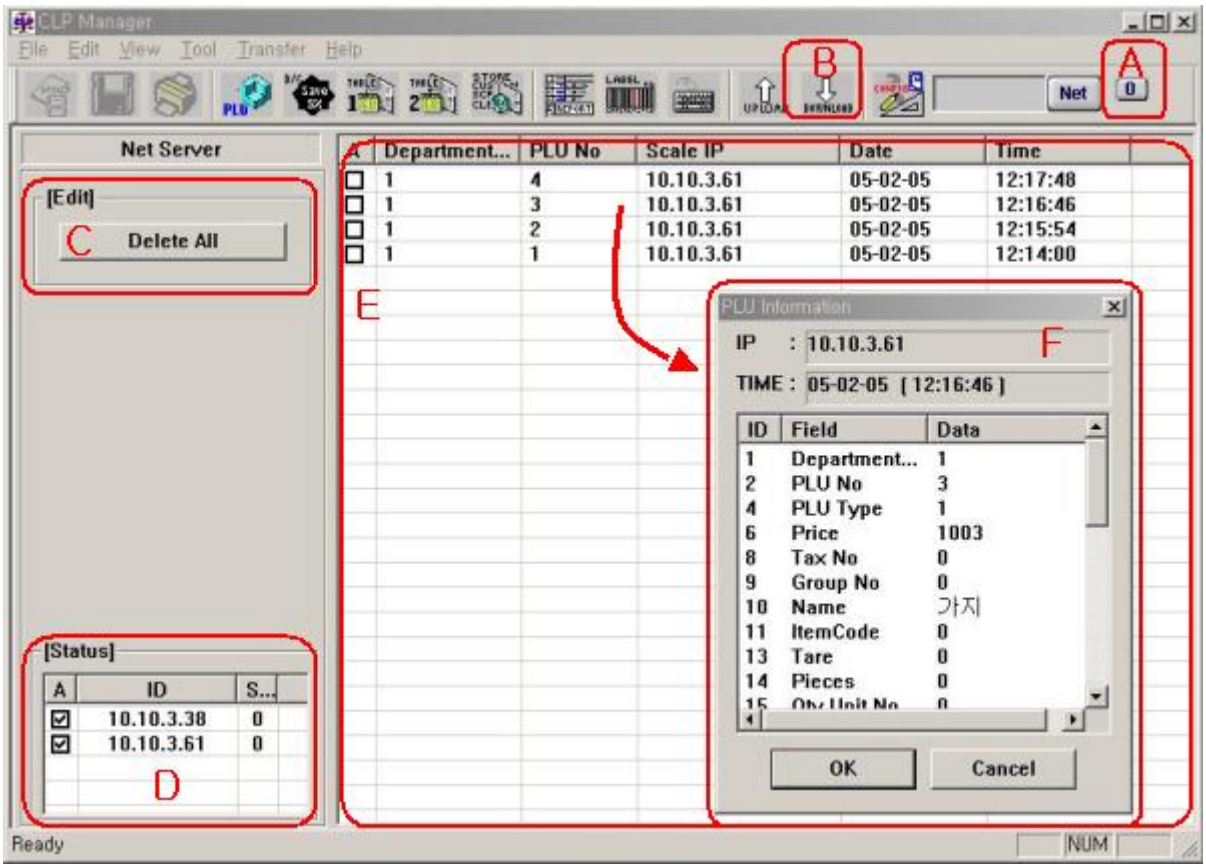
11. Net Server

11.1. Net Server Outline

Net Server program provides to let other scales on the network to have edited PLU data when you edit right on the scale. It sends data to all sclaes on the Network List

11.2. Net Server Formation

Net Server forms like <Net Server, Image 12-1>



Net Server, Image 12-1

11.2.1. Name and Explanation

By clicking this button to confirm PLU list information and start Net Server program [Reference: This button will not show in screen when you set serial communication at Communication Setting on Config]

1. <Net Server, Image 12-1> part B
   It use to let user download directly to the scale
2. <Net Server, Image 12-1> part C
   It use to delete received PLU information list
3. <Net Server, Image 12-1> part D
   Status –It shows registered IP list and status when you using TCP/IP network
4. < **Error! Reference source not found.** >의 E : It is list window which simply shows

received PLU information

A. Department No : Department number

A. PLU No : PLU number

B. Scale IP : Scale IP which had edited PLU and call out Server scale

C. Date : PLU edited date or date data received

D. Time : PLU edited time or time data received

5. <Net Server, Image 12-1> part F

Look for the detail information about PLU, doubleclick the data you want to see in <Net Server, Image 12-1> part E

A. IP : Scale address which send PLU

B. Time : Received PLU time and date

C. Field 정보 : Field Information

ID – Field Identification.

Field – Field name

Data – Field data

11.3. Net Server Instruction

Explains about edit Net Server process control

11.3.1. Start Net Server

1. Click CL5000Manager to start the program
2. Click A button on <Net Server, Image 12-1>to start

If there is existing received data it shows that list

11.3.2. Add, edit & save data

Explains about add and edit data

1. Adding process
   A. Data adds when there is call out in client scale and PLU data saves automatically
   B. Updated data will add at the top of the <Net Server, Image 12-1> part E
2. Edit process
   A. In Net Server you can not edit PLU data, If you want to edit use <3. PLU eidtor> program
3. saving data
   A. PLU data saves automatically when it received from client scale

11.3.3. Delete Data

Explains about deleting data function

A. Click Delete All at <Net Server, Image 12-1> part C

B. All contents will delete and screen turns new

[Reference: It can not delete some parts only]

11.3.4. Upload data

It don’t support data upload function

Use <3. PLU eidtor> program if you want to upload data

11.3.5. Download data

Explains about how to let down PLU data to the scale

PC and sclae need to connected in the first place

1. Download instruction
   A. Check wether scale works right
   B. Select the content you want to download at <Net Server, Image 12-1> part E
   C. Select the scale you want to download at <Net Server, Image 12-1> part D
   D. Start downloading by click icon B on <Net Server, Image 12-1>
   E. download dialog and download status will appear when it works right

11.4. Net Server assist information

Explains cautions when you perform Net Server function

11.4.1. Precautions

1. Once you start the CL5000Manager, Server funtoin will work on background of the program
2. If you call out Server during upload or download in other program, executes Broadcasting funtion when it is finish
3. It don’t support upload funtion
   When you start downloading, PLU data which shown on <Net Server, Image 12-1> part F is going to download the data. PLU data which shown on <Net Server, Image 12-1> part E is not
4. If communication setting is set to RS232, you can not see the A button at <Net Server, Image 12-1>. You can not run the Net Server prgram