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CLabel-IV

Part I: About CLabel-IV

1: Introduction

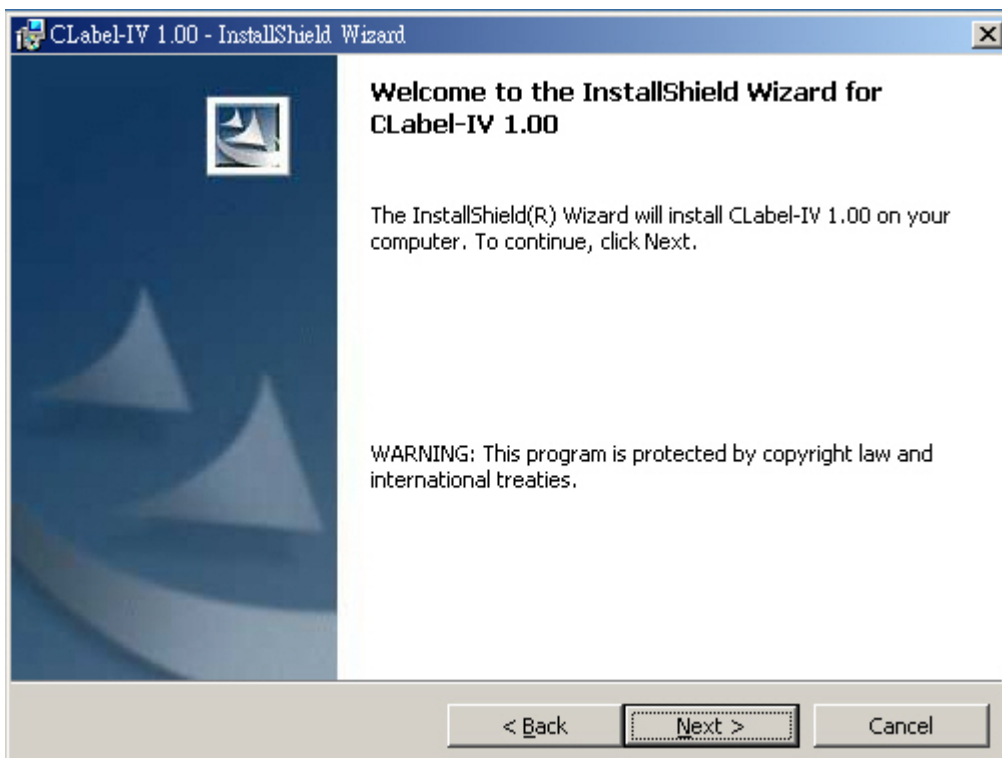
An applied program for Windows 95/98/NT/2000/ME/XP/Vista, CLabel-IV is designed for Falcon 4D Plus / 4 Plus / 6 Plus / DT series printers.

CLabel-IV helps users not only design labels, but also change the label data into an executive text file with optional extension (default .CMD extension). The executive file can be run by DOS commands such as COPY, TYPE, and PRINT etc.

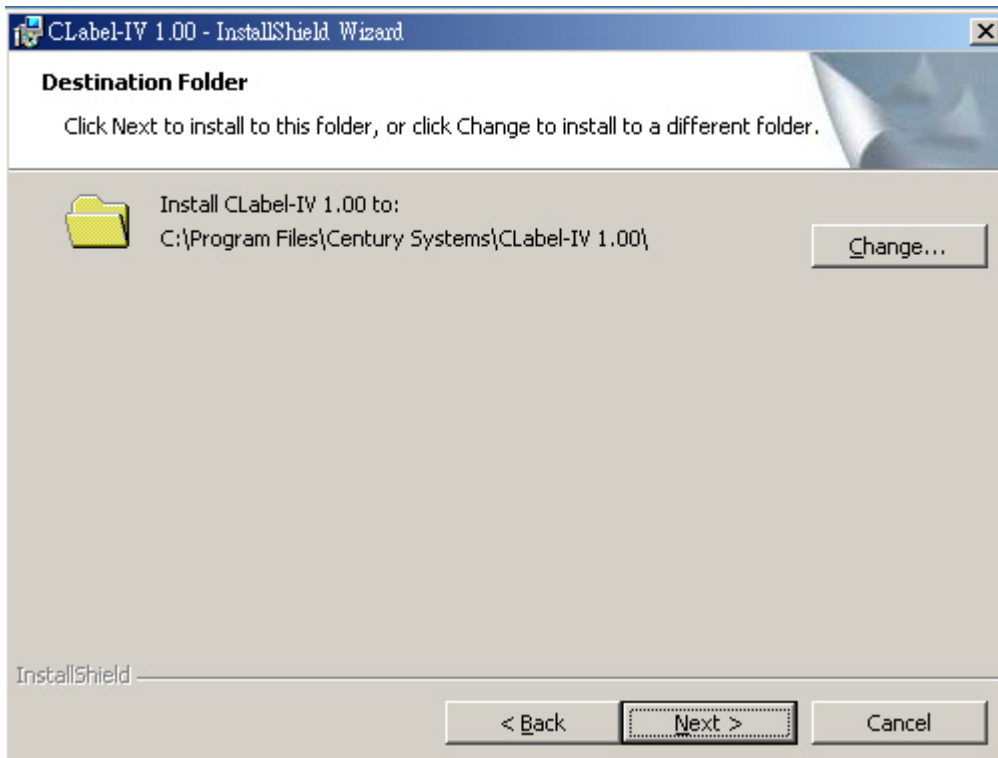
To master CLabel-IV, an executive file producer, it is strongly recommended that programmers be familiar with the Programming Language in advance.

2: Installation

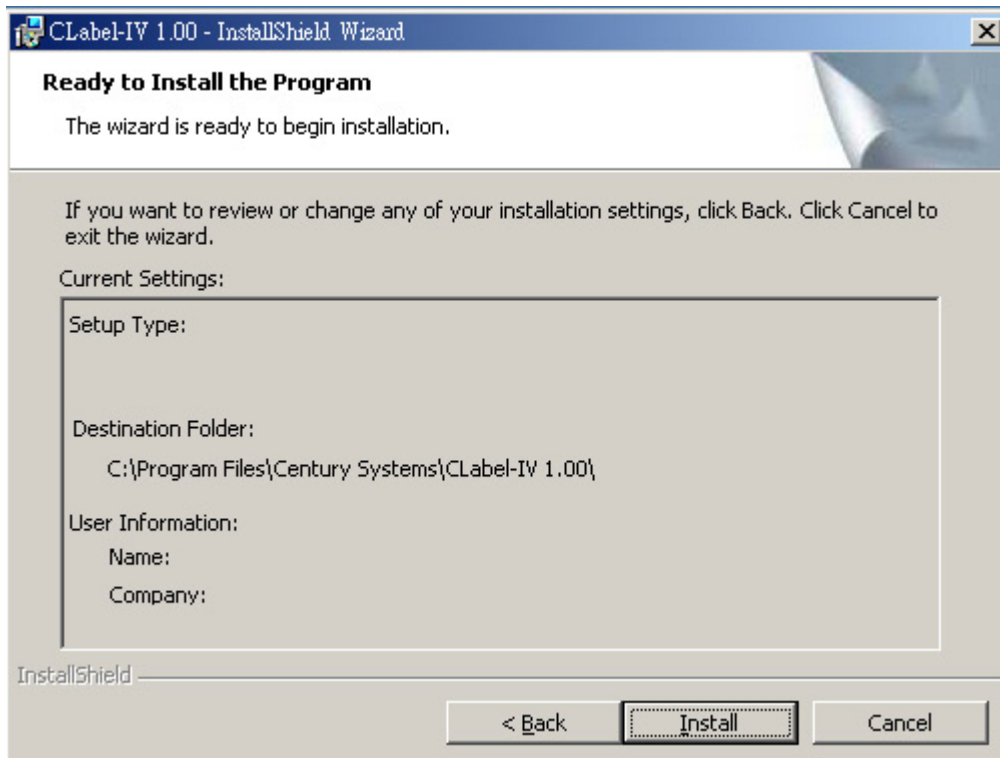
1. Under Windows 95/98/NT/2000/ME/XP/Vista, simply put your product CD into your computer's CD Drive and the Autorun.exe will start automatically. If the AutoPlay feature has been disabled on your computer and the installation does not work automatically, double click on the "My Computer" icon, then right click on the CD drive and choose Autorun.exe.
2. Click CLabel IV button from the CD menu to start the installation. The screen will display the WELCOME dialog box, please press "Next".



3. Select the directory that you would like to save for the CLabel-IV program and related files. You can create a new directory or choose one on your hard disk. If you use an established directory, specify the full path name of the directory. Type the name of the directory, or accept the suggested default path of C:\Program Files\Century Systems\CLabel IV 1.00\ then press "NEXT".



4. The next dialog box shows your current setting. Please check these items correctly and then click "NEXT".



5. CLabel-IV will copy all the necessary files from the CLabel-IV disks.
6. Once the CLabel-IV installation completed, the CLabel-IV icon will be displayed on desktop. Click the icon to start the program.



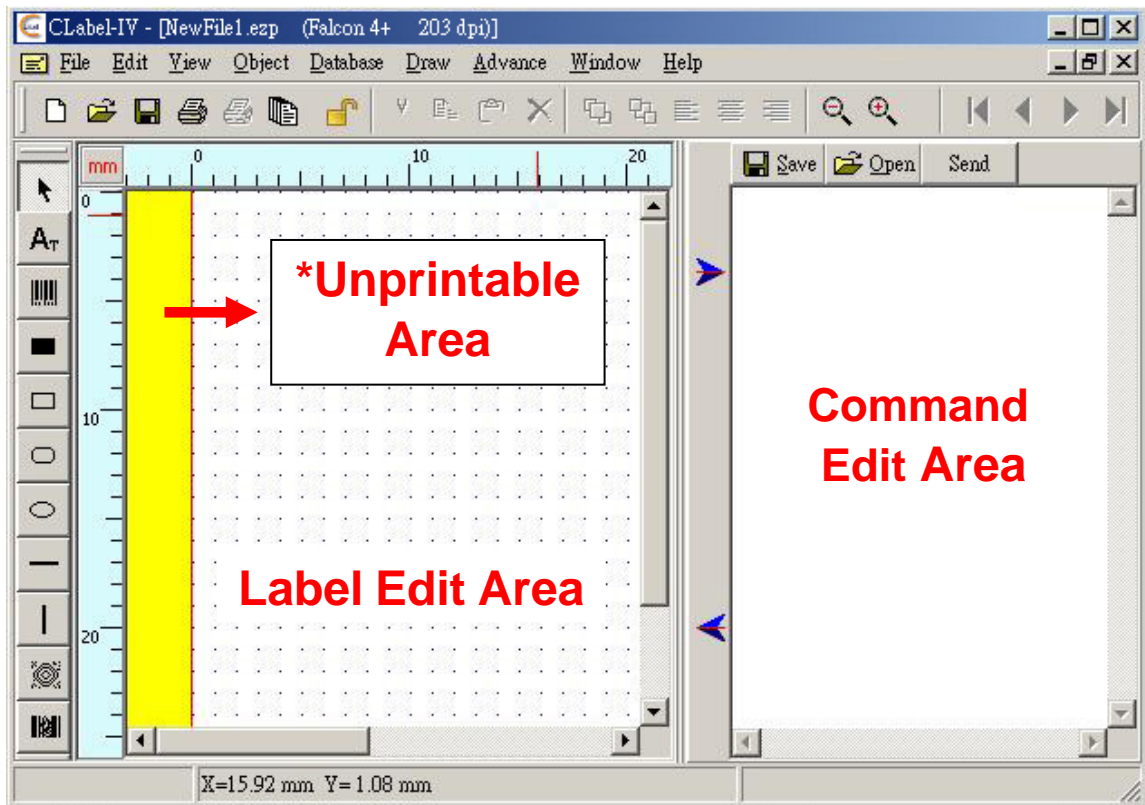
Part II: Starting on CLabel

3: Start CLabel-IV

Click Start, point to Programs, point to the CLabel-IV folder, and then click the CLabel-IV program.

4: Working Environment

When you open a new label, there are two working areas on the screen. The left-hand side of the screen is the Label Edit Area, and the right-hand side is the Command Edit Area.



























*Unprintable Area: Falcon 4 Plus / 6 Plus series printers have an unprintable area of 3mm on the label edit area.














5: CLabel Toolbars

Toolbars help you to use commands in CLabel-IV quickly. Items of toolbar are detailed below:

Toolbars

	Create a new label		Align screen left
	Open an existing label		Align screen center
	Save active document		Align screen right
	Print active label form		Zoom Out
	Print previous printed label		Zoom In
	Lock		First record
	Cut		Last record
	Copy		Previous record
	Paste		Next record
	Delete		Go To...
	Move to front		Re-query
	Move to back		Database View/Edit

Draw Tools

	Select an object		Insert MAXICODE
	Create a text with printer's font		Insert PDF417
	Insert Barcode		Insert Data Matrix Code
	Draw a not hollow rectangle		Insert QR Code
	Draw a square-corner rectangle		Insert a Picture
	Draw a round-corner rectangle		Create a text with window's font
	Draw an ellipse or circle		


Part III: Working with Labels

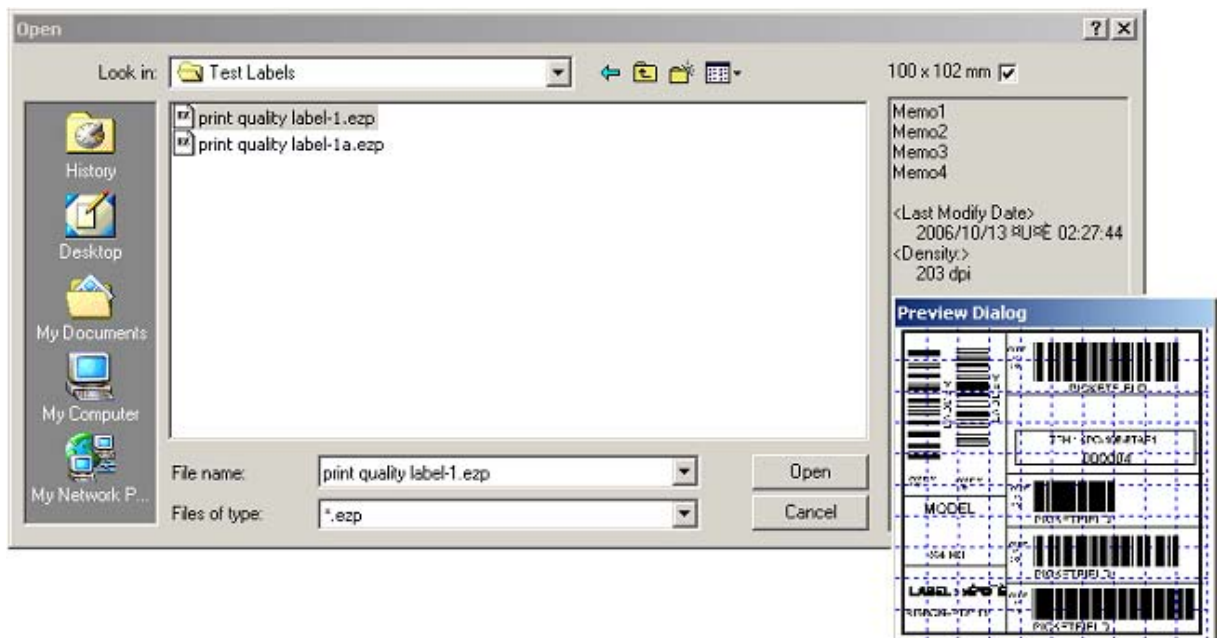
6: Opening, Creating and Saving Labels

Create a new label

On the File menu, click “New” or  on the toolbar to create a new label.

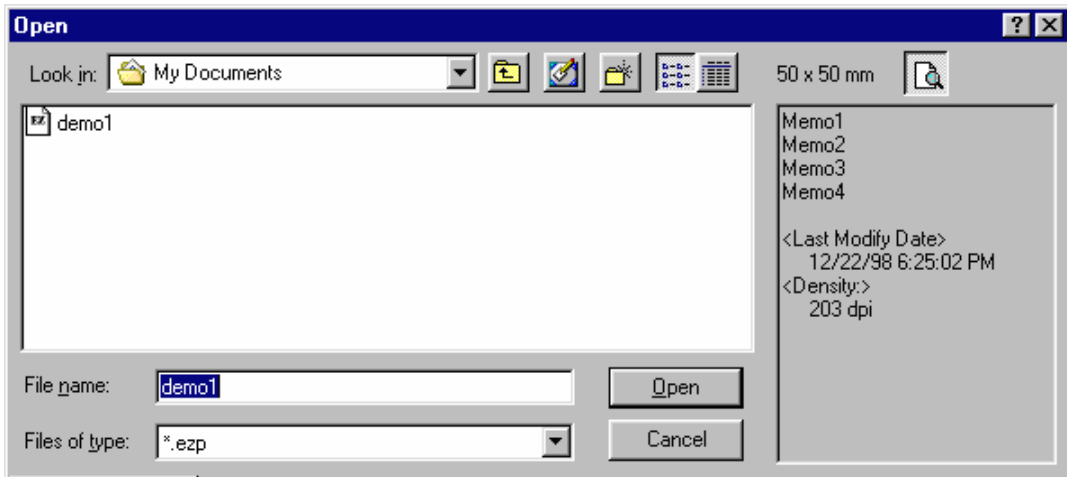
Save changes to a label

1. To save the new file, click the “File” menu, click “Save As”, and then type in a new file name.
2. To save the new file with the text type, click built-out , click “Save” button in the Command Edit Area, and then type in a new File name. The program will highlight and require downloading unknown graphics, window’s fonts, or other objects that were not created by printers.
- You can also save an existing label with a new file name by “Save As” and then typing a new name in File name.



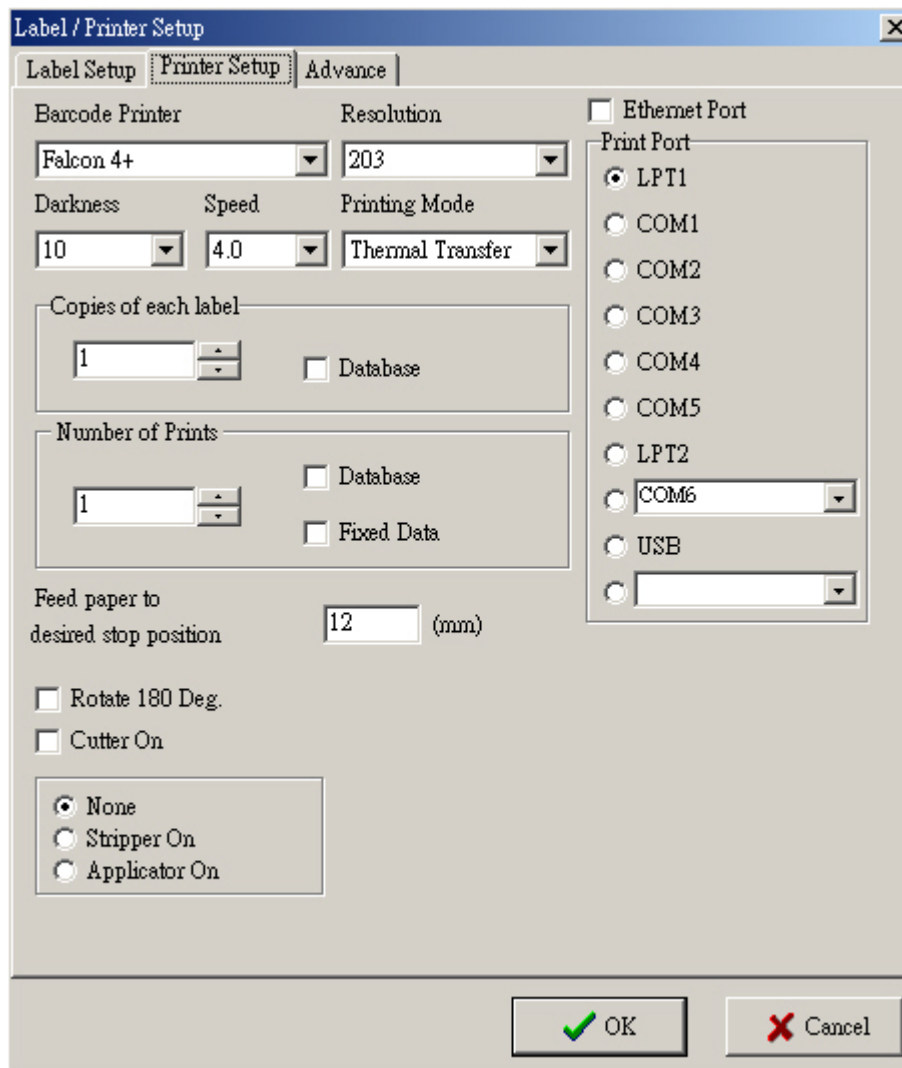
Opening a label

1. On the File menu, click “Open”.
2. In the open dialog, go to “Look in”, select the file you would like to open.
3. Click the label name, and then click “Open”.
4. Alternatively, double-click the folder that contains the label you want to open.



Setup printer

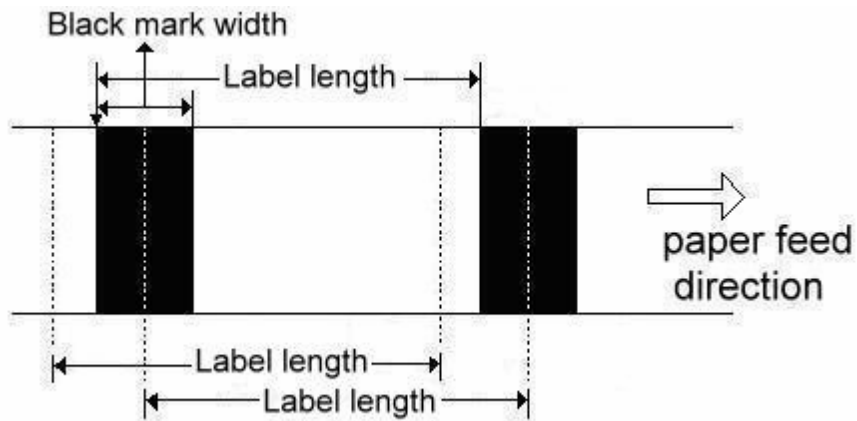
1. On the File menu, click "Printer Setup".
2. Select the model of barcode printer.
3. Change settings in the Printer Setup dialog box.



Label setup

1. On the File menu, click "Label Setup".
2. Change settings in paper type, paper dimensions and label layout.
3. Click "OK" to complete label settings.

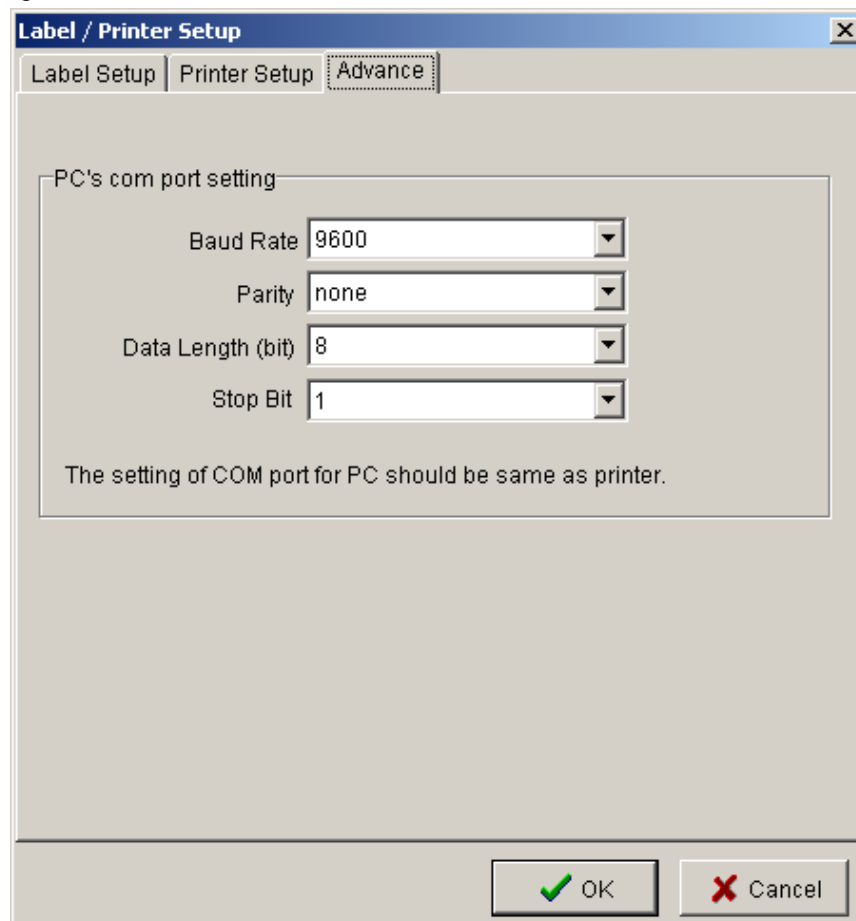
- Label paper: Check on paper with gap and set Gap Length.
- Plain paper: Check on Plain paper and set Feed paper length.
- Black mark paper: Check on Black mark label, and enter new values.
- Black mark width and Black line to top of form position.
- Horizontal: sets the number of columns of labels on a page.
- Vertical: sets the number of rows of labels on page.
- Horizontal gap: between the columns of labels.
- Vertical gap: between the rows of labels.
- Order: this method can collocate with serial number.



Setting the Advance

These are default setting for 9600 baud rate, parity none, data length 18 bit, stop bit 1. The advance setting is for the use of RS232 com port connection.

1. Click "Printer Setup" from the File menu.
2. Click the "Advance" table.
3. Click new setting.



7: Inserting Text

Insert a text with printer's font

1. Click **A**T.
2. On the Text Setup dialog box, select font type, size, and rotation angle, horizontal and vertical expansion you would like to create on the label.
3. Input text in the Data column. Alternative select from the Load button to open the existent text file.

Note.

- Internal Font: Printer's font.
- Asian Font: you can download the Asian Font to flash memory.
- Download Font: If you already used the Download New Font function to download window's font to flash memory, you can check on the item and select font you want.
- True Type Font: CLabel IV Rev.1.10 (or upper) supports True Type Font download function for Falcon series printers.

Multi-Text Setup

Component Name:

Rotate: 0 180
 90 270

Size:

Font Type: Internal Font Asian Font Downloaded Font True Type Font

TTF Name:

TTF Table:

Data Source: General Prompt at Print-time Database

Data:

Lock


Insert a text with Window's Font

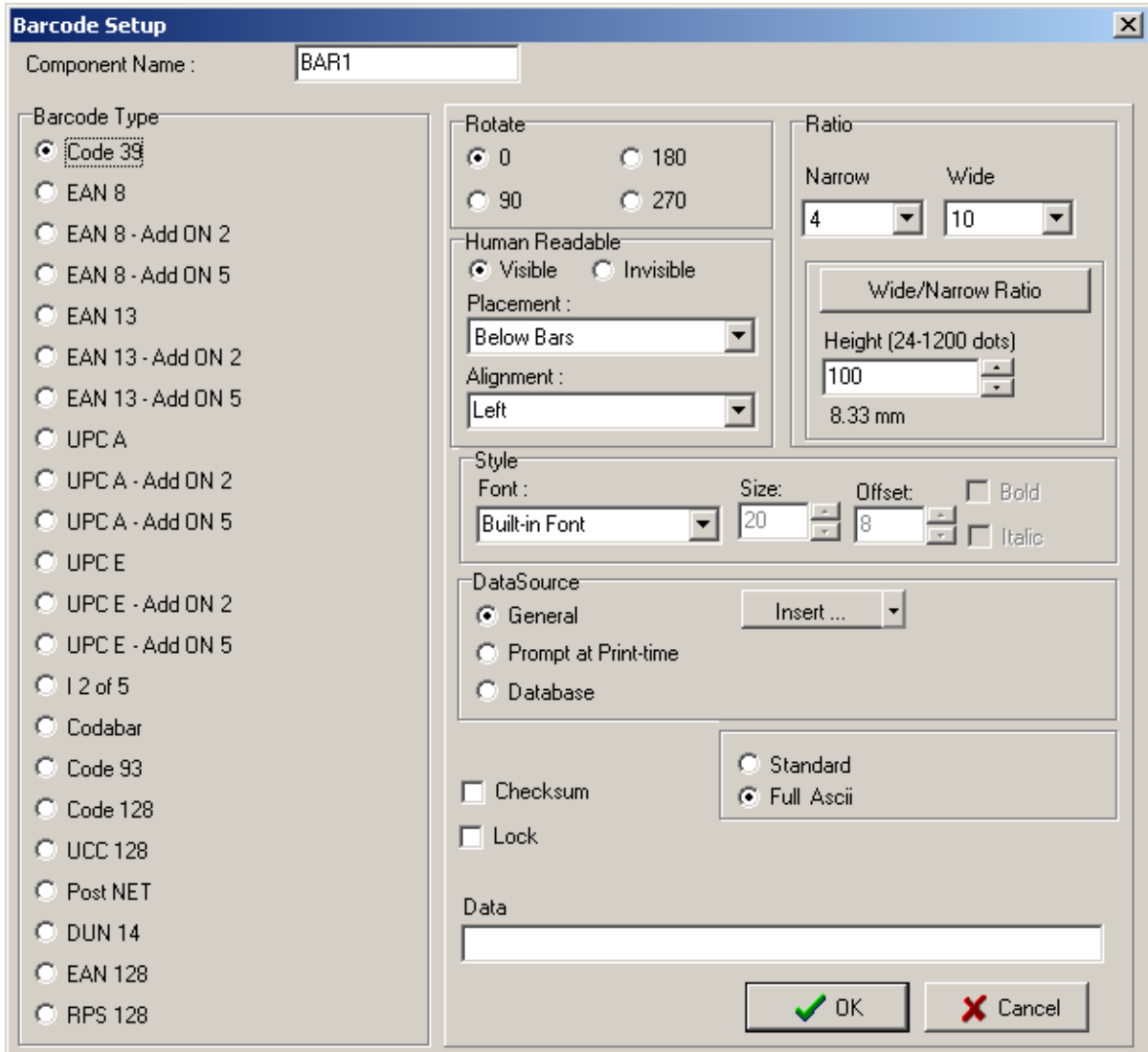
1. Click **WIN Text**.
2. On the Window Text Setup dialog box, click the font and rotation angle you would like to create on the label.
3. Input text in the Text String column.
4. If click "Change to Graphic" button, the text could be transforming into a graphic to enhance printer performance. Transformed graphics are unable to modify any longer. Please refer to the chapter of graphics for details information.
5. In data source function, you can connect text string with a database. Go to "Database" toolbar, and select "Open DBF file" or "ODBC connect to open a database file."

The screenshot shows the 'Window Text Setup' dialog box. The title bar is 'Window Text Setup' with a close button. The main area is divided into several sections:

- Component Name:** A text box containing 'WINTEXT1'.
- Rotate:** A group box containing four radio buttons: '0' (selected), '180', '90', and '270'.
- Data Source:** A group box containing two radio buttons: 'General' (selected) and 'DataBase'.
- Text String:** A large text area with a vertical scrollbar, currently empty.
- Font:** A button located to the right of the Rotate group box.
- Change to Graphic:** A button located below the Font button.
- Lock:** A checkbox located at the bottom left of the dialog.
- OK and Cancel:** Two buttons at the bottom right, with 'OK' having a green checkmark and 'Cancel' having a red X.

8: Inserting a Barcode

1. Click .
2. On the Barcode dialog box, select a barcode type, rotated angle, readable, barcode wide/narrow ratio and height you would like to create on the label. Please acknowledge the barcode standard on each type as the label ratio affection on CCD readability.
3. DataSource setting is the same as in the previous “Text Setup” chapter. Please refer to the “Advance Menu Description” for the functionality of “Insert...” serial and variable numbers.
4. Input barcode data in the Data column on the below.




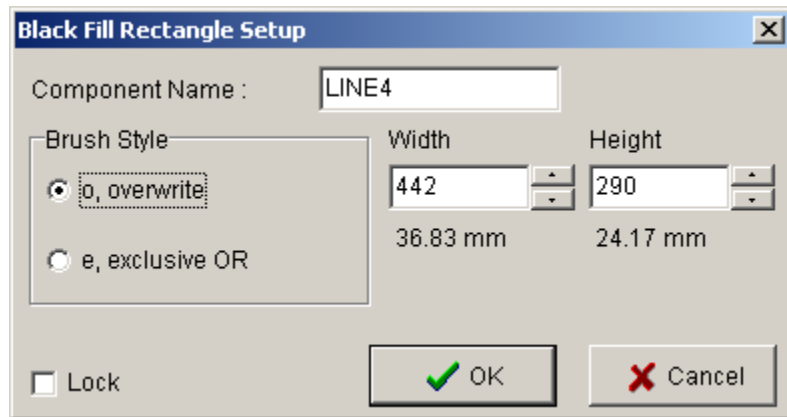
The image shows a 'Barcode Setup' dialog box with the following fields and options:

- Component Name:** BAR1
- Barcode Type:** Code 39 (selected), EAN 8, EAN 8 - Add ON 2, EAN 8 - Add ON 5, EAN 13, EAN 13 - Add ON 2, EAN 13 - Add ON 5, UPC A, UPC A - Add ON 2, UPC A - Add ON 5, UPC E, UPC E - Add ON 2, UPC E - Add ON 5, I 2 of 5, Codabar, Code 93, Code 128, UCC 128, Post NET, DUN 14, EAN 128, RPS 128
- Rotate:** 0 (selected), 90, 180, 270
- Human Readable:** Visible (selected), Invisible
- Placement:** Below Bars
- Alignment:** Left
- Ratio:** Narrow: 4, Wide: 10
- Wide/Narrow Ratio:** (button)
- Height (24-1200 dots):** 100
- 8.33 mm**
- Style:** Font: Built-in Font, Size: 20, Offset: 8, Bold (unchecked), Italic (unchecked)
- DataSource:** General (selected), Prompt at Print-time, Database
- Insert ...** (button)
- Checksum:** (unchecked)
- Lock:** (unchecked)
- Standard:** (unchecked)
- Full Ascii:** (selected)
- Data:** (empty text field)
- OK** (button with green checkmark) and **Cancel** (button with red X)


9: Drawing Lines and Shapes

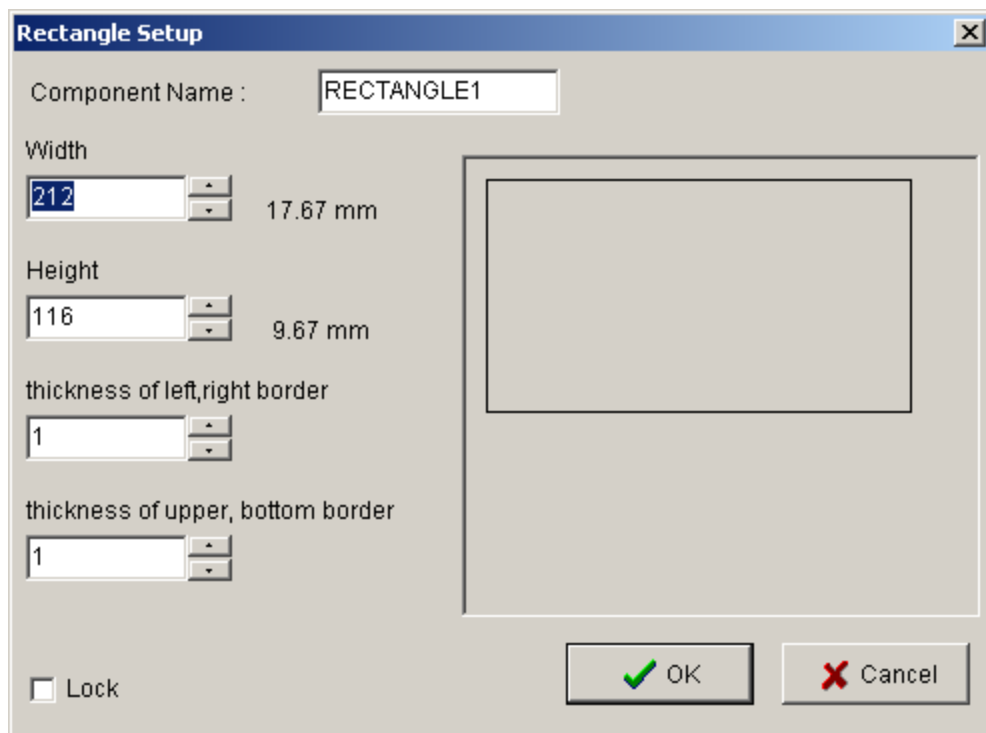
Drawing a straight line or box

1. Click .
2. Drag the pointer diagonally in the direction and size you would like to create a label.
3. To change the thickness or brush style, double click the line or box, and then input width and height.




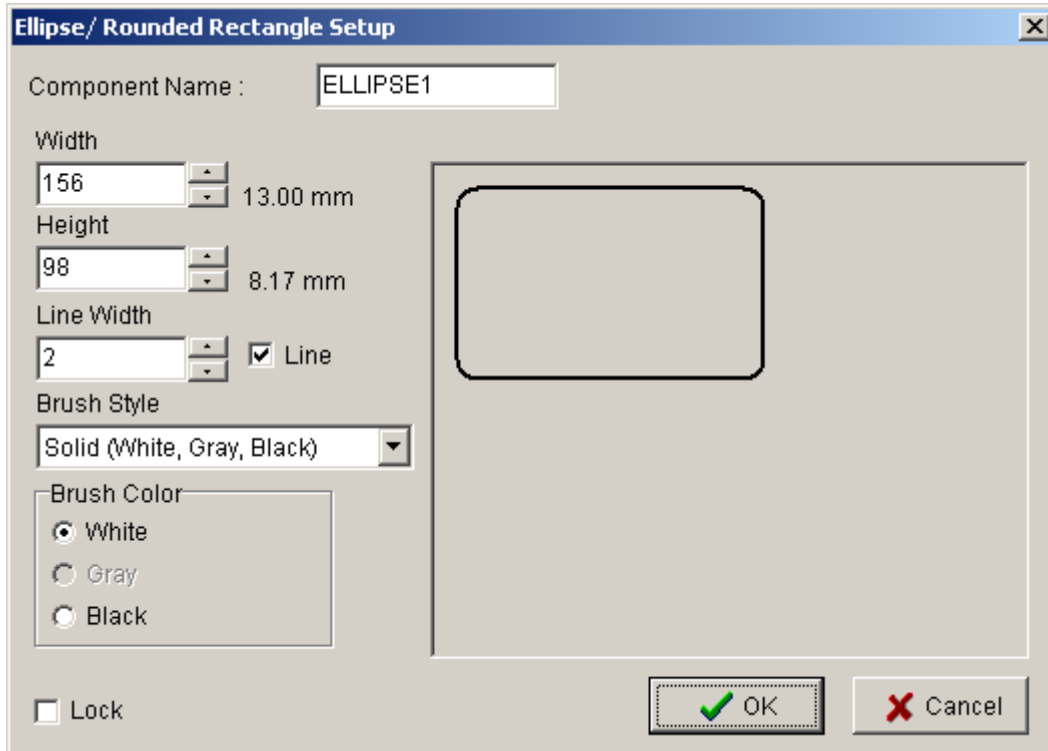
Drawing a square-corner rectangle or square

1. Click .
2. Drag the pointer diagonally in the direction and size you would like to create a label.
3. To change the border thickness, double click the rectangle, and then input width, height, and thickness in the Rectangle Setup dialog box.




Drawing a round-corner rectangle or square

1. Click .
2. Drag the pointer diagonally in the direction and size you would like to create a label.
3. To change the thickness, double click the rectangle, and then input width, height, line width, brush style and color in the Ellipse/ Rounded Rectangle Setup dialog box.




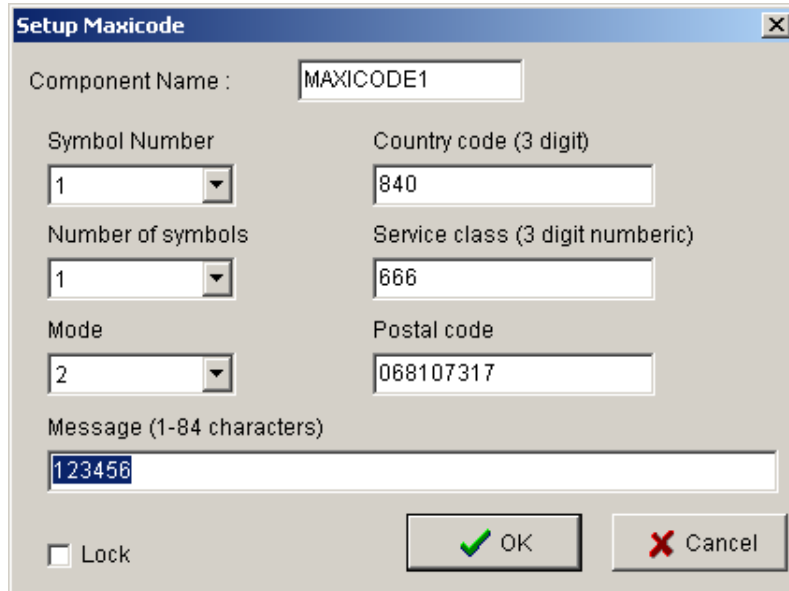
Drawing an ellipse or circle

1. Click .
2. Drag the pointer diagonally in the direction and size you would like to create.
3. To change the thickness, double click the rectangle, and then input thickness and color in the Ellipse/ Rounded Rectangle Setup dialog box.



10: Inserting MAXICODE


1. Click .
2. In the MAXICODE dialog box, select a symbol number, numbers and mode you would like to create the label.
3. Input country code, service class and postal code.
4. Input barcode data in the Message column (up to 84 characters).

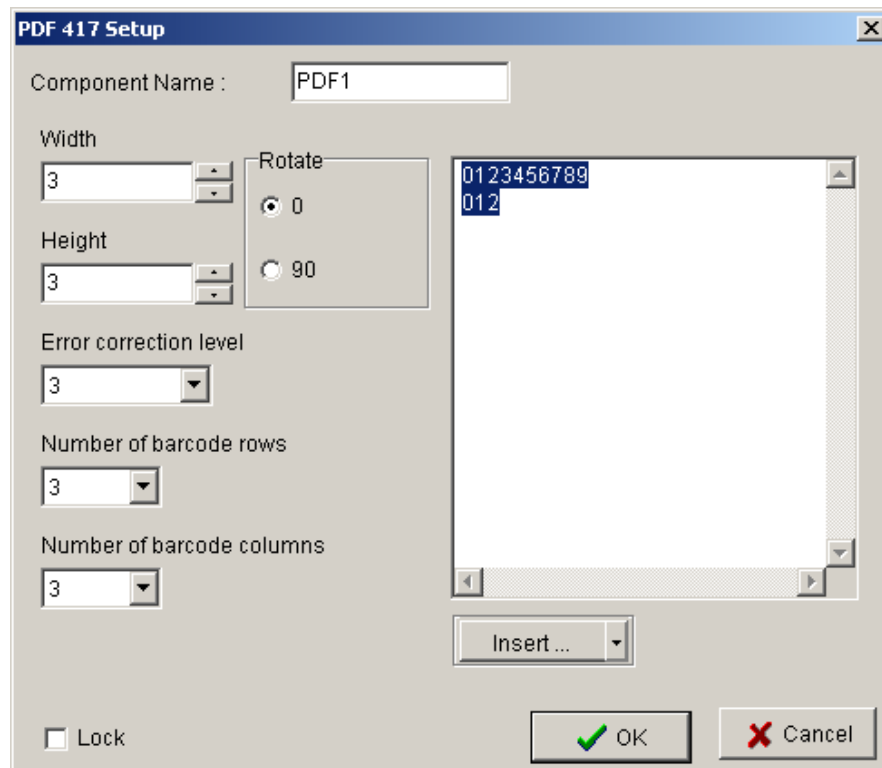


The 'Setup Maxicode' dialog box contains the following fields and controls:

- Component Name: MAXICODE1
- Symbol Number: 1
- Country code (3 digit): 840
- Number of symbols: 1
- Service class (3 digit numeric): 666
- Mode: 2
- Postal code: 068107317
- Message (1-84 characters): 123456
- Lock:
- Buttons: OK (with green checkmark), Cancel (with red X)

11: Inserting PDF417


1. Click .
2. In the PDF 417 Setup dialog box, input width, height, error correction level, number of rows and column you would like to have in a label.
3. Input data and select rotated angle of 0° or 90°.



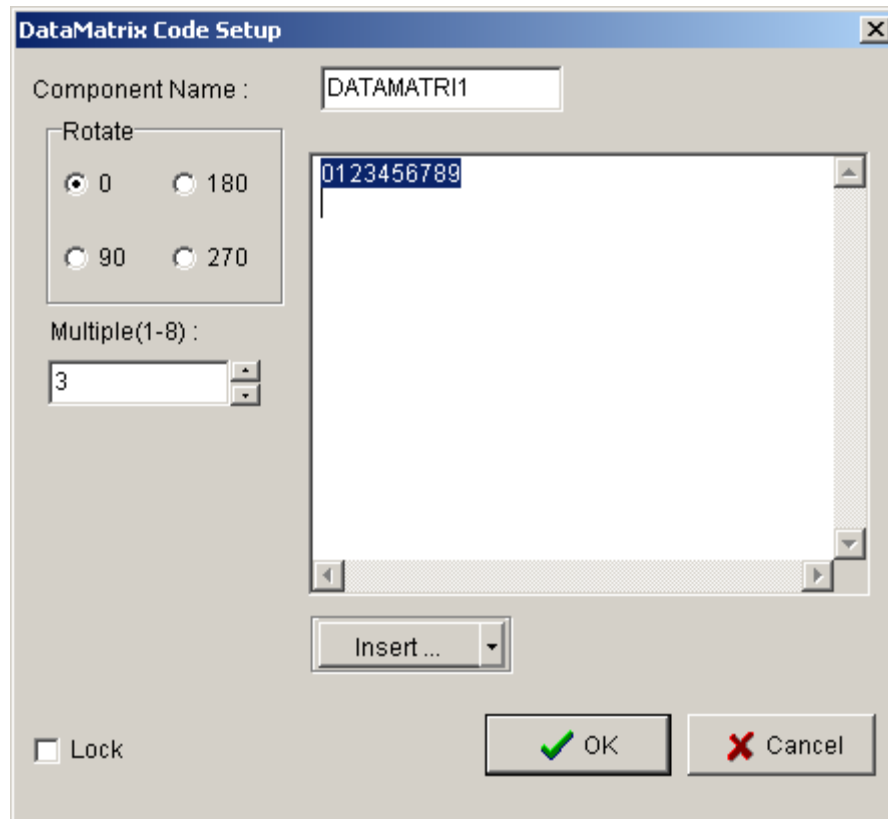
The 'PDF 417 Setup' dialog box contains the following fields and controls:

- Component Name: PDF1
- Width: 3
- Height: 3
- Rotate: 0, 90
- Error correction level: 3
- Number of barcode rows: 3
- Number of barcode columns: 3
- Message area: 0123456789, 012
- Insert... button
- Lock:
- Buttons: OK (with green checkmark), Cancel (with red X)


12: Inserting DataMatrix Code

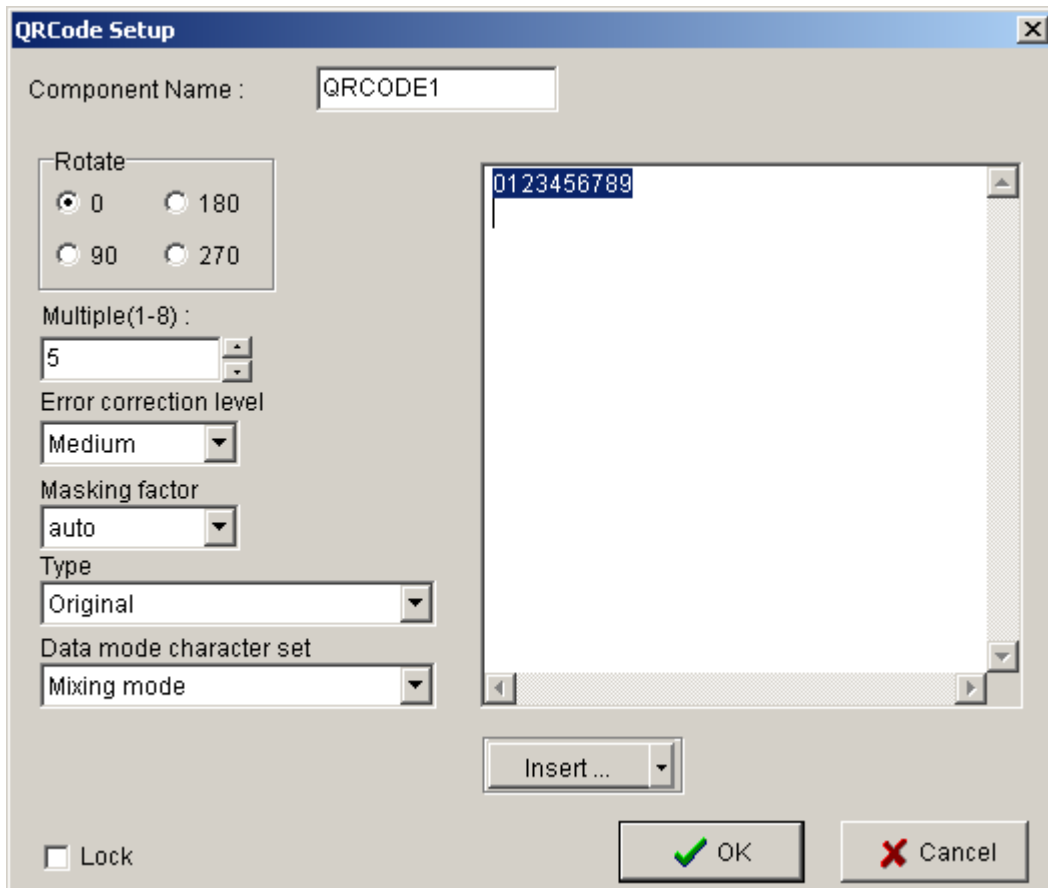
1. Click .
2. Input data on the Number of encoded data box.
3. Select multiple numbers from 1 to 8.
4. To put a serial or variable numbers in the label, select "Inset..." button.

Please refer to the "Advance Menu Description" for the functionality of "Inset..." serial and variable numbers.




13: Inserting QR Code

1. Click .
2. Input data on the Number of encoded data box.
3. Select rotated angle for QRCode setup.
4. Select multiple numbers from 1 to 8.
5. Select error correction level, mask factor, original or enhanced type and data mode character set.



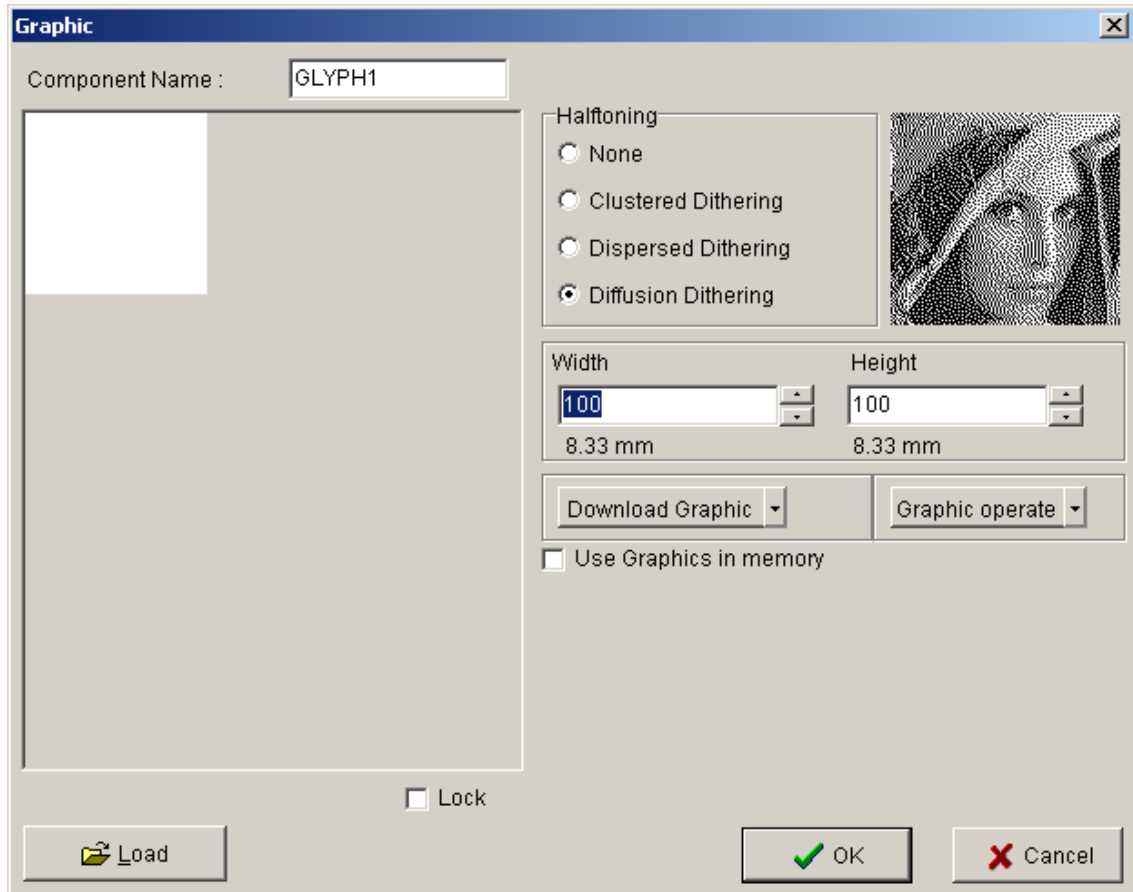
14: Inserting Graphics

Insert graphics from file



6. Click .
7. Select a halftoning of dithering you would like to create in a label.
8. Input width, height you would like to have a graphic.
9. On the Graphic dialog box, click Load.
10. In the open dialog, go to "Look in"; select the file you would like to open.
11. Click the label name, and then click "Open".
12. Alternatively, double-click the folder that contains the label you want to open.
13. To insert graphics, click Graphic operate, click "Paste from clipboard".

Notes.

- Select download graphics to internal or external memory to enhance printer performance. Graphics in the internal memory will be clear while printer turns off.
To erase graphics, please go to "Advance" toolbar, select "Clear Memory", and then "Delete Graphics".
- Graphics would operate in rotate, flip, inverse color.




15: Lock Objects

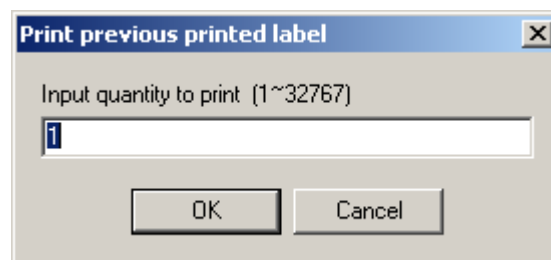
1. Click .
2. All objects in the Label Edit Area will be locked, and not be able to move nor edit.
3. Click  again to unlock objects.

Notes.

- In the Draw Bar setting dialog, the “Lock” function setup for each object.

16: Print Previous printed Label:

1. Click .
2. Input quantity to print you would like to have.




Note:

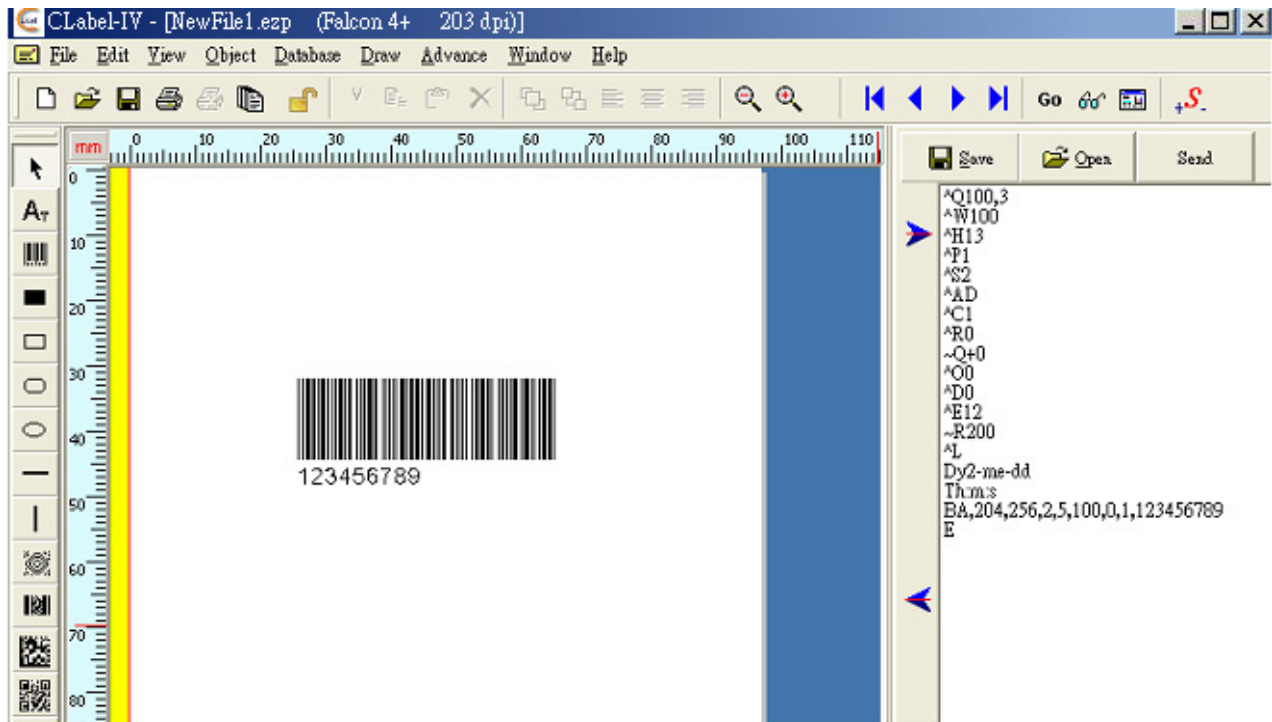
- If label has serial number, you can use this method to keep on printing.

Part IV: Advance Menu

17: Command Edit Area

When you create a label in the Label Edit Area, you can click  to show the commands in the Command Edit Area. In this area, you can save commands as a text file or send the commands to the printer. You also can open an existing file by click "Open".

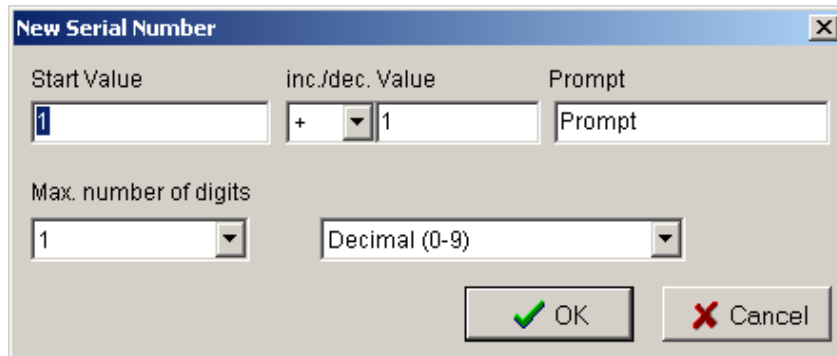
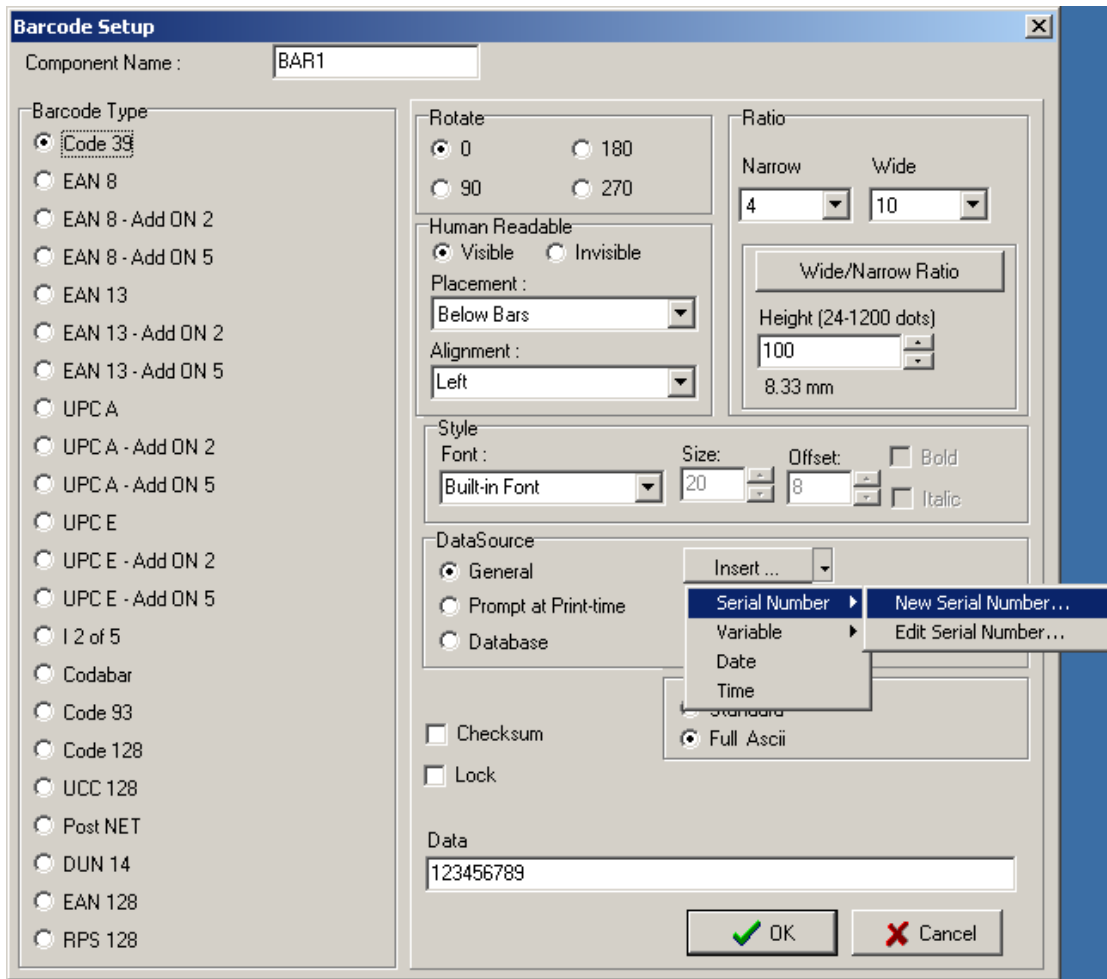
Advance programmer could edit commends and send commends such as COPY, PRINT, TYPE etc to printers in DOS mode.




18: Using Serial and Variable Number

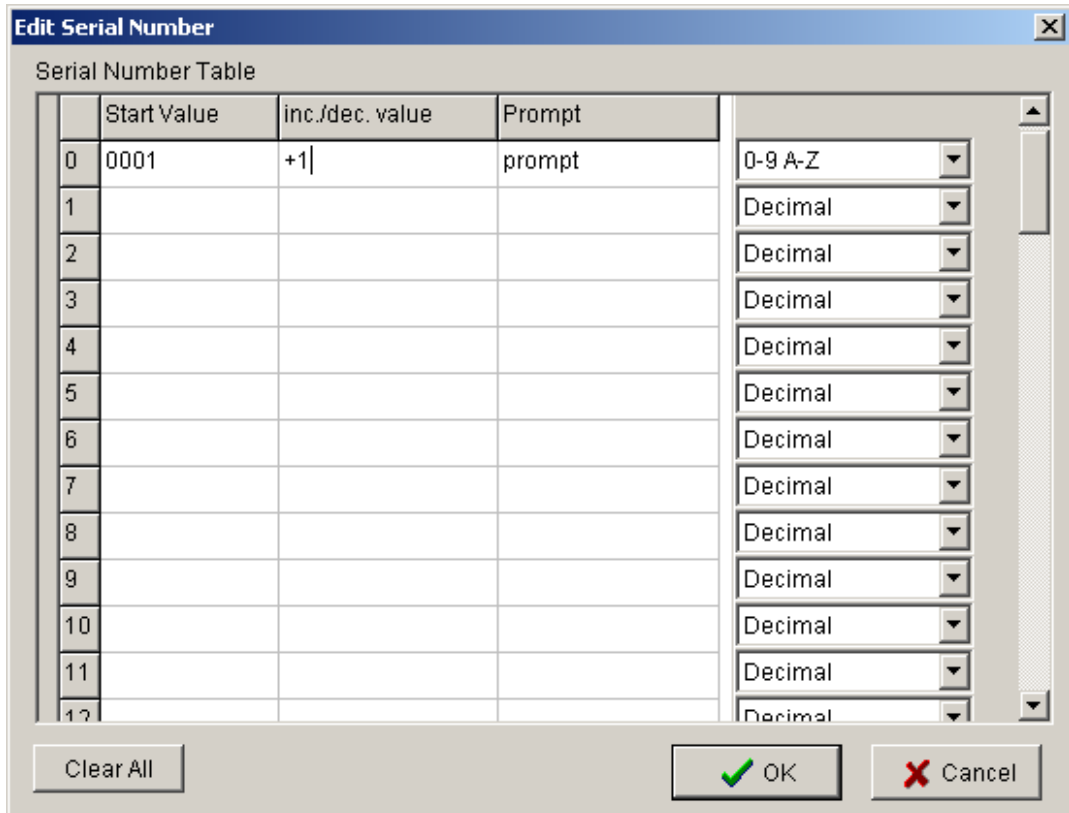
Insert Serial Number

1. Insert a text or barcode.
2. Double click on the object.
3. In Data source, click Insert, select Serial to inset a new serial number.
4. In the New Serial dialog, input start value and increase or decrease value of serial numbers.
 - For example: Start value = 1000, Increase value = 1, Prompt = S/N. The print out number will be from 0001, 0002, 0003, 0004 etc.
5. Input the max number of digits of serial numbers.



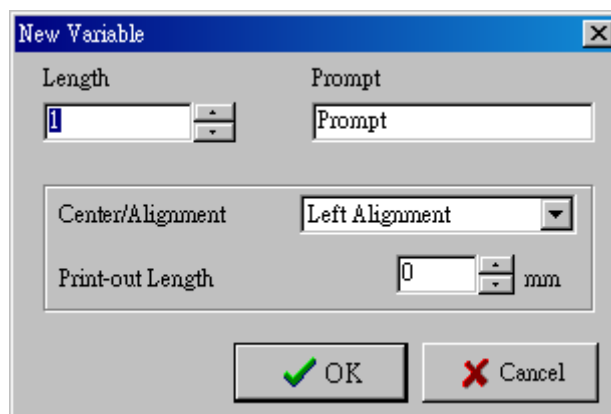
Edit Existing Serial Number

1. Double click the object that you would like to edit.
2. In the Data source, select "Insert", and click "Edit Serial Number" or click  toolbar.
3. In the Edit Serial dialog box, click the item you want to edit.
4. Click the item again, the data will be highlighted.
5. Input new values and then press "OK".



Insert Variable

1. Insert a text or a barcode.
2. Double click on the object.
3. In the Data source, click "Insert..", and select "New Variable".
4. In the New Variable dialog box, input length and select justify value you would like to align variables.



Edit Existing Variable

1. Double click on the object that you would like to edit.
2. In the Data source, click Insert, and select "Edit Variable".
3. In the Edit Variable dialog box, click an item you want to edit.
4. Click the item again, the data will be highlight.
5. Input new values or changes and then press "OK".

The screenshot shows the 'Edit Variable' dialog box with a table containing 14 rows (0-13) and 5 columns: Variable, Length, Prompt, Center/Alignment, and mm. The 'Center/Alignment' dropdown menu is open, showing 'Left Alignment', 'Centered', and 'Right Alignment'. The 'mm' column has a value of 2 for row 0 and 0 for rows 1-13. The 'Clear All', 'OK', and 'Cancel' buttons are visible at the bottom.

Variable	Length	Prompt	Center/Alignment	mm
0	5	Prompt	Left Alignment	2
1			Left Alignment	0
2			Centered	0
3			Right Alignment	0
4			0	0
5			0	0
6			0	0
7			0	0
8			0	0
9			0	0
10			0	0
11			0	0
12			0	0
13			0	0

19: Using Real Time Clock

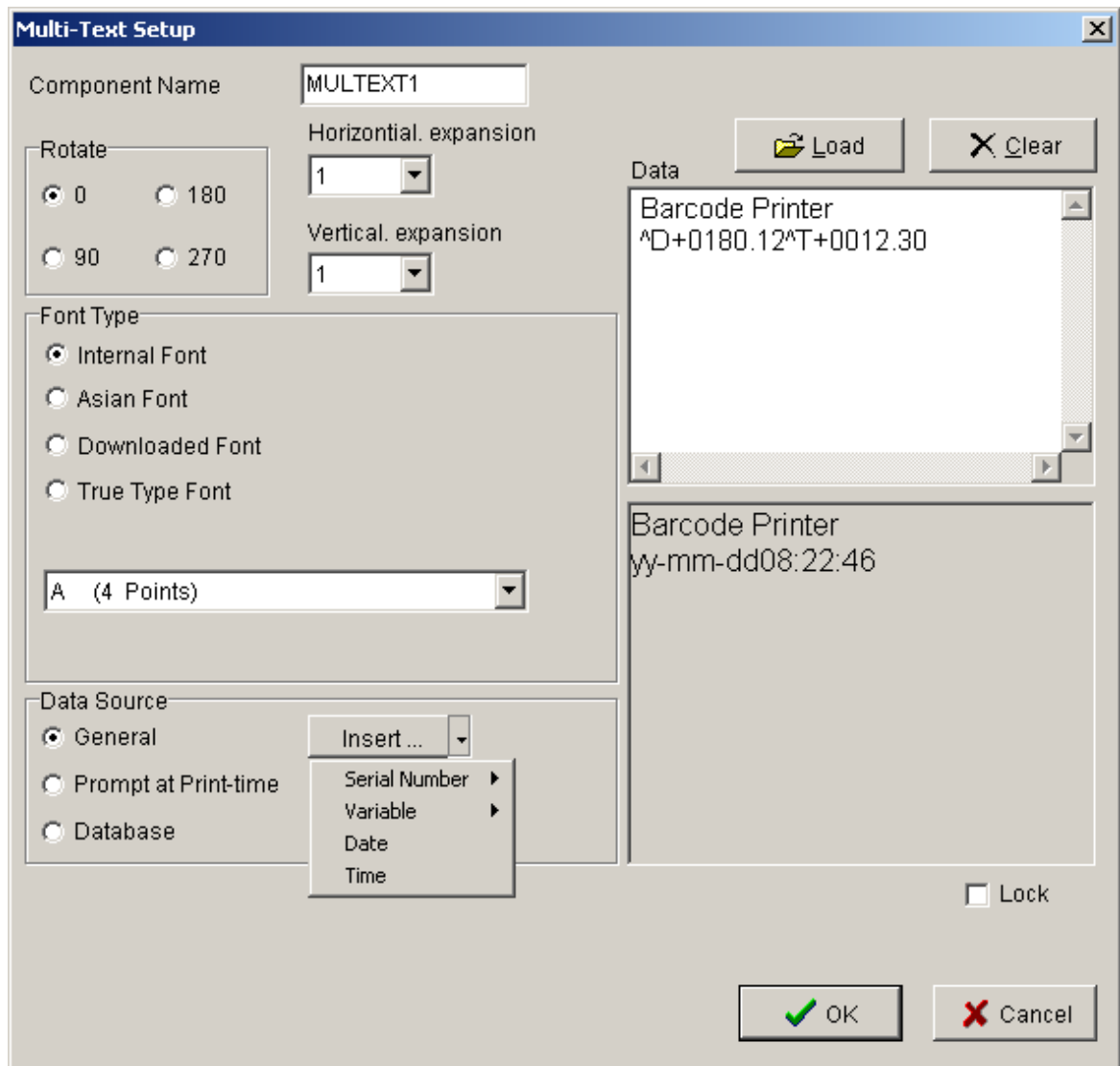
Setup Printer Date and Time

1. Go to Advance toolbar, select "Printer Date/Time Setup".
2. In the Date/Time Setup dialog box, click Year and Month type.
3. Click Reset to clear original setting.
4. Input a new date and time.
5. Click Send Setup Command button to send new time settings to printer (before sending a new date and time to printer, make sure printer is ready and "Ready LED" must in green light).
6. Click OK to close the Date/Time Setup dialog box.


The screenshot shows the 'Date/Time Setup' dialog box. It features a title bar with a close button. The main area is divided into several sections: 'Year' with radio buttons for 'two digits' (selected) and 'four digits'; 'Month' with radio buttons for 'Letters' (selected) and 'Numeric'; 'Date Output Style' with a text field showing 'yy-mm-dd' and buttons for 'Reset', 'Insert Year', 'Insert Month', 'Insert Day', and 'Insert Julian Date'; 'Real-Time Clock Setup' with two text fields showing '10/23/2007' and '7:48:42 PM' and a 'Send Setup Command' button; 'Separator of Date' with a dropdown menu showing '-'; and 'Separator of Time' with a dropdown menu showing ':' and the time '19:48:42'. At the bottom are 'OK' and 'Cancel' buttons.

Insert Date and Time in a Label

1. Double click on a text or a barcode object.
2. Click "Insert", and select "Date or Time" to insert.
3. The command will show (^D) or (^T) parameter in data column.

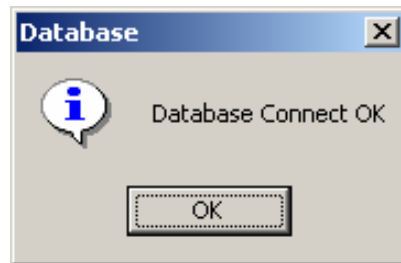
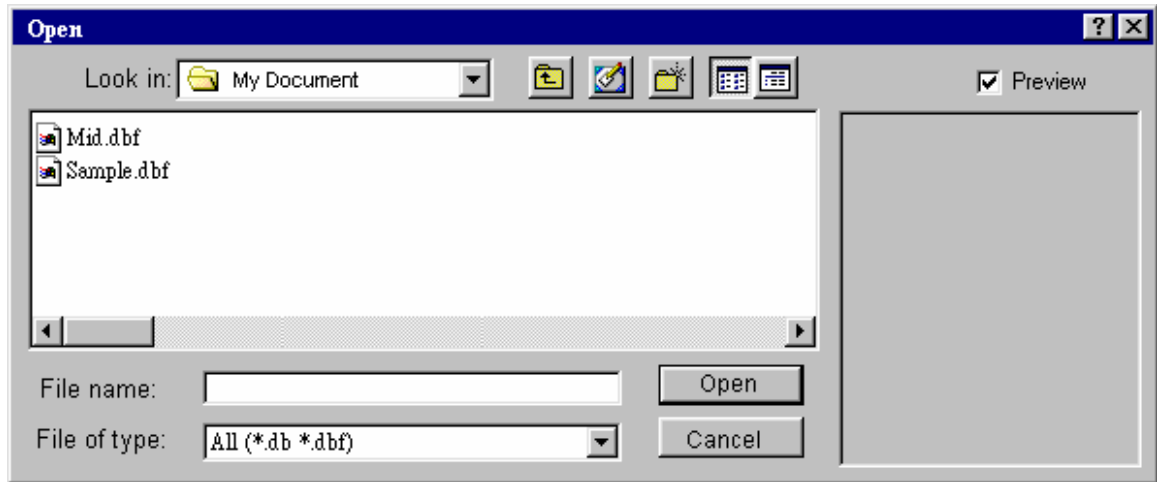


20: Database Connection

Database connectivity is to link up an existing database with a label format such as Excel, Access, and dBase files. And we don't need to do the duplicate work of keying all the data again. After connecting with a database, the printing has to be operated through print icon . If click the "Send" button in command edit area, the printer will print the single data only displayed on the screen.

Use DBF file connection

1. Go to Database menu, click "Open DBF file".
2. Select the Files of a database you would like to connect.
3. Alternatively, double-click the folder that contains the file you would like to open.



Note.

- If the connection is done, the screen will show Database connect OK.
- If you could not connect the database file, the file may be damaged. Please check DBF built.

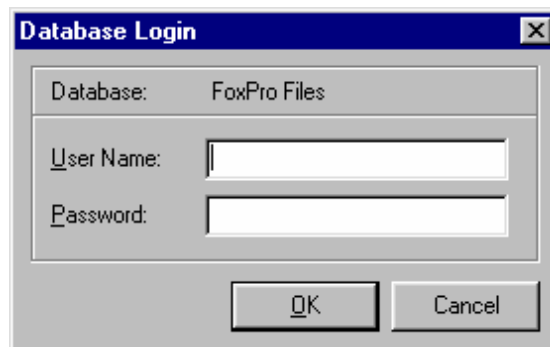
Use ODBC Connection

1. Go to Database menu, click ODBC Connect.
2. Select a Database Type and Table name you would like to connect.
3. Go to "ODBC Administrator" to replace a database directory.



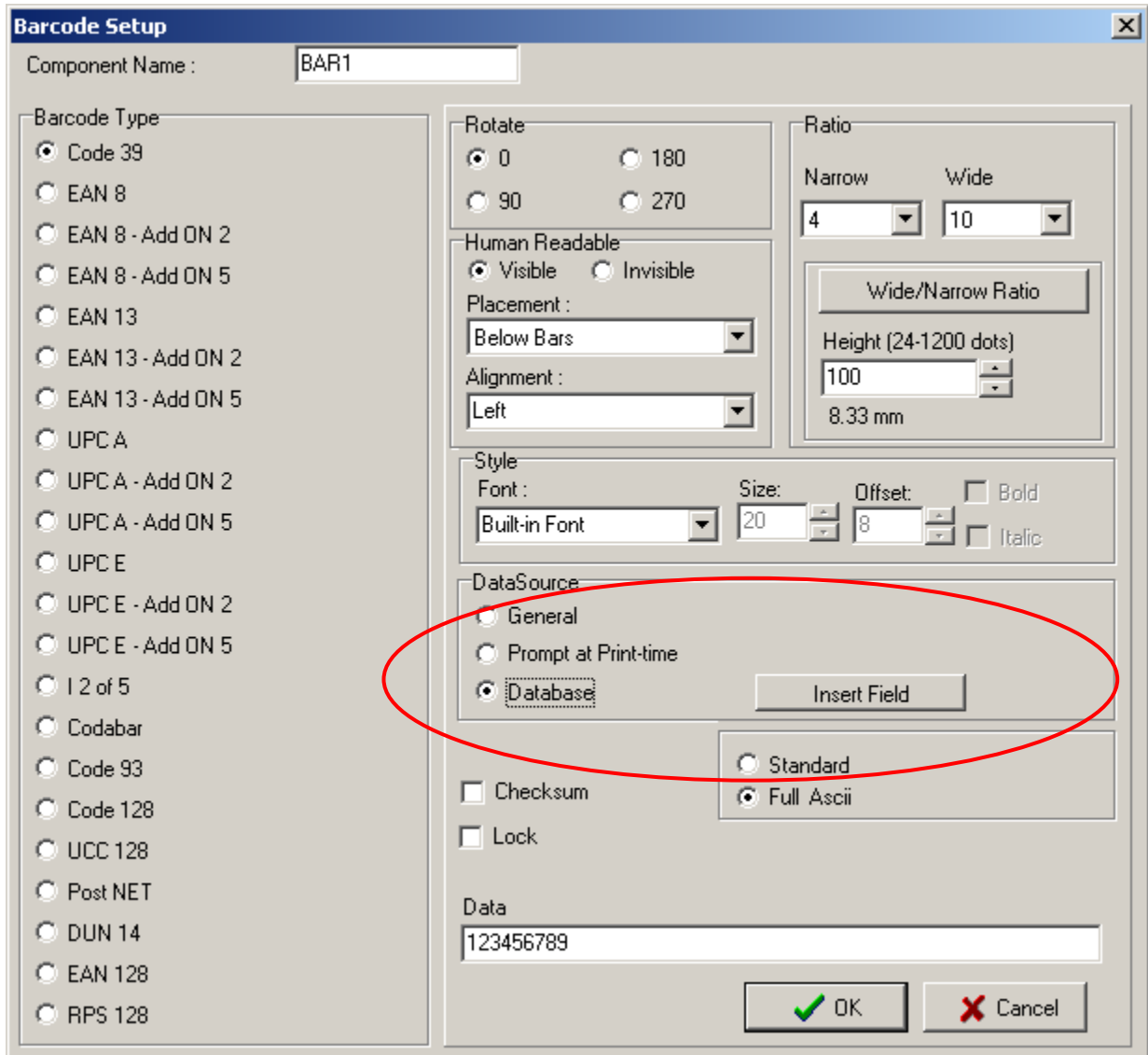
Note.

- Before you use the ODBC Connect function, you should use Windows Control Panel to install the new ODBC driver. The ODBC driver is the appended to application software that you use (such as FoxPro, Access and more). When you install the ODBC driver, you must define one or multiple data source.
- Regarding the installation of ODBC driver and definition of data source, please refer to the ODBC Help from your Windows.
- When the Database Login shows on the screen, you can enter your database file's user name and password or just click OK.

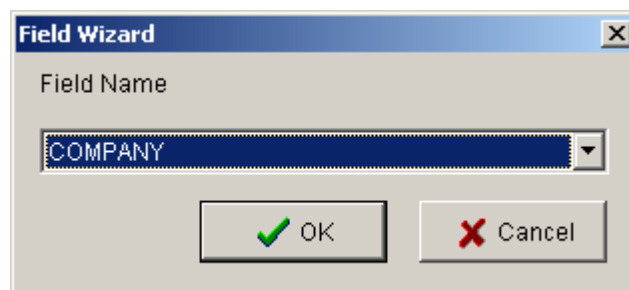


Database operation

1. Double click a text or a barcode.
2. On the Data Source, click "Insert Field".
3. Select a Field Name you would like and then click OK.



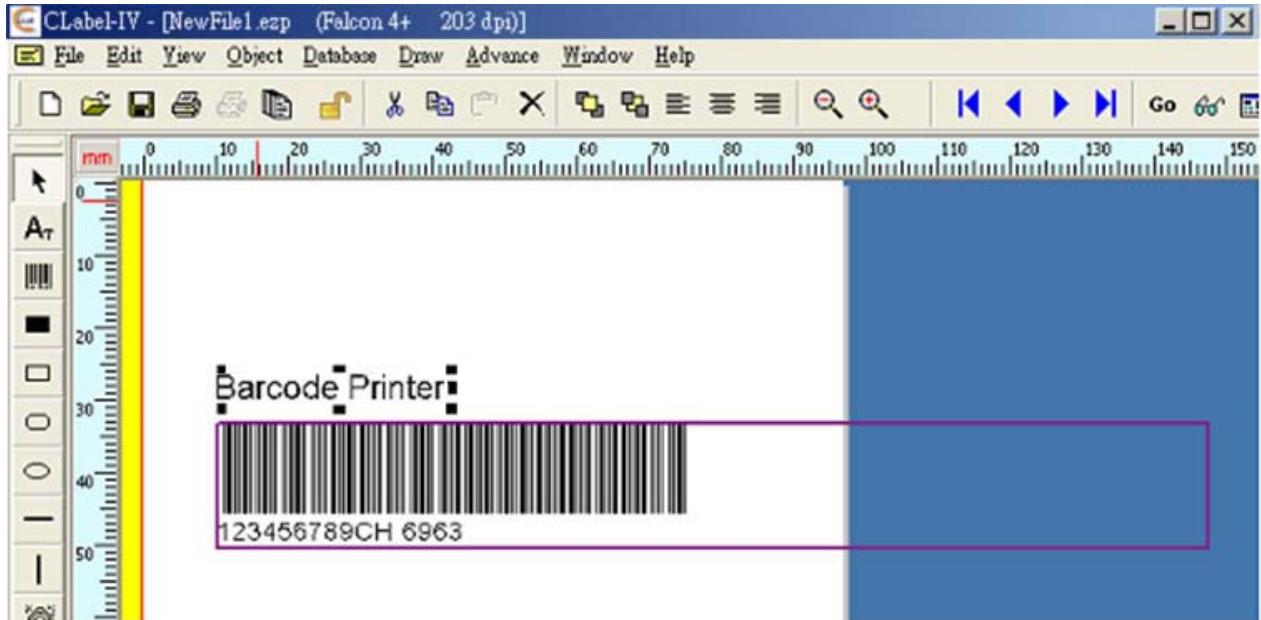
The image shows the 'Barcode Setup' dialog box. The 'Component Name' is 'BAR1'. The 'Barcode Type' list includes various options like Code 39, EAN 8, etc. The 'Rotate' section has radio buttons for 0, 90, 180, and 270 degrees. The 'Human Readable' section has radio buttons for 'Visible' and 'Invisible', and dropdowns for 'Placement' (set to 'Below Bars') and 'Alignment' (set to 'Left'). The 'Ratio' section has dropdowns for 'Narrow' (4) and 'Wide' (10), and a 'Height' of 100 dots (8.33 mm). The 'Style' section has dropdowns for 'Font' (Built-in Font), 'Size' (20), and 'Offset' (8), with checkboxes for 'Bold' and 'Italic'. The 'DataSource' section has radio buttons for 'General', 'Prompt at Print-time', and 'Database' (which is selected and circled in red). An 'Insert Field' button is next to it. Below are checkboxes for 'Checksum' and 'Lock', and radio buttons for 'Standard' and 'Full Ascii' (selected). The 'Data' field contains '123456789'. 'OK' and 'Cancel' buttons are at the bottom.



The image shows the 'Field Wizard' dialog box. The 'Field Name' dropdown menu is open, showing 'COMPANY' selected. 'OK' and 'Cancel' buttons are at the bottom.

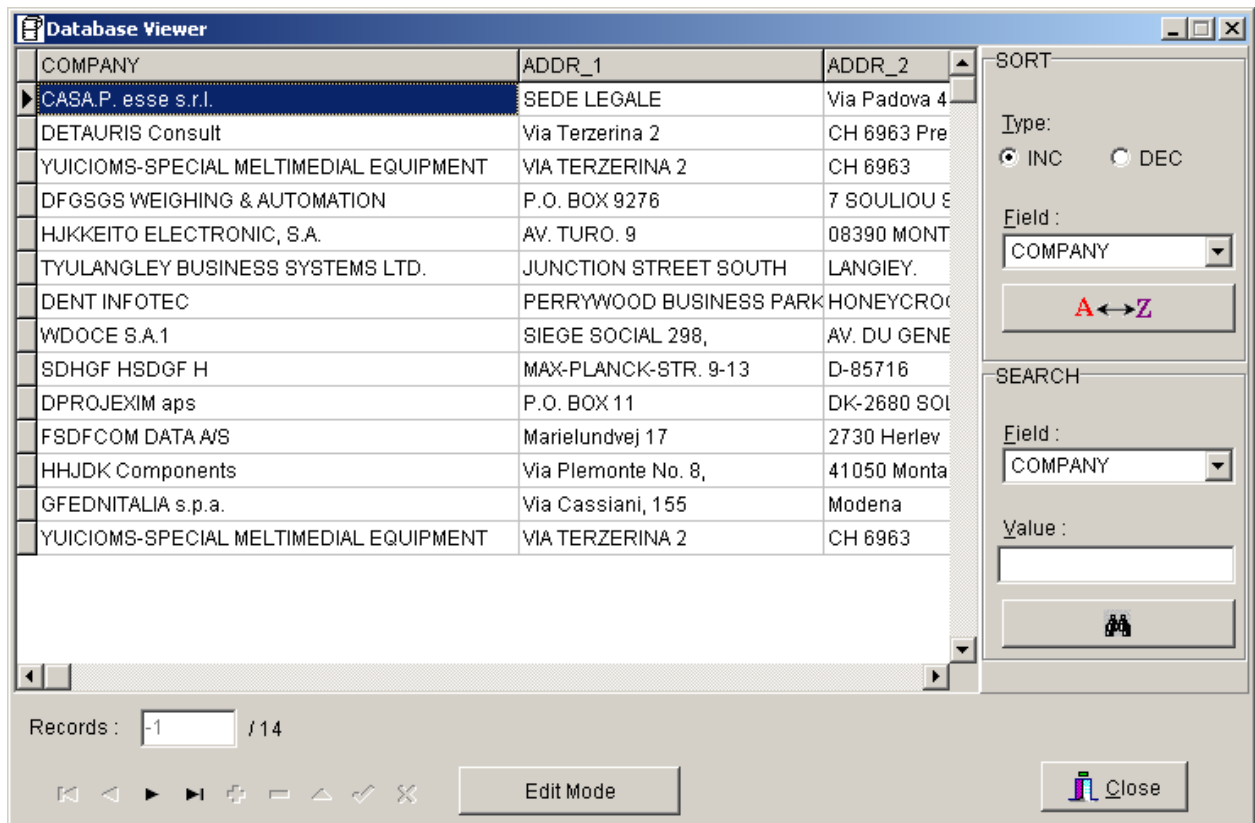
Frame Border of Database

1. Go to Database menu, select Frame Boarder.
2. In the Label Edit Area shows the maximum data length of the connected database. This could help to design a proper label within a label printable area.
3. Select a Field Name you would like and then click OK.



Database Viewer

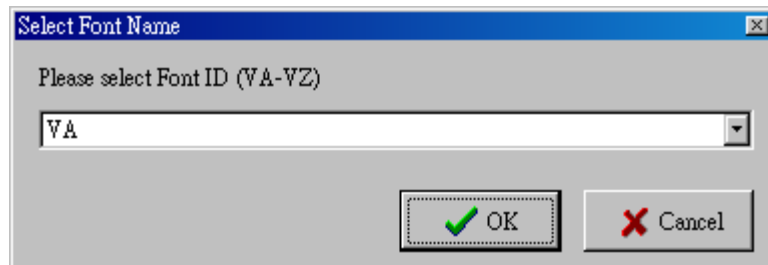
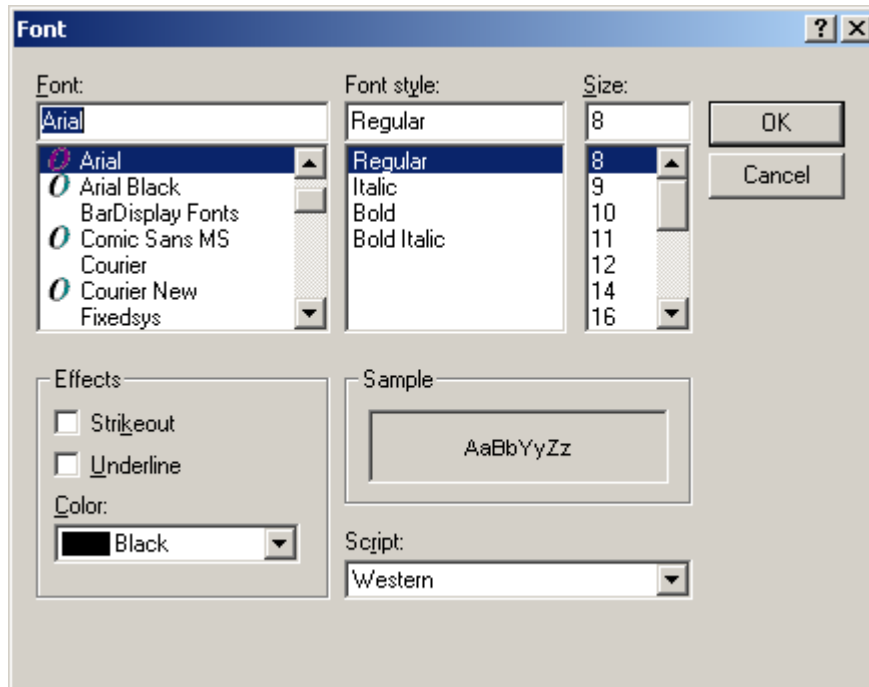
1. Go to Database menu, select "Database Viewer".
2. In the Database, you can sort a data by an alphabetical order or search data value on the database.
3. Click "Edit Mode" to edit the database.



21. Download Graphic, Label and Font

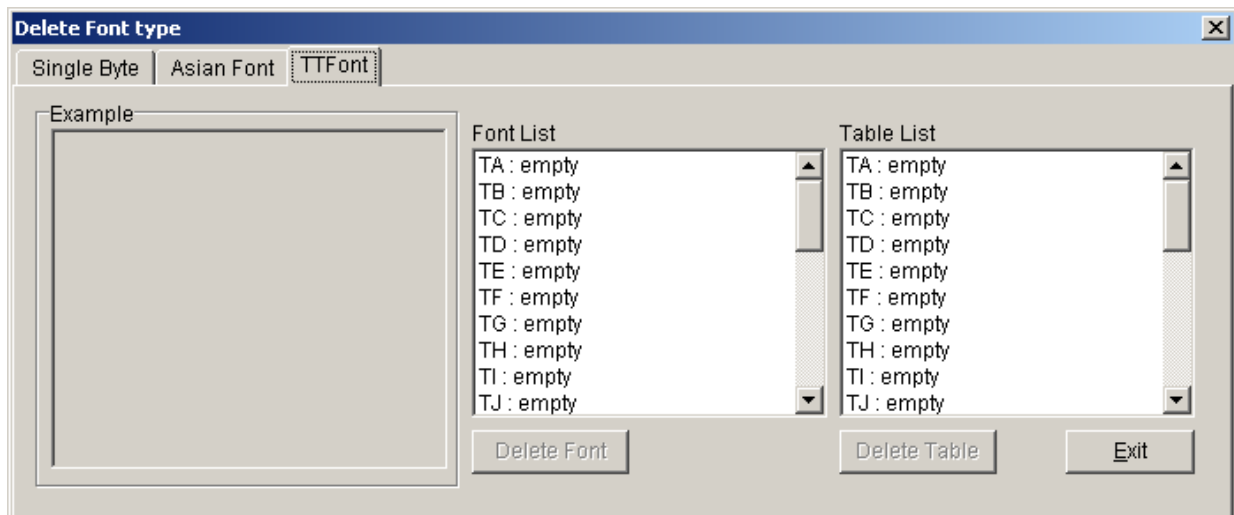
Download Font

1. Go to Advance menu, select Download and click Font.
2. Select a Font, Style, Size and Effects you would like to create a label.
3. Click Font ID, and then click OK.



Delete Font

From Advance menu, go to "Clear Memory" and then select "Delete Font".

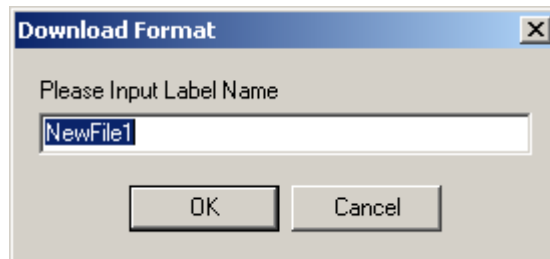


Download Labels

1. Go to Advance menu, select Download and click Label. If select “Quick Download to Printer”, system will input label name automatically by selecting the graphic title.
2. Input a Label Name, and then click “OK”.

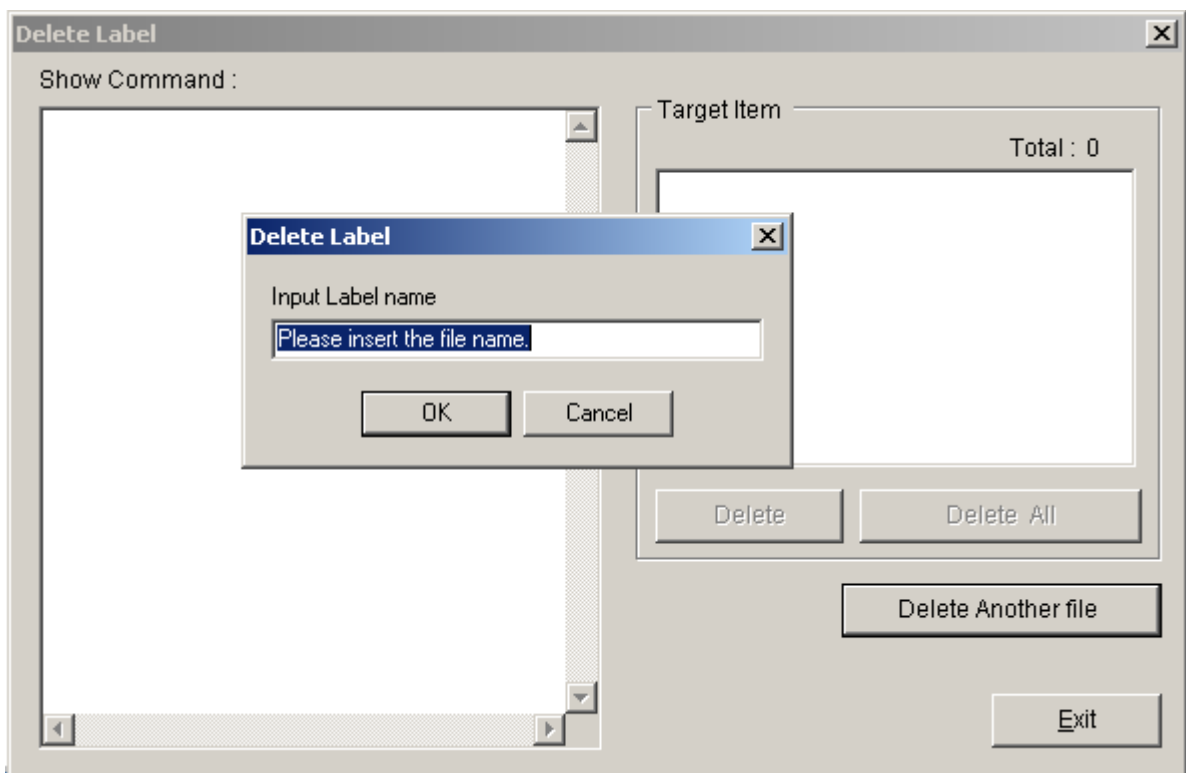
Note.

- Before you download labels, make sure printer is ready. If you would like to download from external memory, please install memory before turn on the printer.



Delete Labels

1. From Advance menu, go to “Clear Memory” and then select “Delete Labels”.
2. Input the label name you would like to delete, and then click “OK”.



Appendix: Advance Menu Description

Control:

Display memory:	Display external memory's free spaces and name of the fonts, graphics and formats.
Print Head test:	This command will print a pattern for the user to determine if the print head is damaged.
Print Version message:	Print firmware version.
Reset Printer:	Reset the printer. The LED will flash once.
Printer Clock Setup	Setup printer real time clock of date and time.
Printer Serial Port Setup	Setup printer com port of baud rate, parity and Stop Bits.
Paper Forward	Setup label forward length
Paper Backward	Setup label backward length
Buzzer	Turn on or off setting
Unit of Measurement	Set up unit of measurement in mm, cm or inch. (Default : mm)
Undo/ Redo	Enabled this function can back last step on label edits area. (Default: Disabled)
Switch the Memory	Switch memory to a Flash or CF card.

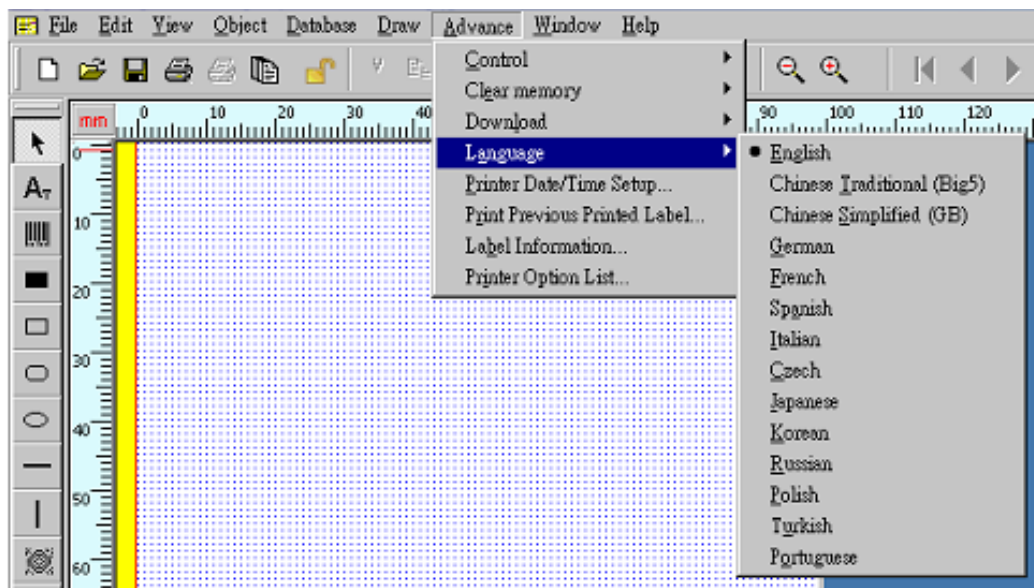
Clear Memory:

Printer external flash memory:	Clearing external flash memory will clear all information in the external flash memory.
Program memory:	Clear the current program.
Delete Graphics:	Clear graphics in internal or external memory.
Delete Font	Clear font from memory.
Delete Labels	Clear labels from memory.

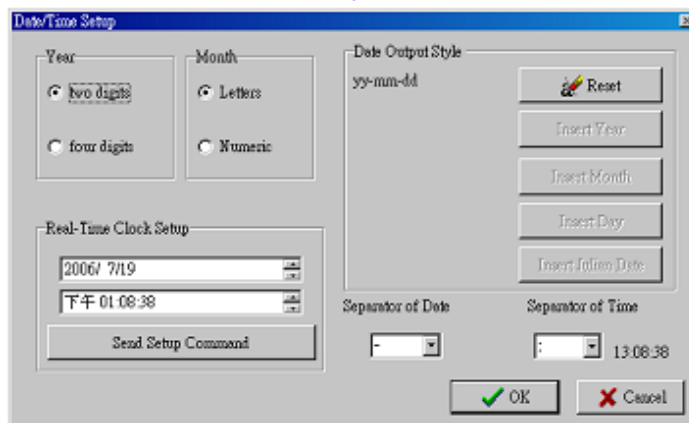
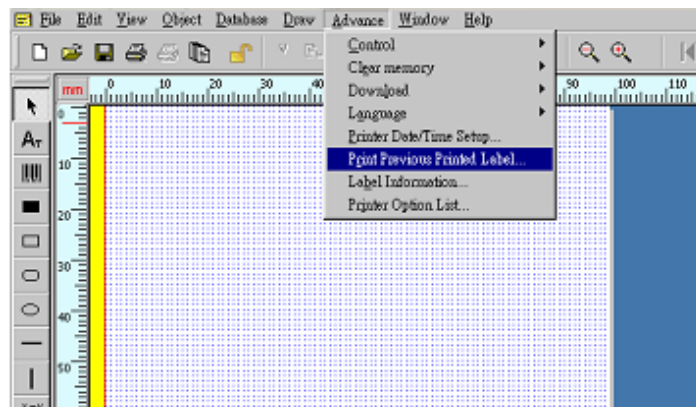
Download:

Graphics:	Download graphic files to external flash memory.
Label:	Download label to flash memory.
Font:	Download Window's font to external flash memory.
Command Files:	Download command file (text type) to flash memory.

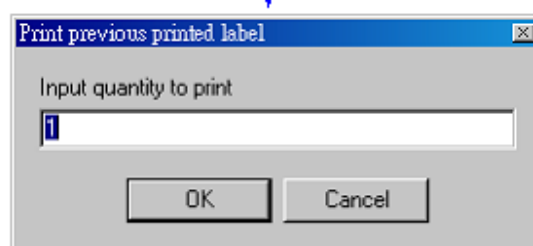
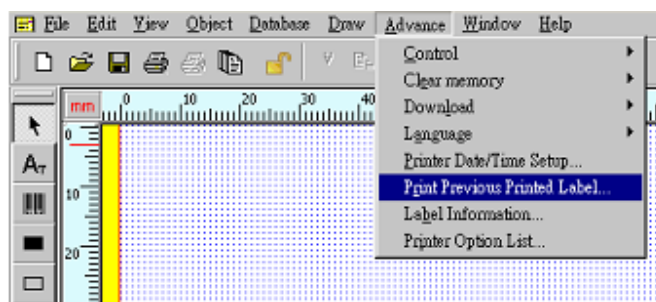
Language: Switch languages.



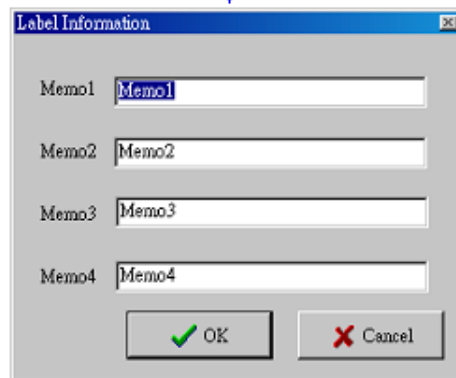
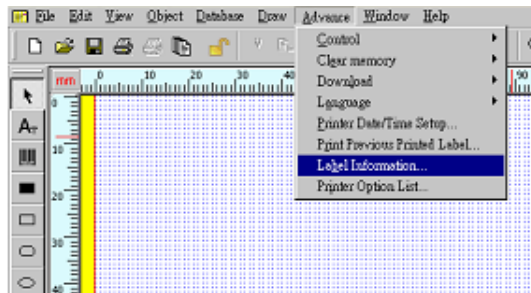
Printer Date/Time Setup: Setup the printer's date and time.



Print Previous Printer Label: Repeatedly prints the indicated copies of last label format.



Label Information: To note the label information.



Printer Option List: To setup options of the printer.

