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QLabel-IV Operation Manual



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QLabel-IV

Part I: About QLabel-IV

1: Introduction

An applied program for Windows 95/98/NT/2000/ME/XP/Vista, QLabel-IV is designed for page mode printer of EZ-1000/EZ-2000, EZ-Plus and EZ-DT series.

QLabel-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.

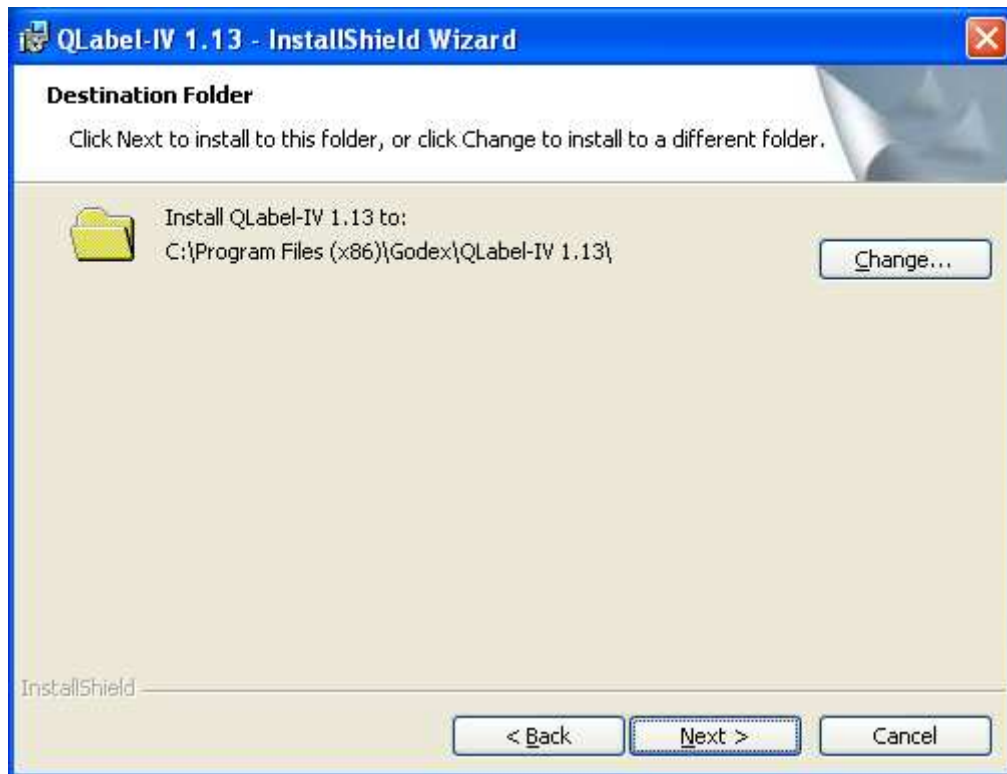
To master QLabel-IV, an executive file producer, it is strongly recommended that programmers be familiar with the Programming Language in advance.

2: Installation

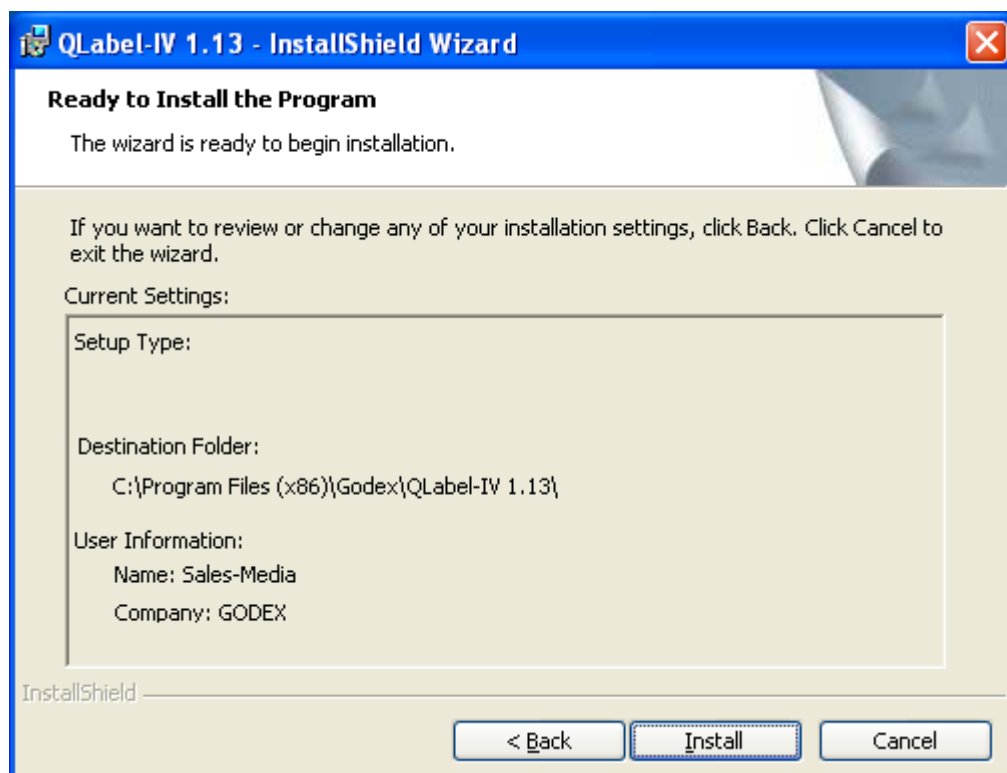
1. Under Windows 95/98/NT/2000/ME/XP/Vista simply put your product CD into your computer's CD Drive then an Auto run manual will popup automatically. Select "Install QLabel" from manual to start the installation or find the "Setup.exe" under the "QLabel" folder in product CD. If the AutoPlay feature has been disabled on your computer and the Auto run manual does not work automatically, double click on the "My Computer" icon, then right click on the CD drive and choose AutoPlay.
2. The first screen displayed is the WELCOME dialog box, press "Next".



3. Select the directory that you would like to save for the QLabel-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 then press "NEXT".



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



5. QLabel-IV will copy all the necessary files from the QLabel-IV disks.
6. At once QLabel-IV program installation completed, it will display the QLabel-IV icon. Click the icon to start the program.



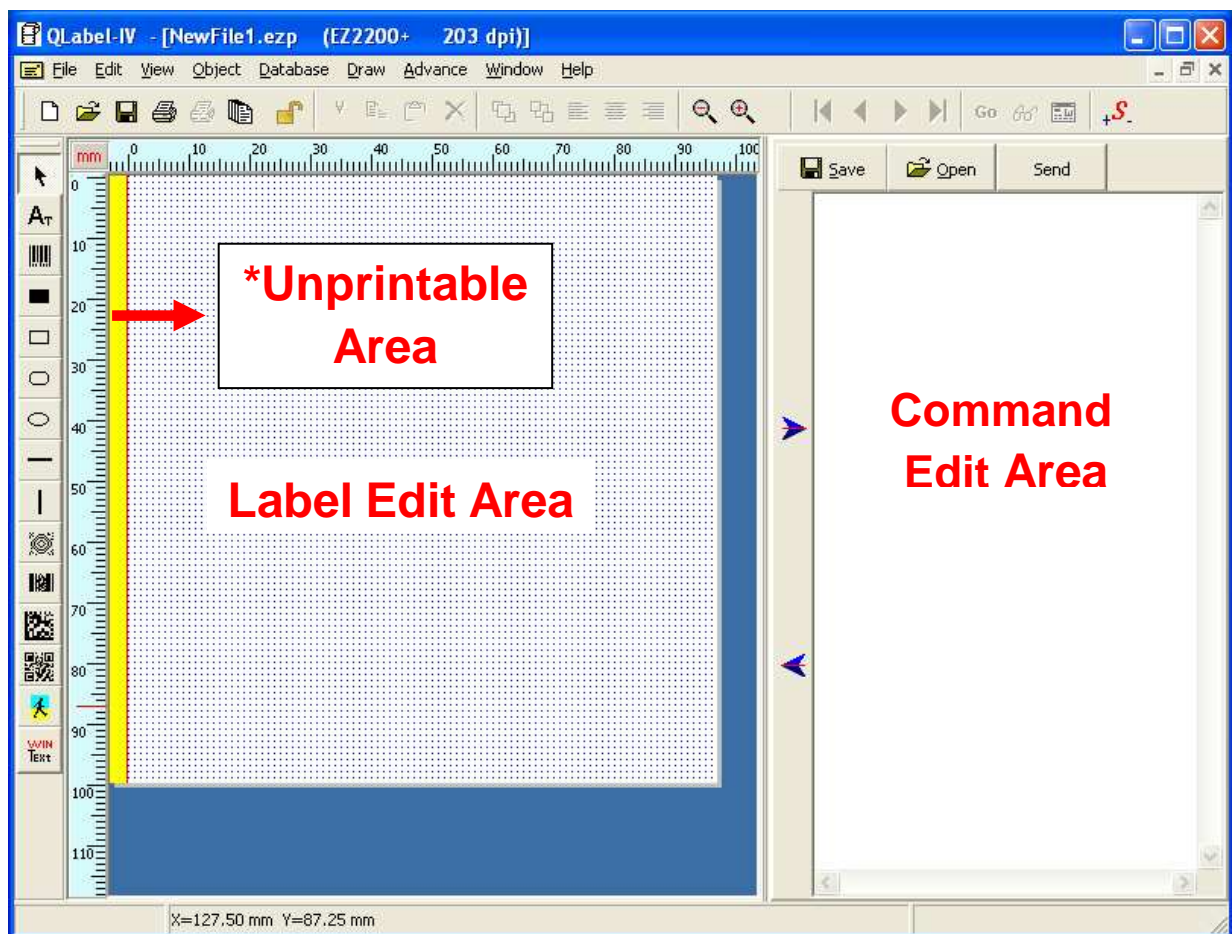
Part II: Starting on QLabel-IV

3: Start QLabel-IV

Click Start, point to Programs, point to the QLabel-IV folder, and then click the QLabel-IV program. Or click the QLabel-IV icon on desktop to start QLabel-IV program directly.

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: EZ-2000 / EZ-2000+ / EZ-6000+ series printers have an unprintable area of 3mm on the label edit area.














5: QLabel-IV Toolbars

Toolbars help you to use commands in QLabel-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.

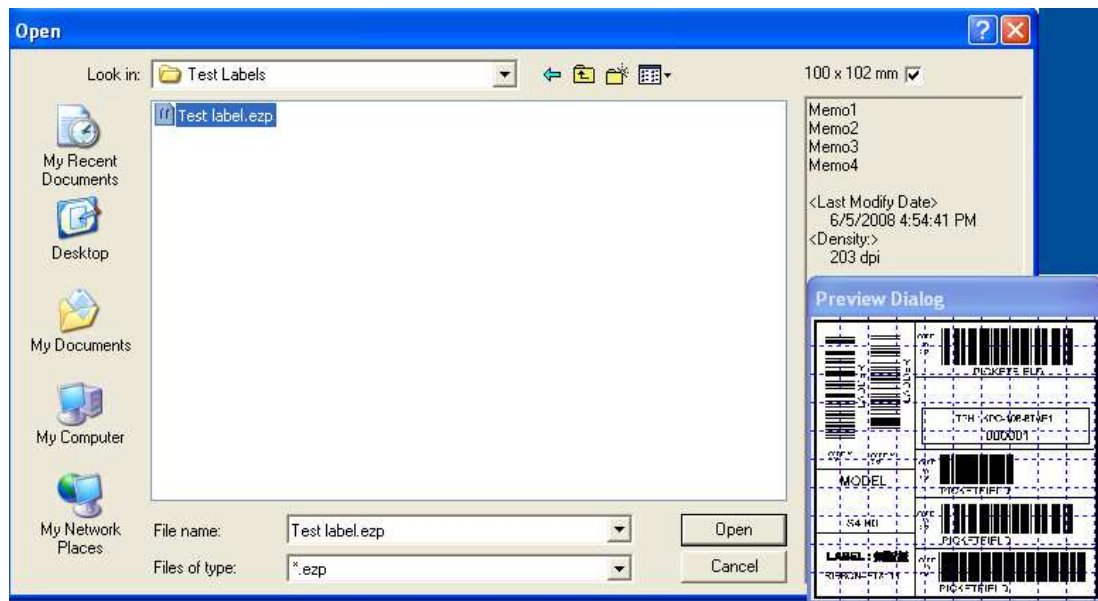
Save changes to a label

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.



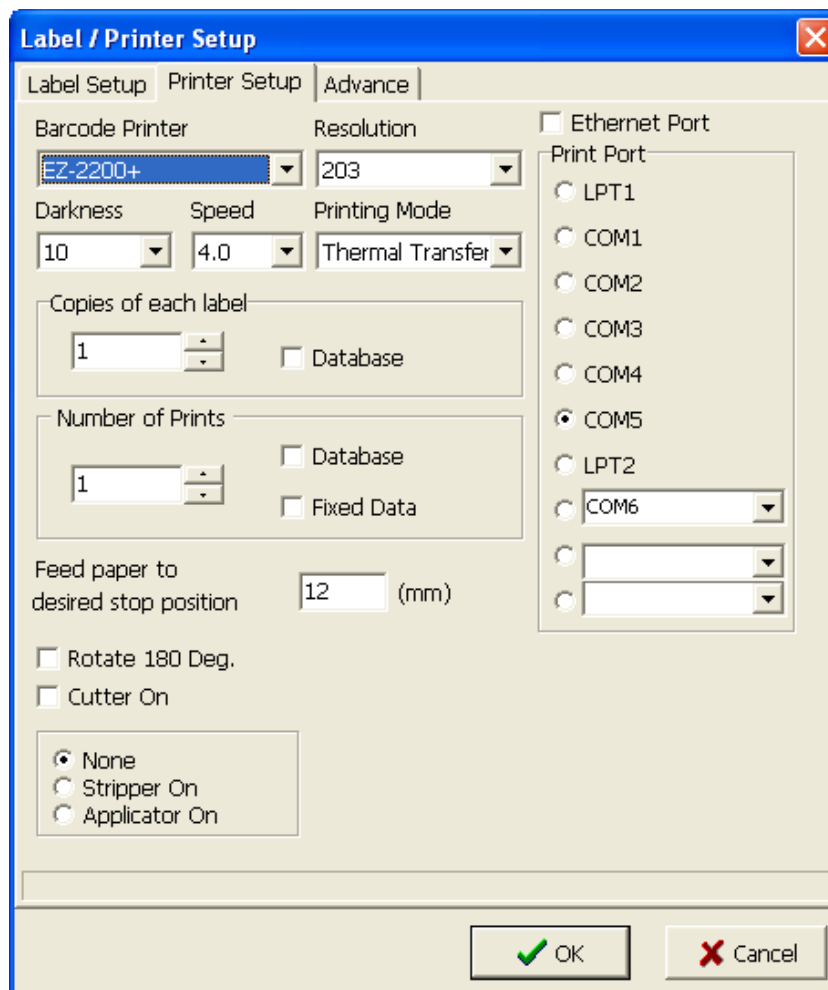
Opening a label

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 / Printer Setup

Label Setup | Printer Setup | Advance

Paper Dimensions

Paper Height: 100 (mm)

Paper Width: 100 (mm)

Left Margin (dot.): 0

Top Margin (dot.): 0

Paper Type

☒ Label with gap

☐ Plain paper

☐ Black mark label

Label with gap

Gap Length: 3 (mm)

Labels Across

Horizontal: 1

Hor. gap: 0 (mm)

Order: Copy

Vertical: 1

Ver. gap: 0 (mm)

Layout:

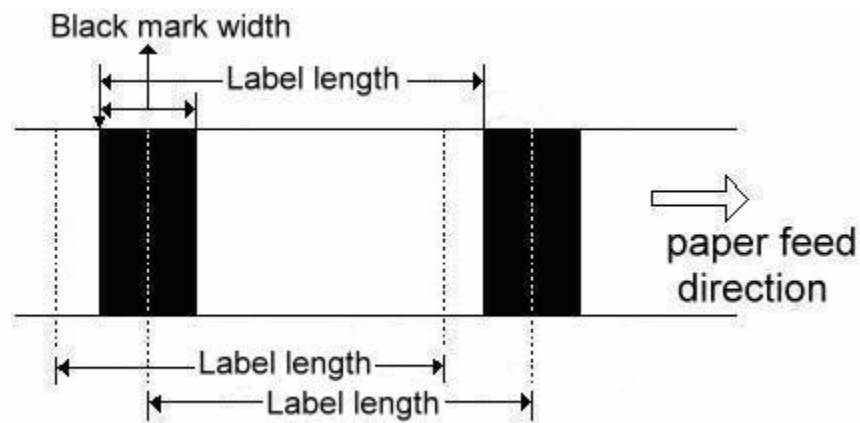
OK Cancel

- 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.

Black mark label

Black mark width: 3 (mm)

black mark to top of form position: +position outside 0 (mm)



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.

Label / Printer Setup

Label Setup | Printer Setup | **Advance**

PC's com port setting

Baud Rate: 9600

Parity: none

Data Length (bit): 8

Stop Bit: 1

The setting of COM port for PC should be same as printer.

OK Cancel

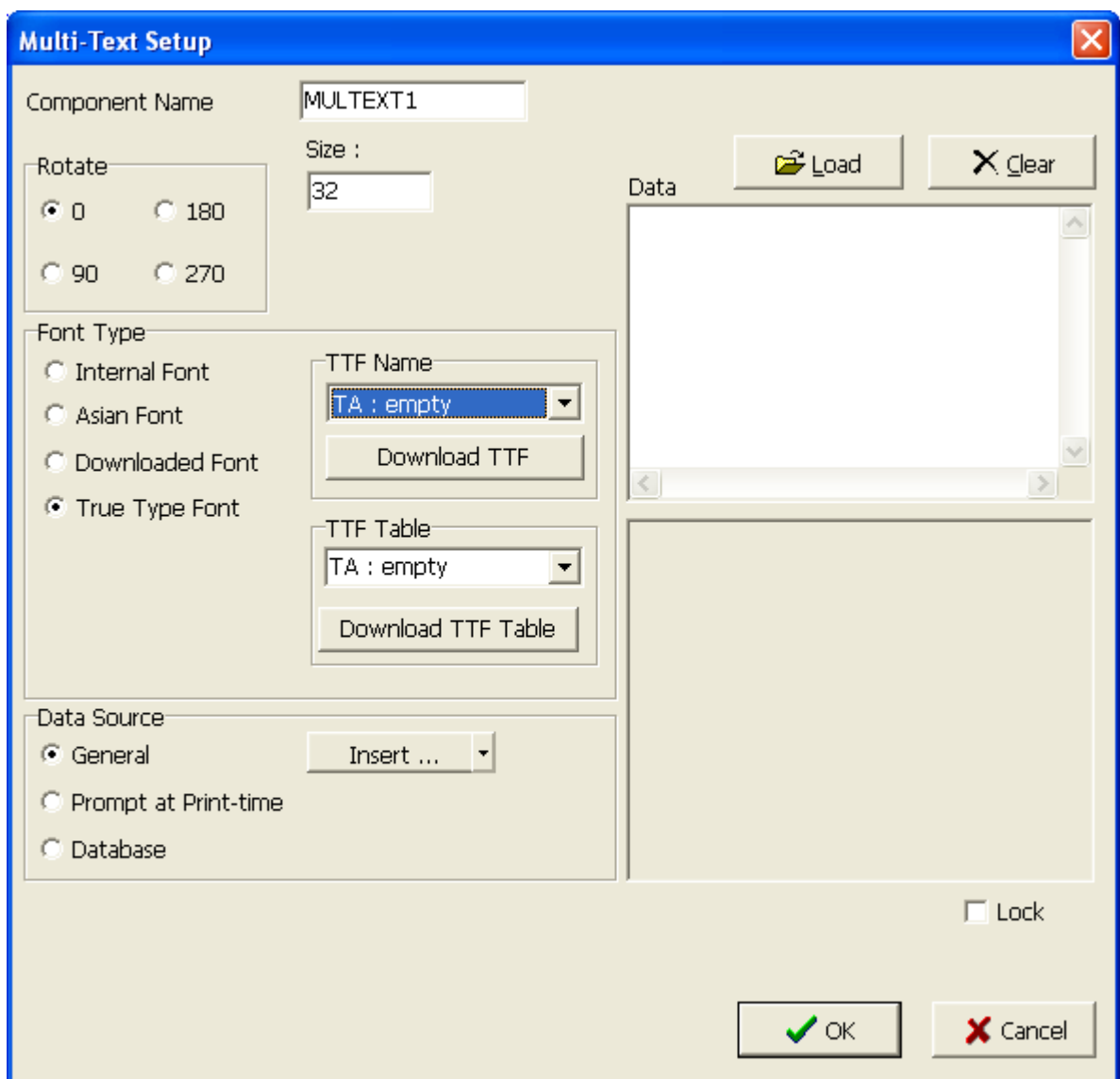
7: Inserting Text

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.




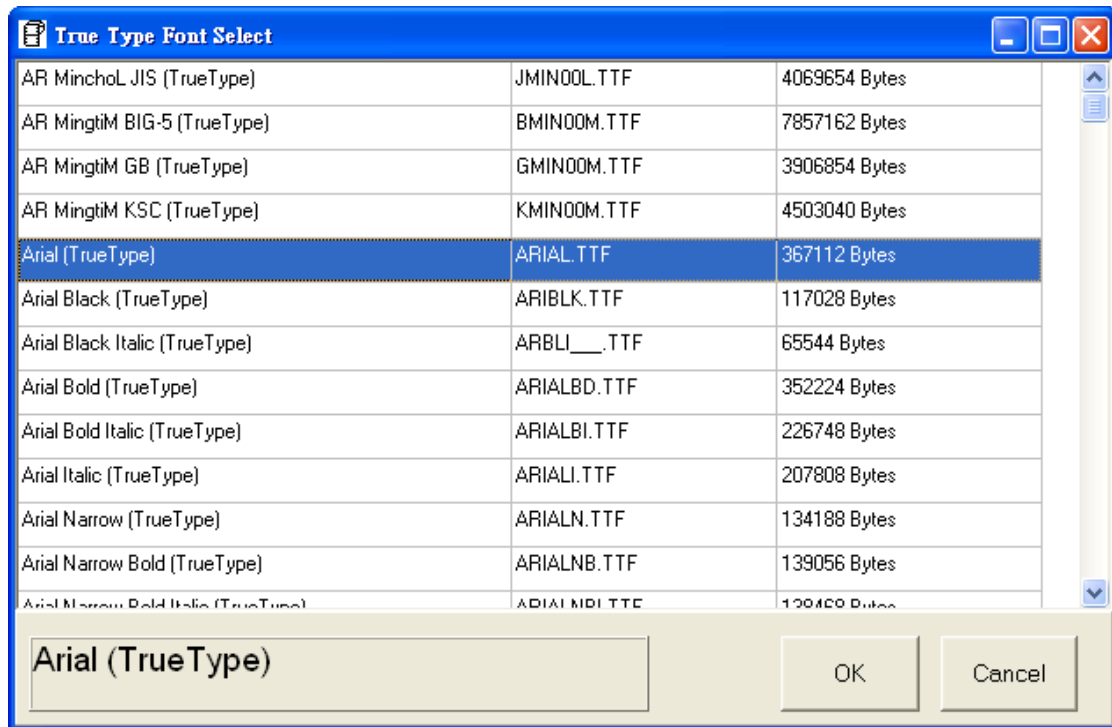
The image shows a 'Multi-Text Setup' dialog box with a blue title bar and a close button (X) in the top right corner. The dialog is divided into several sections:

- Component Name:** A text field containing 'MULTEXT1'.
- Rotate:** A group box containing four radio buttons: 0 (selected), 180, 90, and 270.
- Size:** A text field containing '32'.
- Font Type:** A group box containing four radio buttons: Internal Font, Asian Font, Downloaded Font, and True Type Font (selected).
- TTF Name:** A dropdown menu showing 'TA : empty' and a 'Download TTF' button.
- TTF Table:** A dropdown menu showing 'TA : empty' and a 'Download TTF Table' button.
- Data Source:** A group box containing three radio buttons: General (selected), Prompt at Print-time, and Database. Next to them is an 'Insert ...' button.
- Data:** A large text area on the right side of the dialog, currently empty. Above it are 'Load' and 'Clear' buttons.
- Lock:** A checkbox labeled 'Lock' at the bottom right.
- Buttons:** 'OK' and 'Cancel' buttons at the bottom right.

Download True Type Font

QLabel-IV supports True Type Font download function for EZ-PLUS / EZ-DT printers only.

1. Click .
2. On the Text Setup dialog box, select font type.
3. Select a True Type Font, and then click OK to start download process.




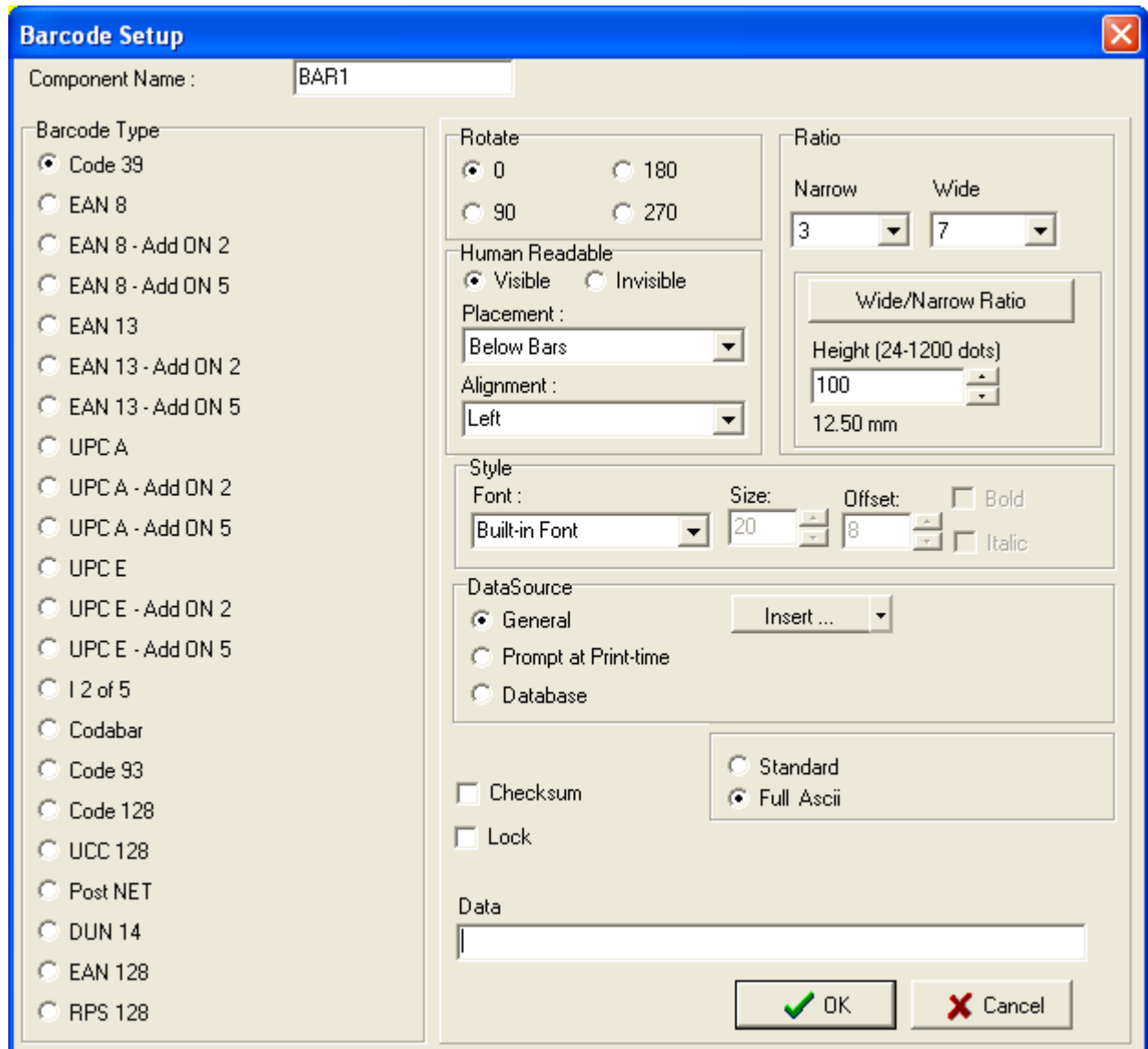
Insert a text with Window's Font

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 'Component Name' field is set to 'WINTTEXT1'. Under the 'Rotate' section, the '0' radio button is selected. The 'Data Source' section has the 'General' radio button selected. The 'Text String' area is empty. There are buttons for 'Font' and 'Change to Graphic'. At the bottom, there is a 'Lock' checkbox and 'OK' and 'Cancel' buttons.

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 Barcode Setup dialog box is shown with the following settings:


- Component Name:** BAR1
- Barcode Type:** Code 39 (selected)
- Rotate:** 0 (selected)
- Ratio:** Narrow: 3, Wide: 7
- Human Readable:** Visible (selected)
- Placement:** Below Bars
- Alignment:** Left
- Style:** Font: Built-in Font, Size: 20, Offset: 8
- DataSource:** General (selected)
- Checksum:** Full Ascii (selected)
- Data:** (empty text field)

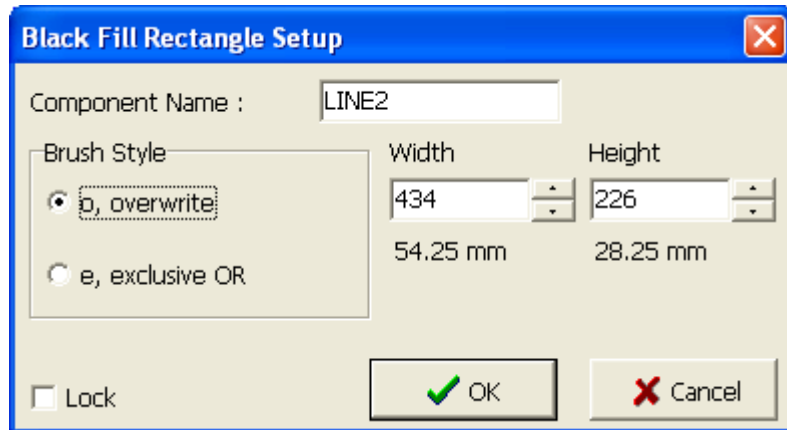
Buttons: OK, Cancel

*Note: QLabel-IV supports Application Identifier (AI) in EAN-128 barcode. For more information about how to use AI code in QLabel-IV, please refer to Chapter 22 "EAN -128 and Application Identifier".


9: Drawing Lines and Shapes

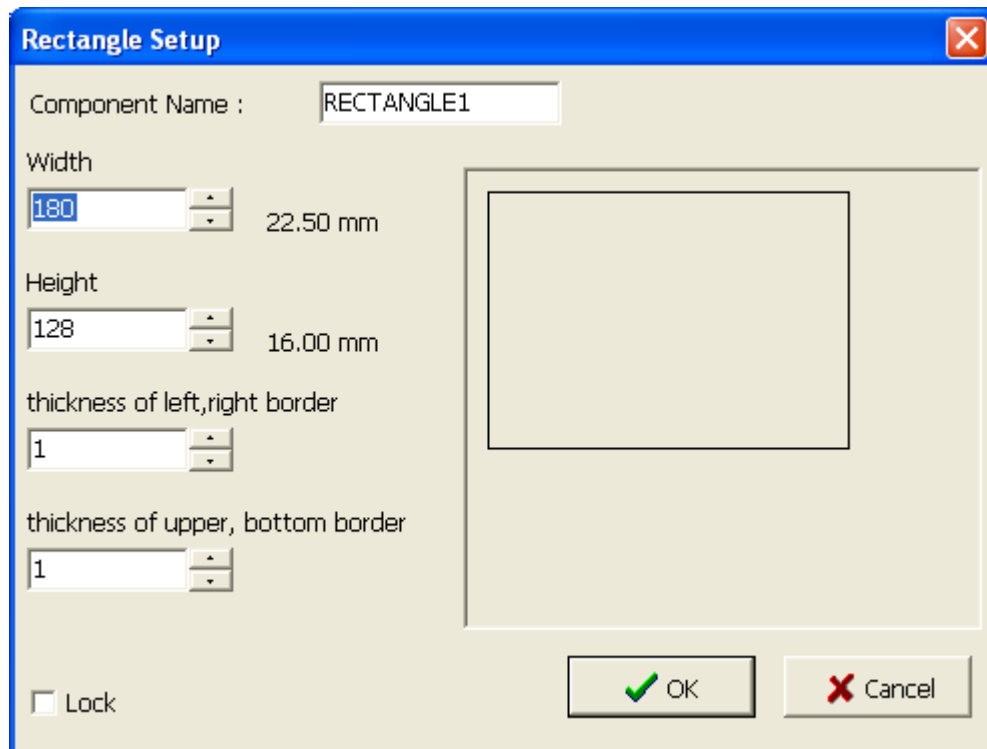
Drawing a straight line or box

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.




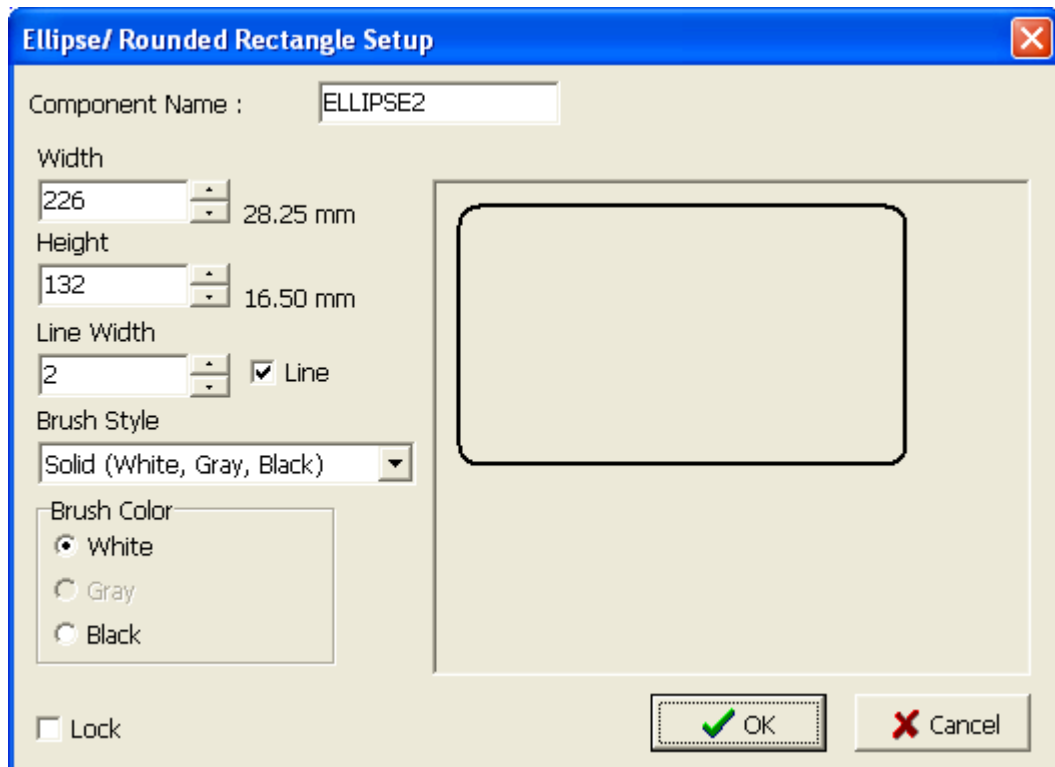
Drawing a square-corner rectangle or square

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.

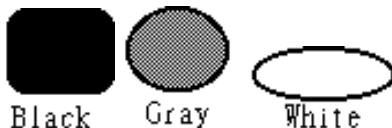


Drawing a round-corner rectangle or square


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.




Brush Color:

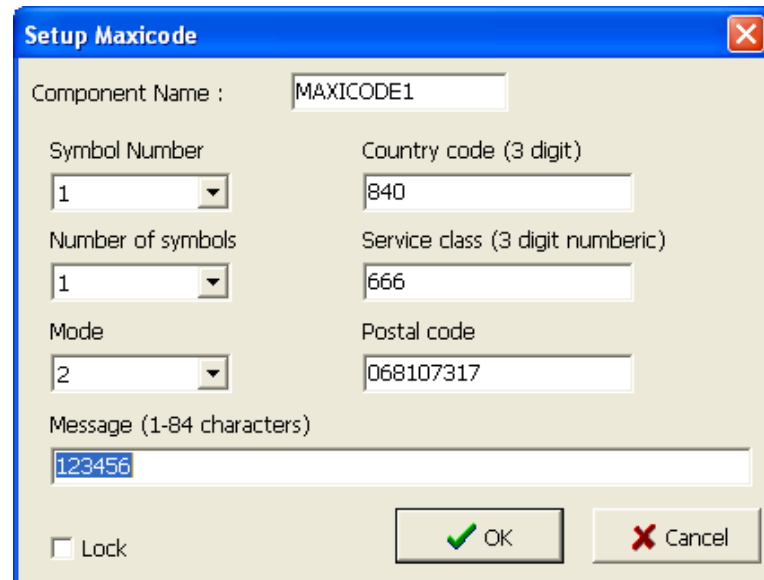


Drawing an ellipse or circle

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).

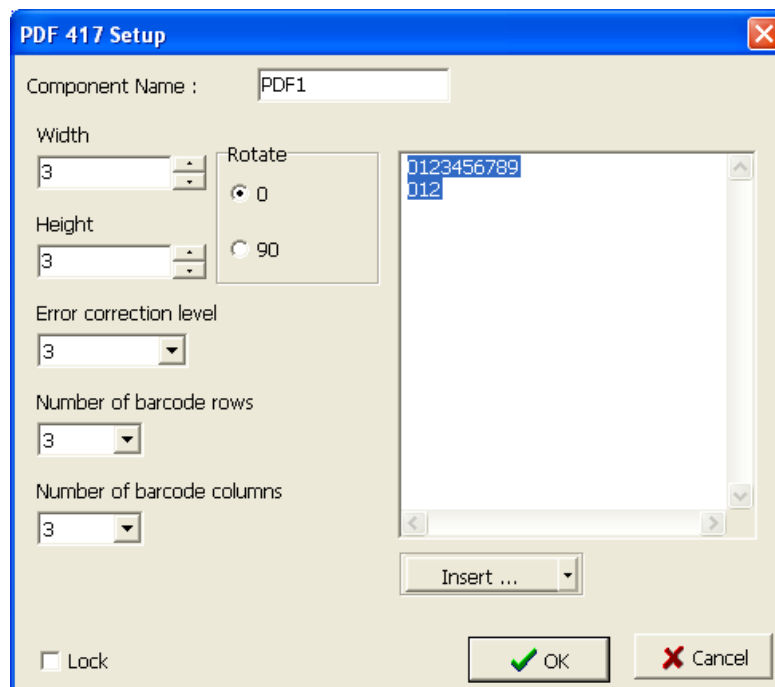


The 'Setup Maxicode' dialog box is shown with the following fields and values:

- 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, Cancel

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°.

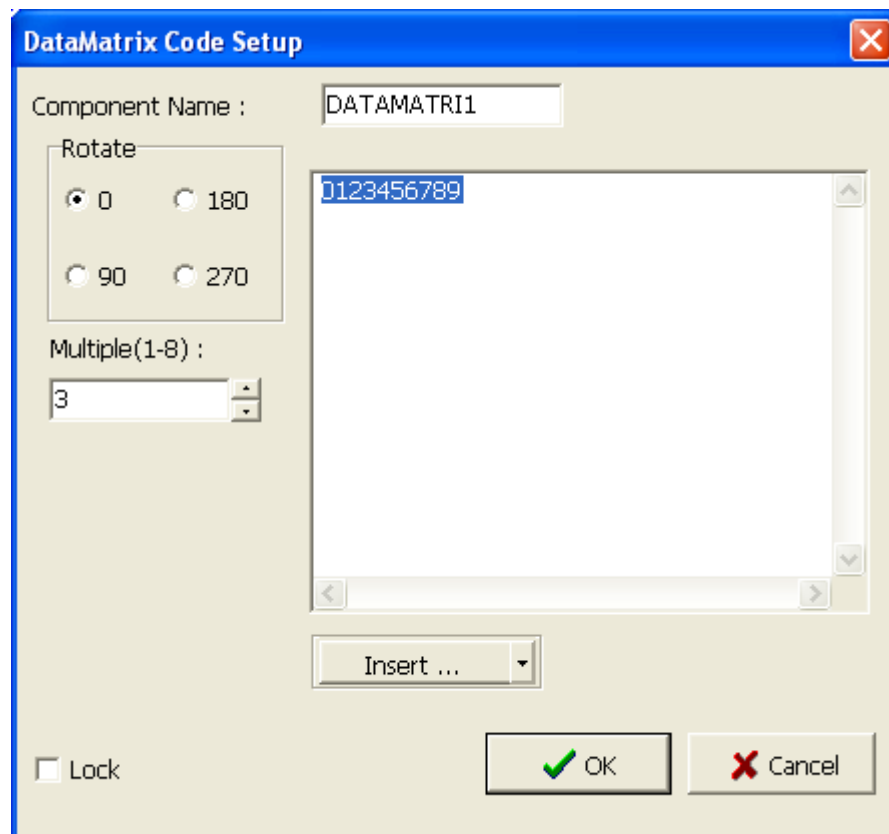


The 'PDF 417 Setup' dialog box is shown with the following fields and values:

- 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, Cancel

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.



The image shows a "DataMatrix Code Setup" dialog box. It has a blue title bar with a close button. The main area is light beige. At the top, "Component Name" is set to "DATAMATRI1". Below this is a "Rotate" section with four radio buttons: 0 (selected), 180, 90, and 270. Underneath is a "Multiple(1-8)" spinner box set to 3. To the right is a large text area containing the data "0123456789". Below the text area is an "Insert ..." button with a dropdown arrow. At the bottom left is a "Lock" checkbox. At the bottom right are "OK" and "Cancel" buttons with green and red checkmarks respectively.

Component Name : DATAMATRI1

Rotate

☒ 0 ☐ 180

☐ 90 ☐ 270

Multiple(1-8) : 3


0123456789

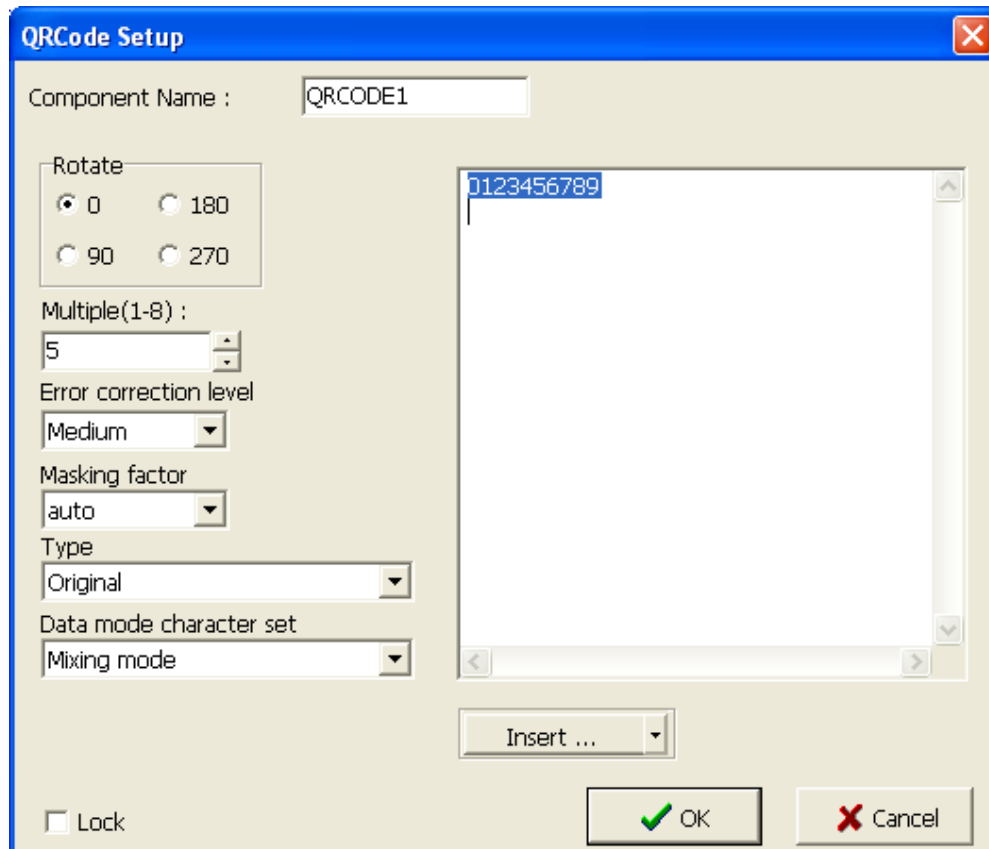
Insert ...

☐ Lock

OK Cancel


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.



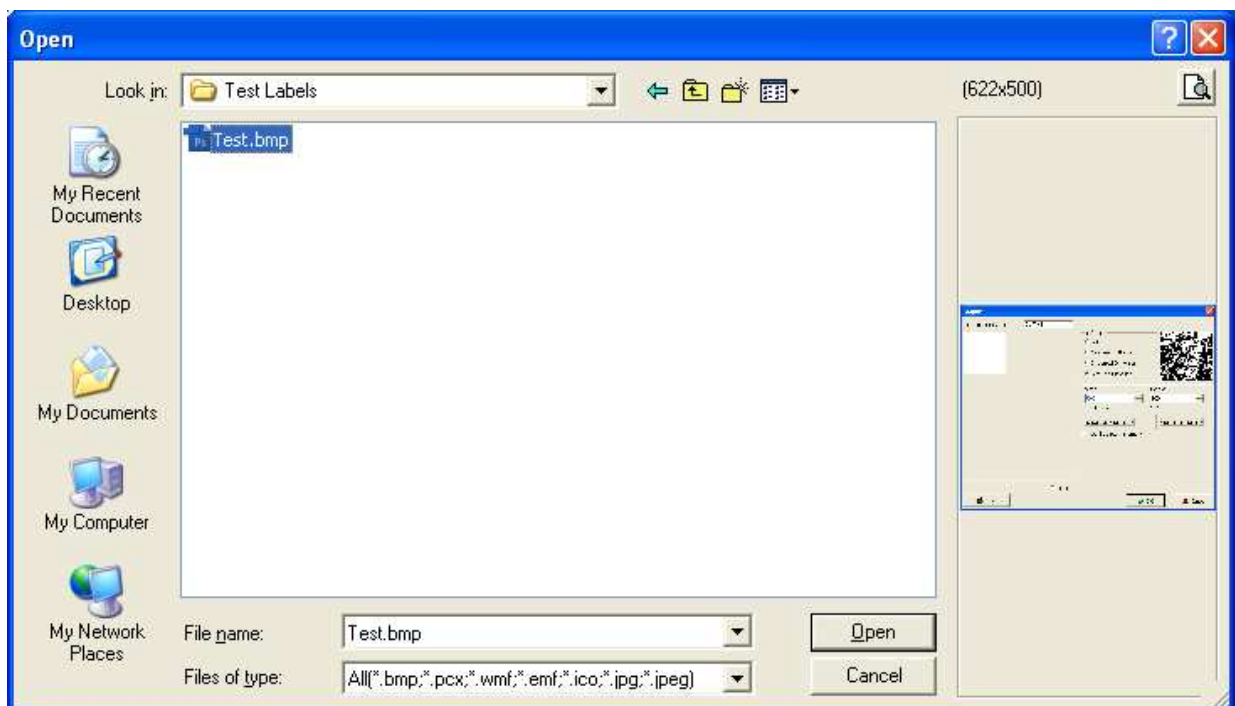
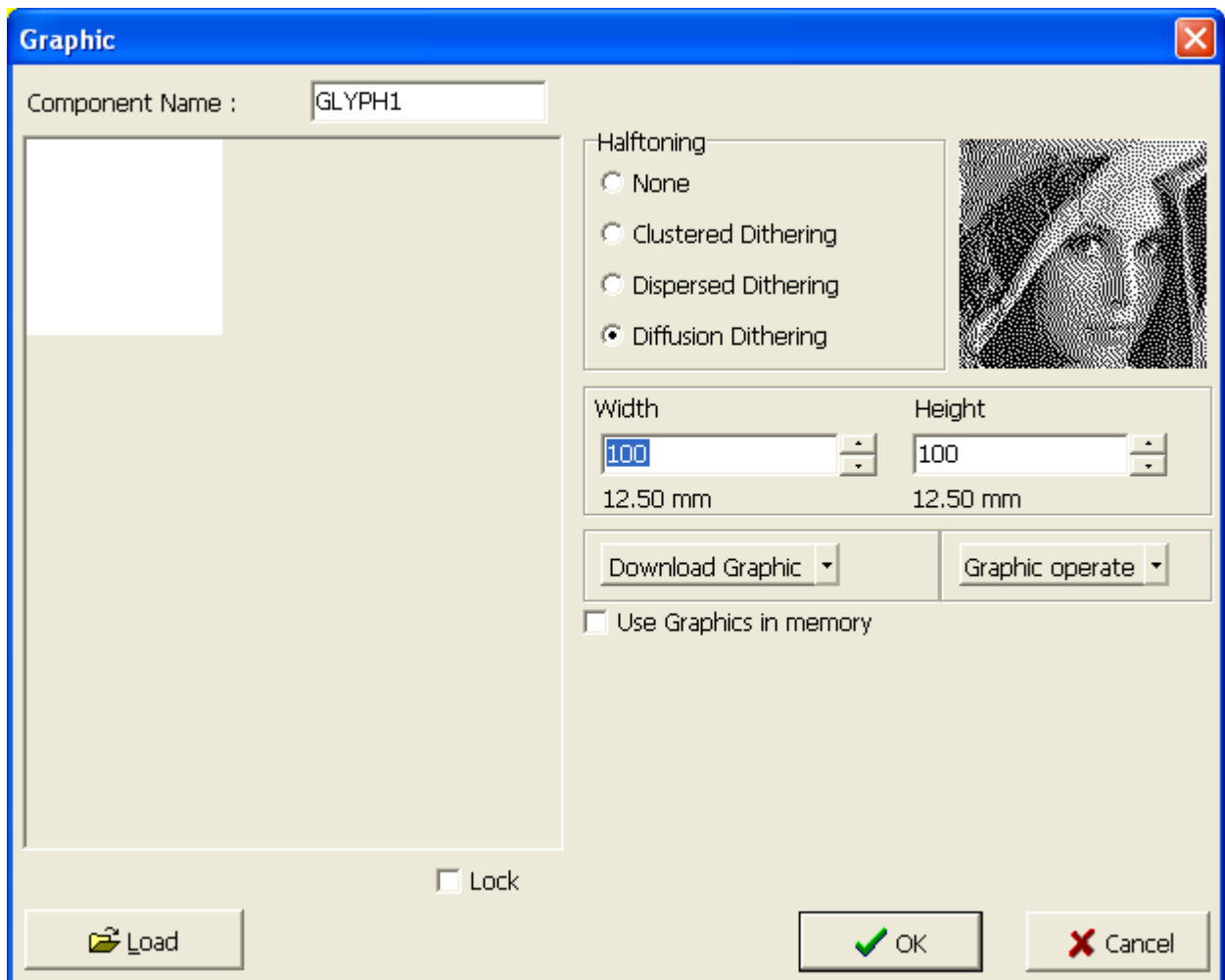
14: Inserting Graphics

Insert graphics from file



1. Click .
2. Select a halftoning of dithering you would like to create in a label.
3. Input width, height you would like to have a graphic.
4. On the Graphic dialog box, click Load.
5. In the open dialog, go to "Look in"; select the file you would like to open.
6. Click the label name, and then click "Open".
7. Alternatively, double-click the folder that contains the label you want to open.
8. 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

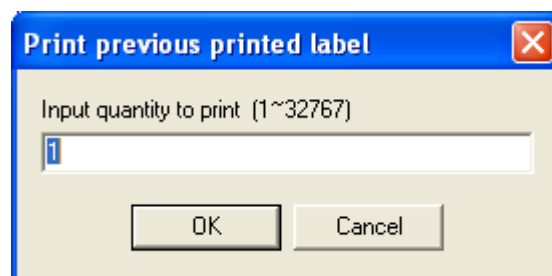
1. Click .
2. All objects in the Label Edit Area will be locked, and not be able to move nor edit.
3. Click  again to unlock objects.

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:

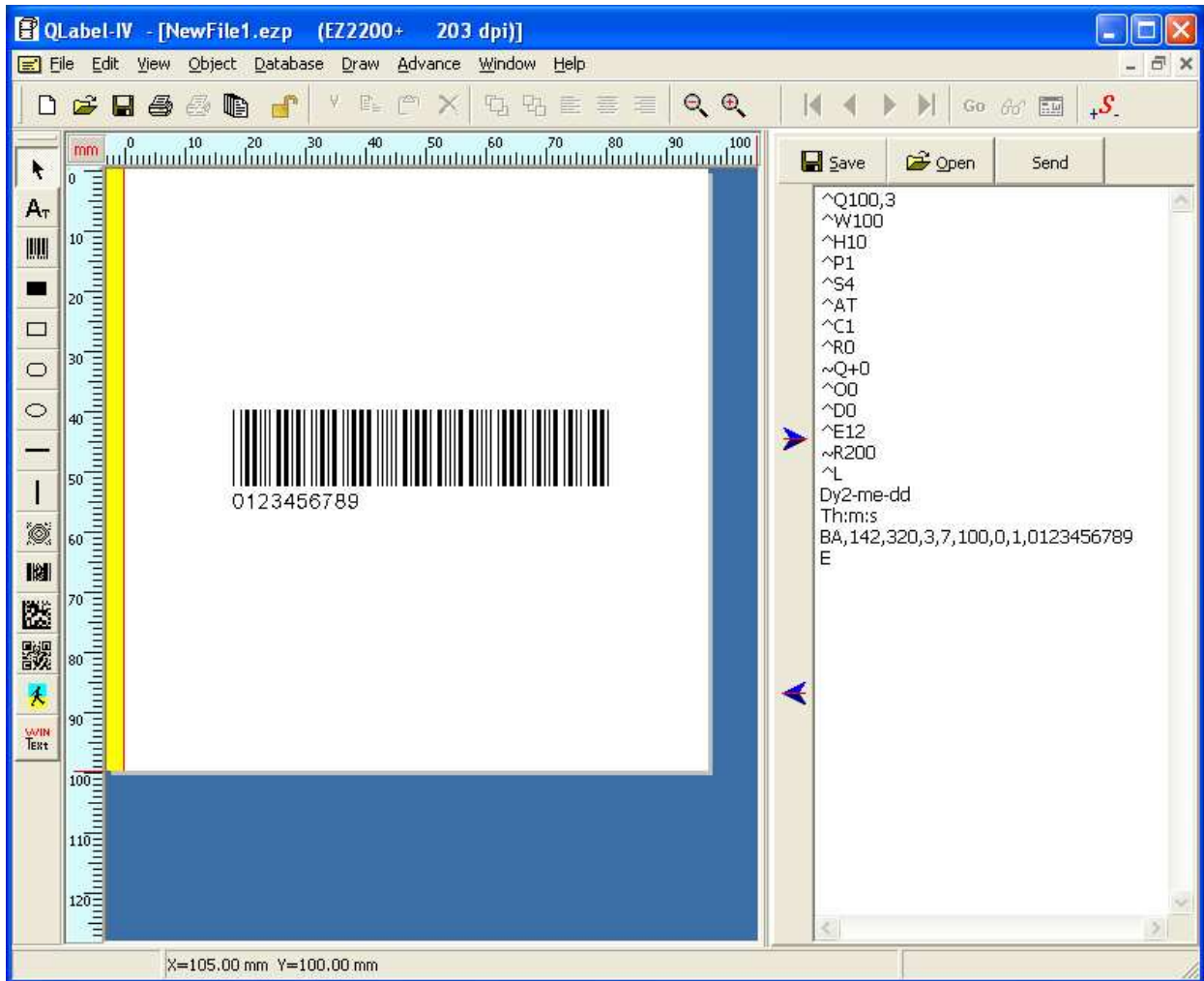
- If label has serial number, you can use this method to keep on printing.

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”.

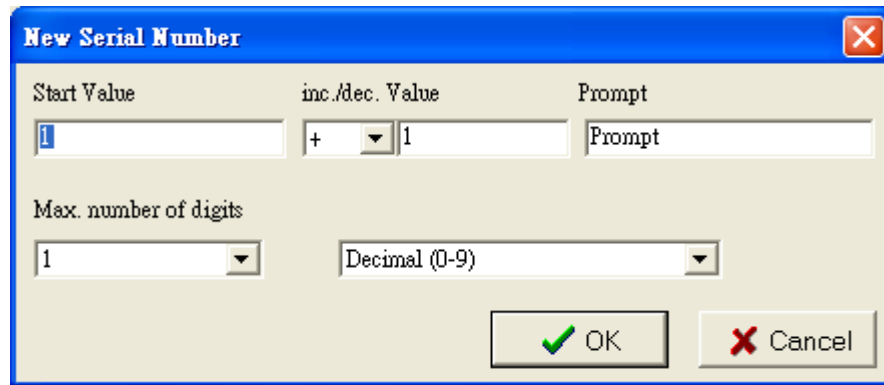
Advance programmer could edit commands and send commands such as COPY, PRINT, TYPE etc to printers in DOS mode.



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.




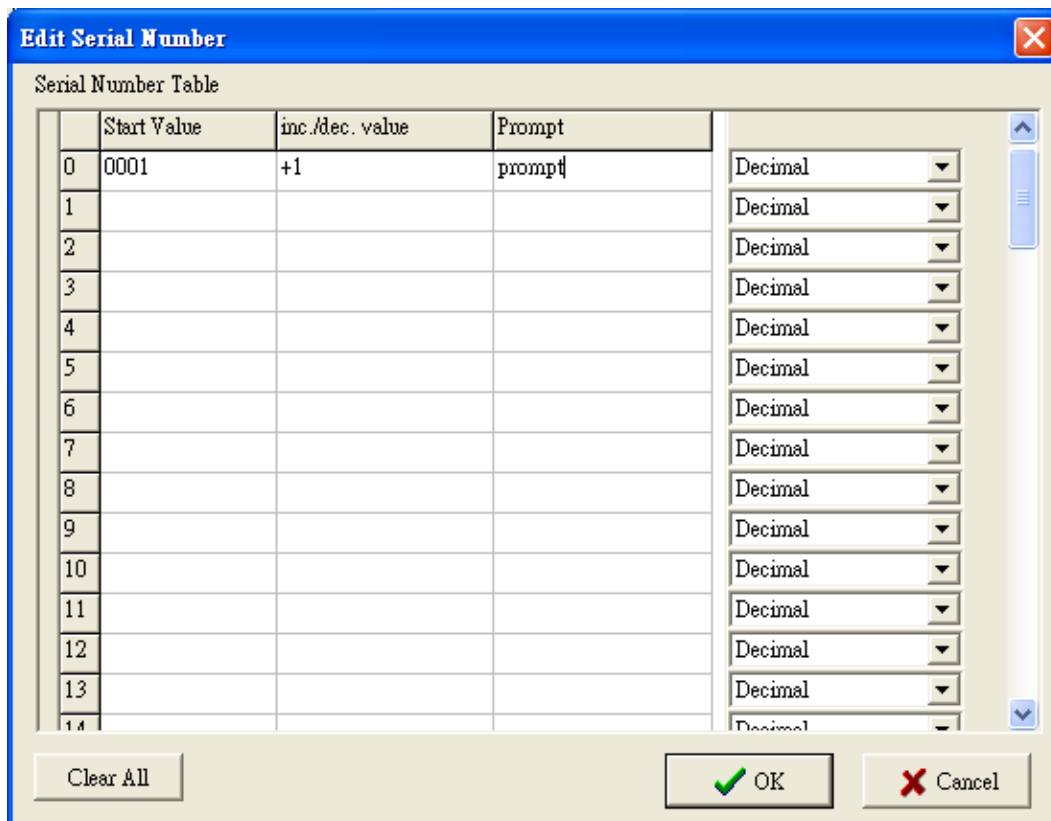
New Serial Number

Start Value: inc./dec. Value: Prompt:

Max. number of digits:

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".



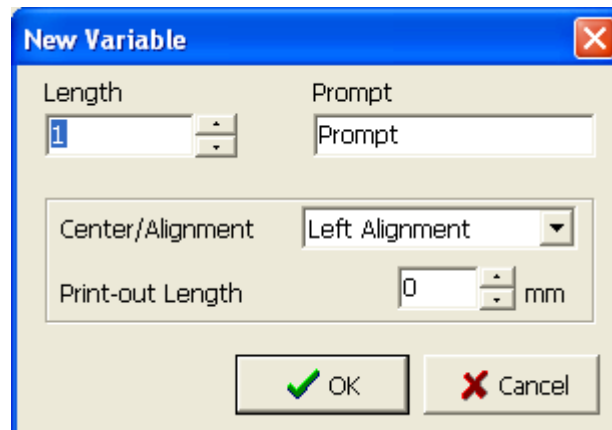
Edit Serial Number

Serial Number Table

	Start Value	inc./dec. value	Prompt	
0	0001	+1	prompt	Decimal
1				Decimal
2				Decimal
3				Decimal
4				Decimal
5				Decimal
6				Decimal
7				Decimal
8				Decimal
9				Decimal
10				Decimal
11				Decimal
12				Decimal
13				Decimal
14				Decimal

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.

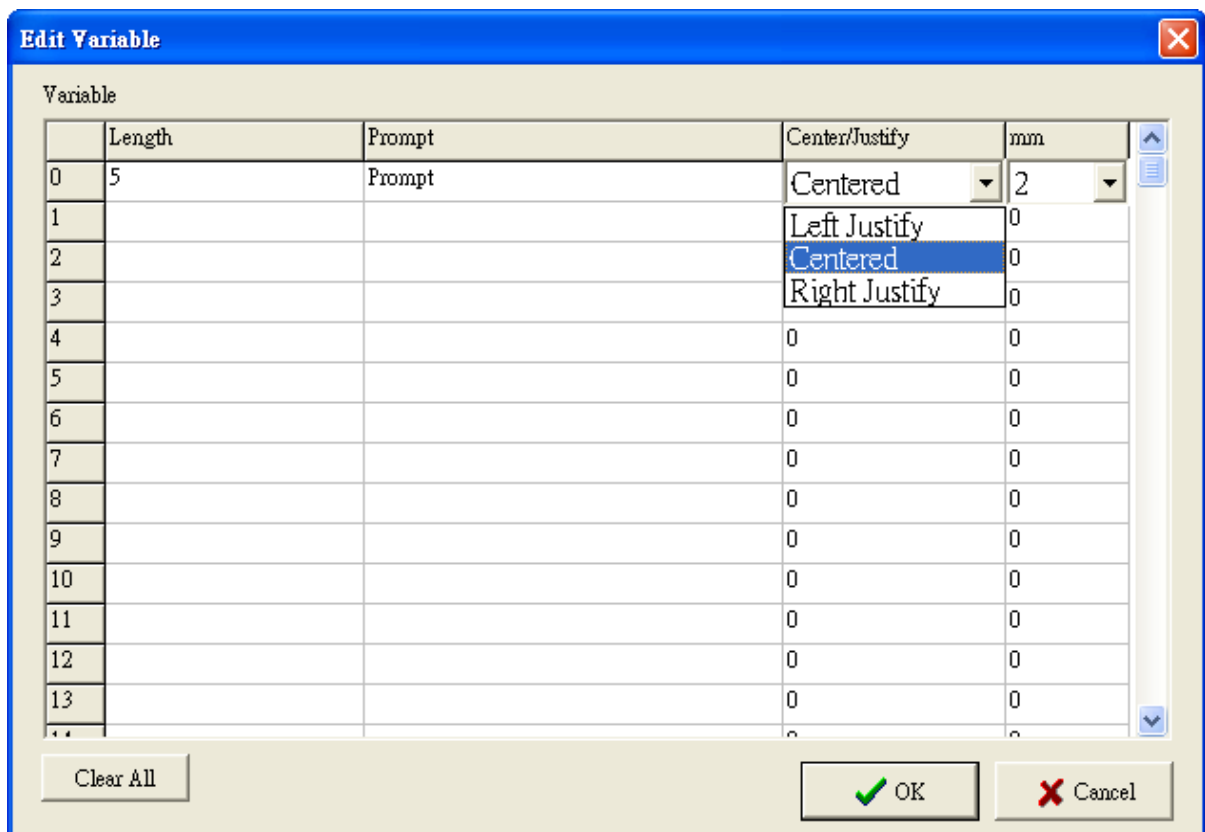


The "New Variable" dialog box is shown. It has a blue title bar with a close button. The main area is light beige. It contains the following fields and controls:

- Length:** A text box with the value "1" and a small up/down arrow button to its right.
- Prompt:** A text box containing the word "Prompt".
- Center/Alignment:** A dropdown menu currently showing "Left Alignment".
- Print-out Length:** A text box with the value "0" and a small up/down arrow button to its right, followed by the unit "mm".
- Buttons:** At the bottom, there are two buttons: "OK" with a green checkmark icon and "Cancel" with a red X icon.

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 "Edit Variable" dialog box is shown. It has a blue title bar with a close button. The main area is light beige. It contains the following elements:

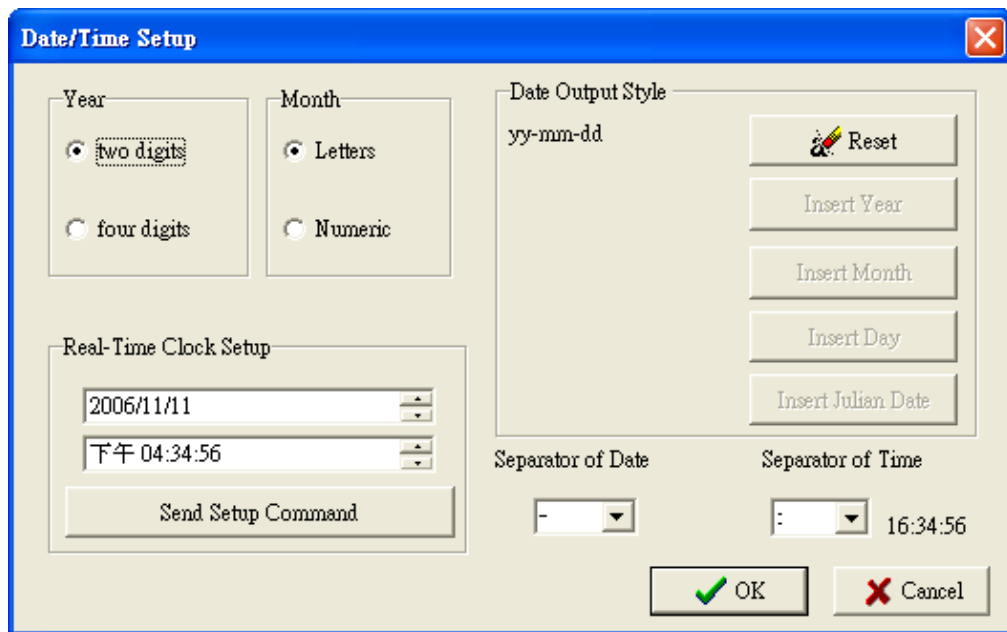
- Variable:** A label above a table.
- Table:** A table with 5 columns: an index column, Length, Prompt, Center/Justify, and mm. The first row (index 0) has values: 5, Prompt, Centered, 2. The other rows (indices 1-13) are empty. A context menu is open over the "Centered" value in the first row, showing options: Left Justify, Centered (highlighted), and Right Justify.
- Buttons:** At the bottom, there are three buttons: "Clear All", "OK" with a green checkmark icon, and "Cancel" with a red X icon.

	Length	Prompt	Center/Justify	mm
0	5	Prompt	Centered	2
1			Left Justify	0
2			Centered	0
3			Right Justify	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.

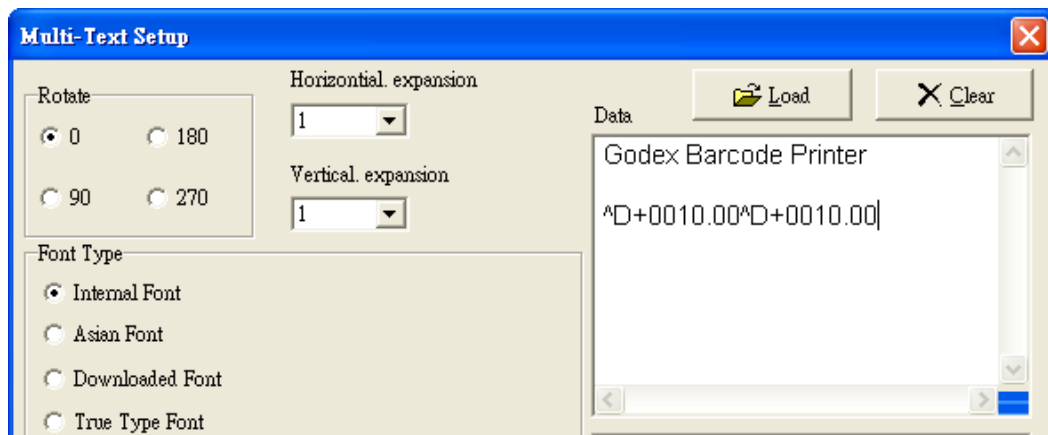


The "Date/Time Setup" dialog box is used to configure the printer's date and time. It features a blue title bar and a close button (X) in the top right corner. The main area is divided into several sections:

- Year:** Radio buttons for "two digits" (selected) and "four digits".
- Month:** Radio buttons for "Letters" (selected) and "Numeric".
- Date Output Style:** A text field showing "yy-mm-dd".
- Real-Time Clock Setup:** Two text fields for date and time. The date field shows "2006/11/11" and the time field shows "下午 04:34:56". Below these is a "Send Setup Command" button.
- Reset:** A button with a reset icon and the text "Reset".
- Insert Year, Insert Month, Insert Day, Insert Julian Date:** Four buttons for inserting specific date components.
- Separator of Date:** A dropdown menu showing a hyphen (-).
- Separator of Time:** A dropdown menu showing a colon (:).
- OK and Cancel:** Buttons at the bottom right, with "OK" having a green checkmark and "Cancel" having a red X.

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.



The "Multi-Text Setup" dialog box is used to configure text objects. It features a blue title bar and a close button (X) in the top right corner. The main area is divided into several sections:

- Rotate:** Radio buttons for "0" (selected), "180", "90", and "270".
- Horizontal expansion:** A dropdown menu showing "1".
- Vertical expansion:** A dropdown menu showing "1".
- Font Type:** Radio buttons for "Internal Font" (selected), "Asian Font", "Downloaded Font", and "True Type Font".
- Data:** A text field containing the command string "^D+0010.00^D+0010.00|". Above this field are "Load" and "Clear" buttons.

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.

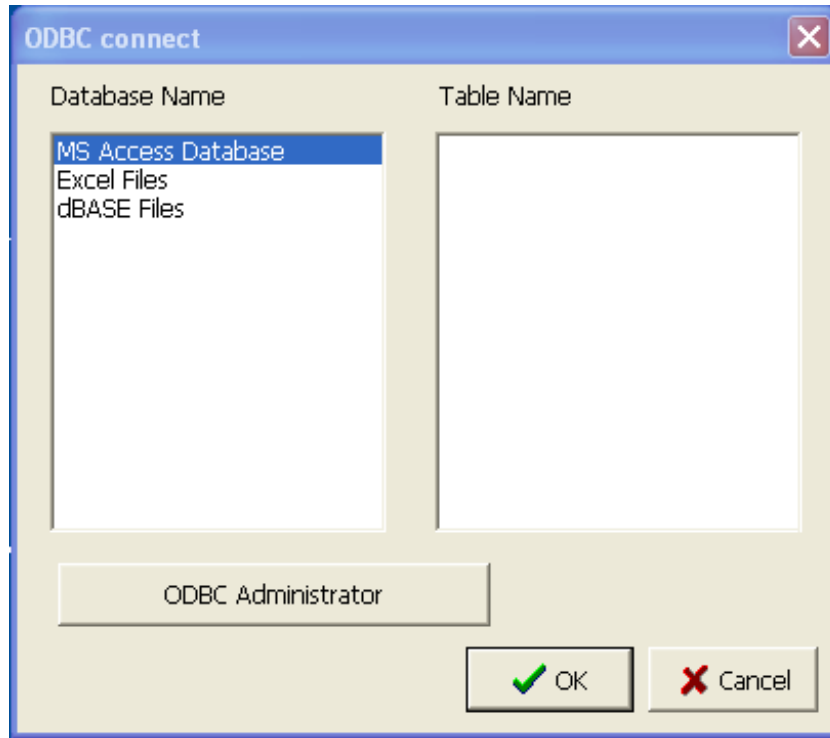


Note.

- 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.

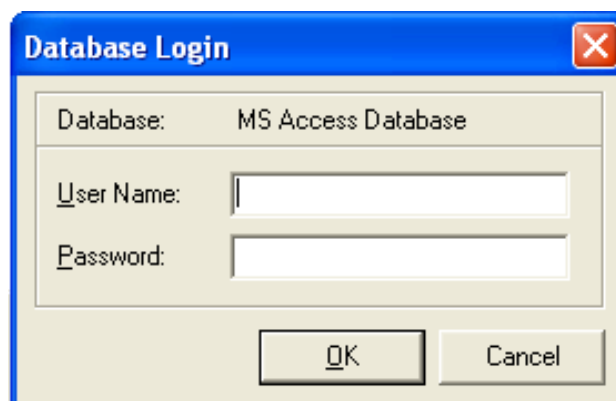
Use ODBC Connection

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.



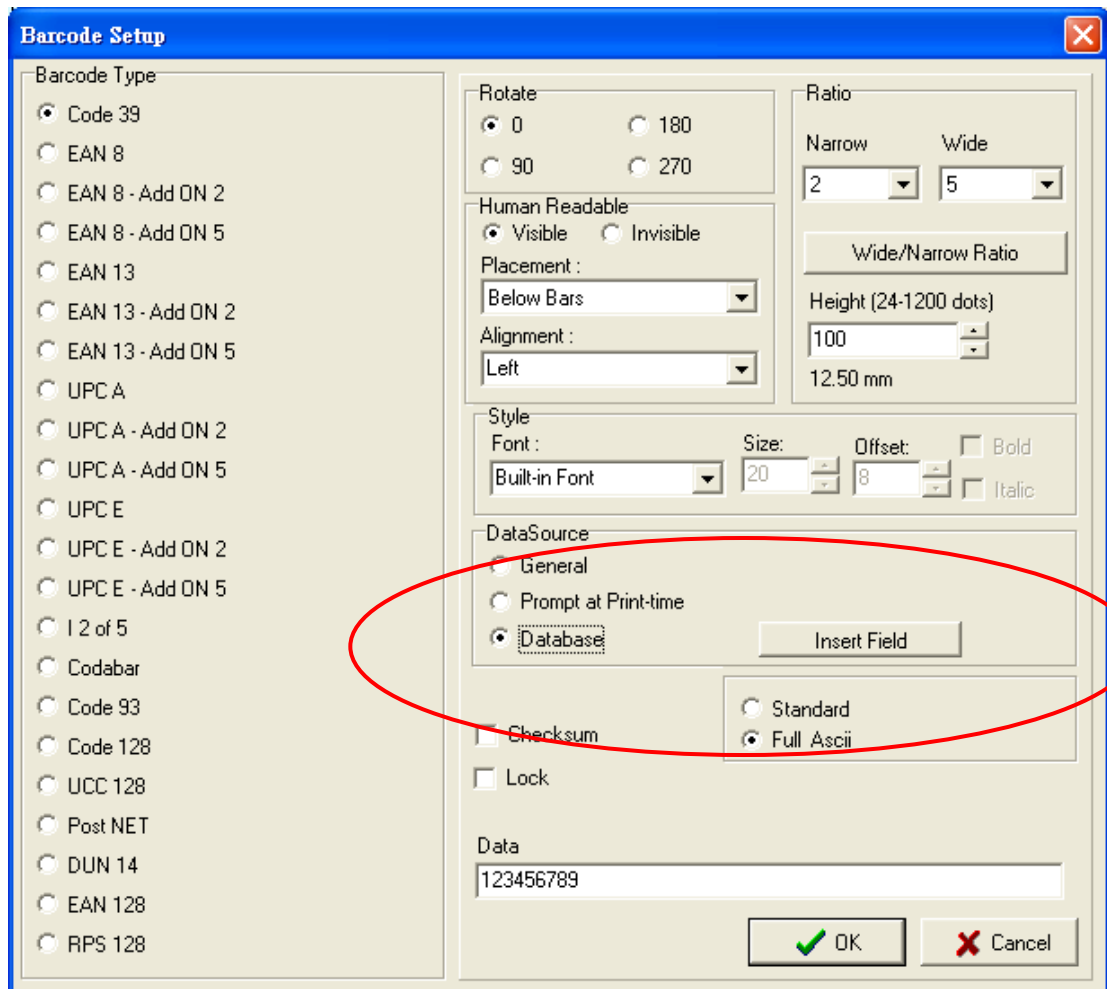
Note.

- 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.

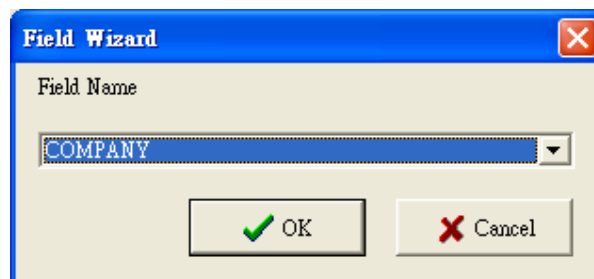


Database operation

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.



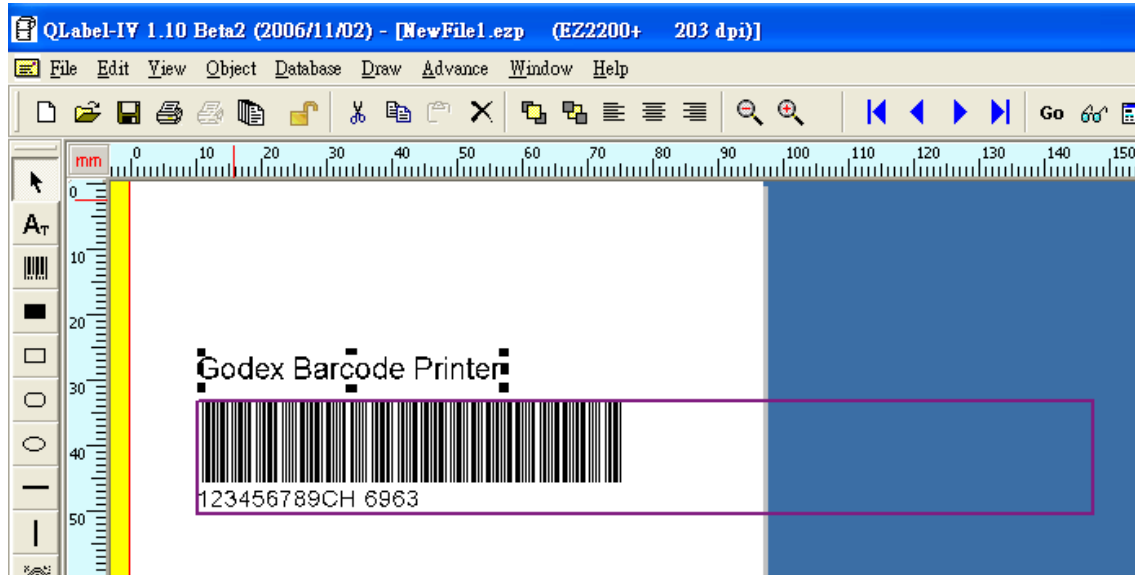
The **Barcode Setup** dialog box is shown. It has a list of barcode types on the left, including Code 39, EAN 8, EAN 13, UPCA, and others. The **DataSource** section is circled in red, showing the **Database** option selected. Other sections include **Rotate** (0, 90, 180, 270), **Human Readable** (Visible, Invisible), **Placement** (Below Bars), **Alignment** (Left), **Ratio** (Narrow: 2, Wide: 5), **Style** (Font: Built-in Font, Size: 20, Offset: 8), **Checksum** (Standard, Full Ascii), and **Lock**. The **Data** field contains the text "123456789". Buttons for **OK** and **Cancel** are at the bottom right.



The **Field Wizard** dialog box is shown. It has a **Field Name** dropdown menu with "COMPANY" selected. Buttons for **OK** and **Cancel** are at the bottom.

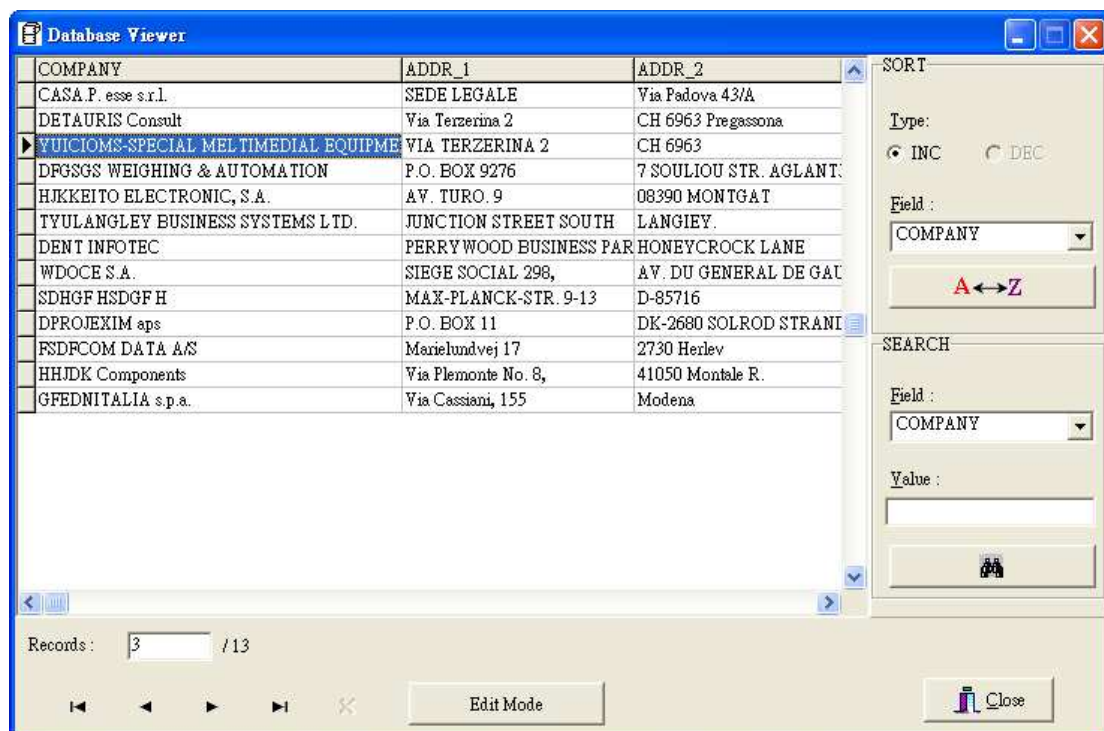
Frame Boarder of Database

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

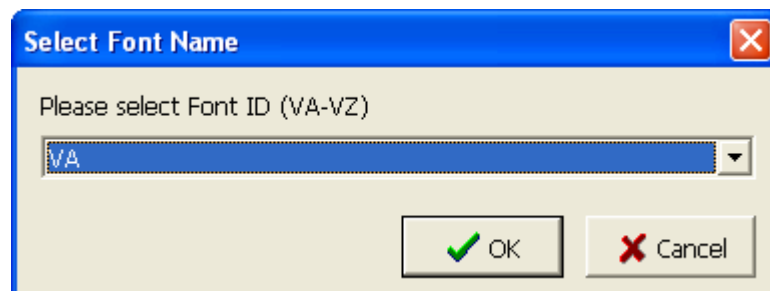
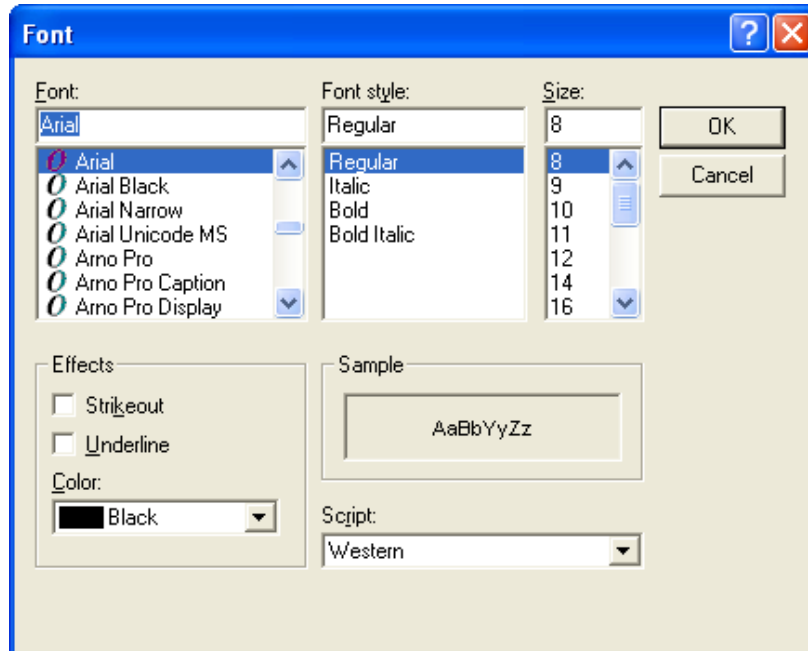
1. Go to Database menu, select "Database Viewer".
2. In the Database, you can sort a data by an alphabetical order or search data value on the database.
3. Click "Edit Mode" to edit the database.



21. Download Graphic, Label and Font

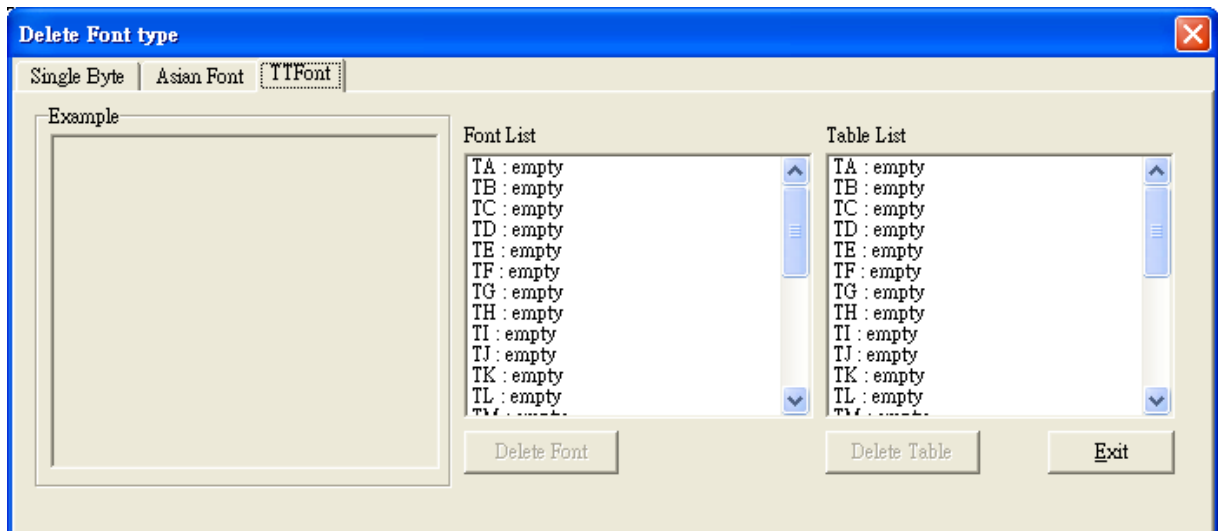
Download Font

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”.

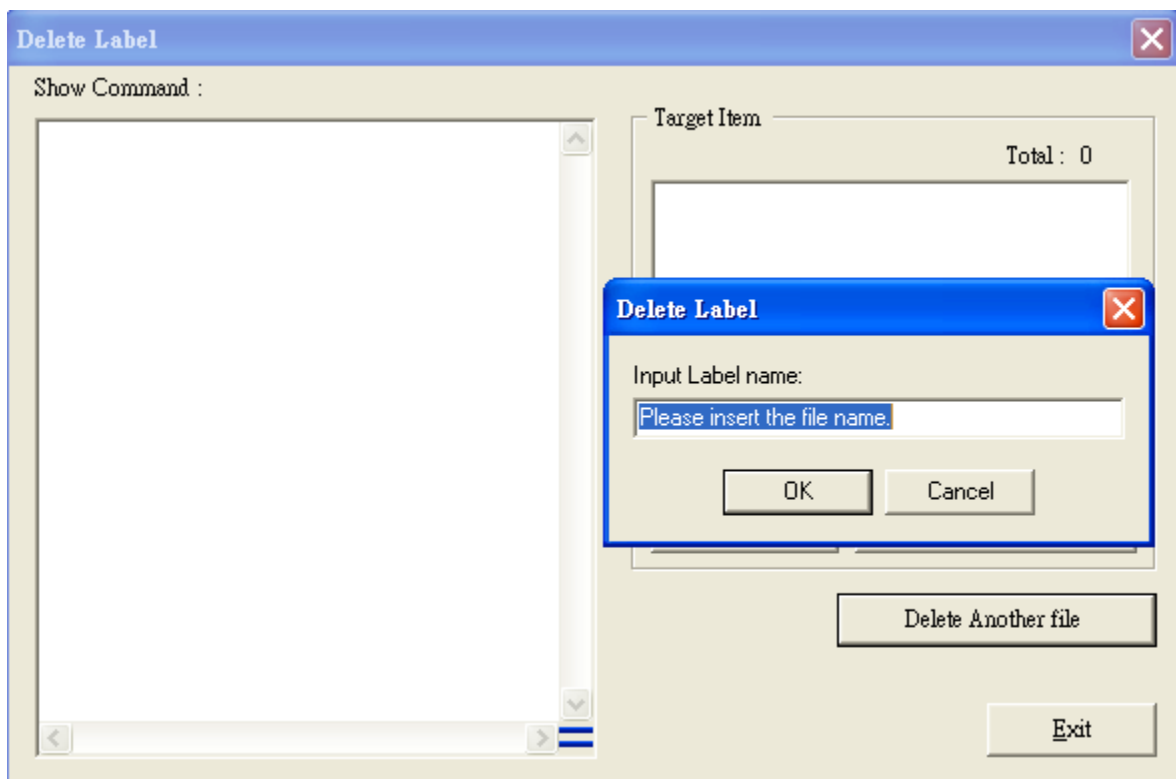
Note.

- 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”.

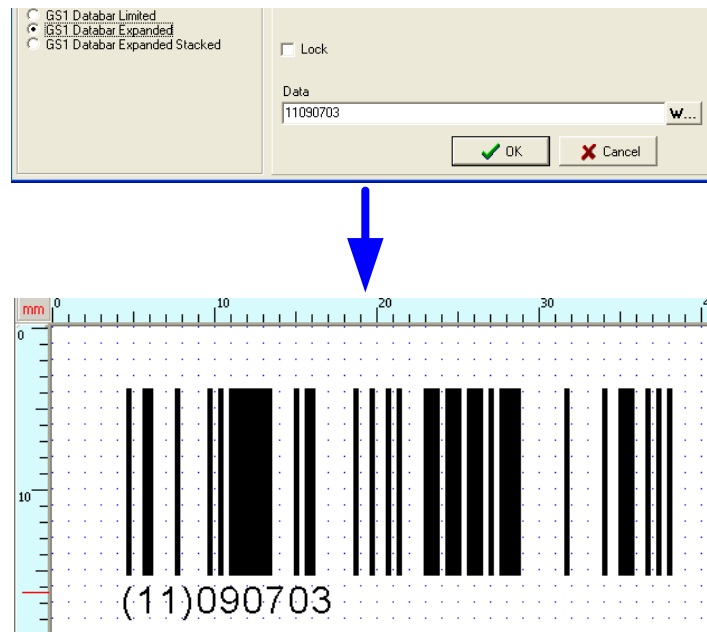


22. EAN -128 / GS1 Databar and Application Identifier

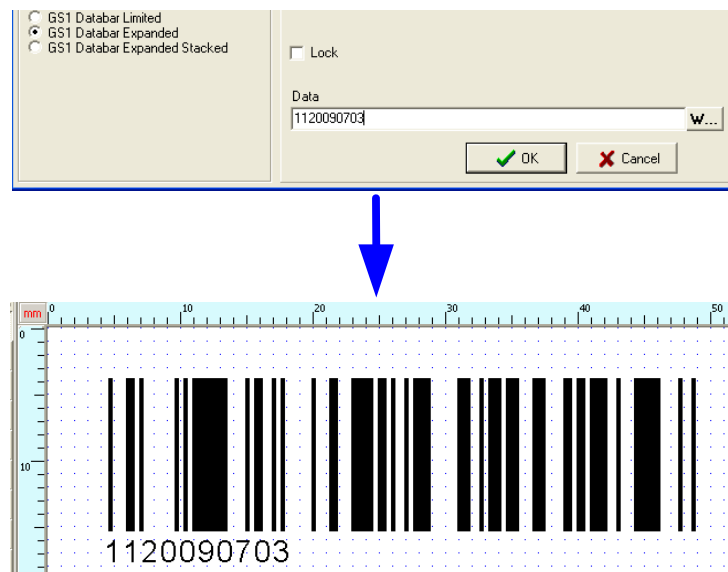
Input the Application Identifier in EAN-128 Barcode

QLabel-IV supports Application Identifier (AI) in EAN-128 barcode. AI is a series of codes that can contain pre-defined data type and actual data content in single data string. Each AI has 2 ~ 4 digits numeric Prefix in front of the data to tell what the data means. For example, (11) represents the production date that should conform to the format of "n2+n6". "n2" refers to the Application Identifier "11" and "n6" refers to the actual data content in "YYMMDD" format. There are more than 100 Application Identifiers are defined in similar way. For more details about Application Identifiers, please refer to the specification documentation of Application Identifiers.

When inputting data with barcode type of EAN-128, QLabel-IV will check whether the input data conform to the rule of AI. If the input data is following one of the AI definitions, QLabel-IV will then automatically bracket the Application Identifier in human readable text (the actual barcode data remains the same). For example, input "11090227" in data field, QLabel-IV will transfer it to "(11)090227" since it conform to the "n2+n6" rule of "(11) production date".



If the input data is "1120090227", QLabel-IV will determine that it is not Application Identifier because it begins with Application Identifier "11" but not in "n2+n6" format. Therefore, QLabel-IV will not transfer the input data to the display type of AI.



On the Barcode Setup page of EAN 128, GS1 Databar Expanded and GS1 Databar Expanded Stacked barcodes, there is an "AI Wizard" to help user entering the data content of AI. To enter the "AI Wizard" setup page, please click "W..." button on the Barcode Setup page.

☒ GS1 Databar Expanded
☐ GS1 Databar Expanded Stacked

☐ Lock

Data W...

On the left side of "AI Wizard" page, there is a list of AI codes to show the Identifier and description of each AI code. Click one of AI codes from the list, and then a sample content to show the AI code format will be displayed on the "Sample" box.

AI Wizard

Application Identifiers

AI	Description
00	SSCC-18 Serial Shipping Container Code
01	SCC-14 Shipping Container Code(GTIN)
02	Item Number of Goods Contained Logistic Unit(GTIN)
10	Batch or Lot Number
11	Production Data(YYMMDD)
12	Due Date(YYMMDD)
13	Packaging Date(YYMMDD)
15	Best By Date(Quality)(YYMMDD)
17	Expiration Date(Safety)(YYMMDD)
20	Product Variant
21	Serial Number
22	HIBC-Quantity, Expiration Date, and Lot Number
23	Lot Number(Transition Use)
240	Additional Product Identification Assigned by the Manufacturer
241	Customer Part Number
250	Secondary Serial Number
251	Reference to Source Entity
253	EAN.UCC Global Document Type Identifier(GDTI)
30	Variable Count
310	Net Weight(Kilograms)
311	Length or 1st Dimension(Meters)
312	Width, Diameter or 2nd Dimension(Meters)
313	Depth, Thickness, Height or 3rd Dimension(Meters)
314	Area(square Meters)
315	Net Volume(Liters)
316	Net Volume(Cubic Meters)
320	Net Weight(Pounds)
321	Length or 1st Dimension(Inches)
322	Length or 1st Dimension(Feet)

Sample: (11)090423

Check Data:

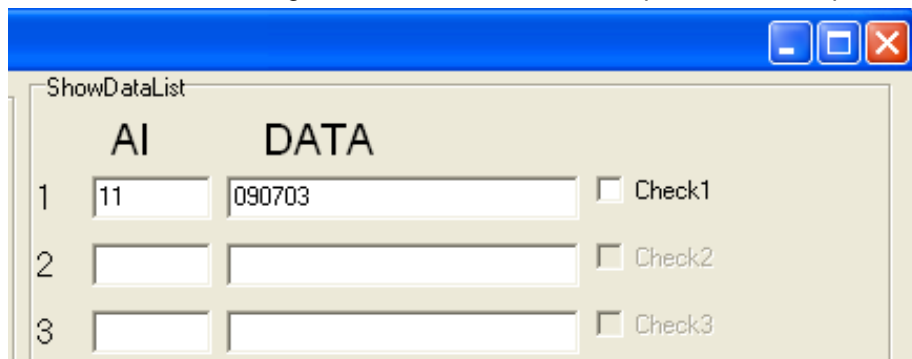
OK Cancel

ShowDataList

AI	DATA	
1	<input type="text"/>	<input type="checkbox"/> Check1
2	<input type="text"/>	<input type="checkbox"/> Check2
3	<input type="text"/>	<input type="checkbox"/> Check3
4	<input type="text"/>	<input type="checkbox"/> Check4
5	<input type="text"/>	<input type="checkbox"/> Check5
6	<input type="text"/>	<input type="checkbox"/> Check6
7	<input type="text"/>	<input type="checkbox"/> Check7
8	<input type="text"/>	<input type="checkbox"/> Check8
9	<input type="text"/>	<input type="checkbox"/> Check9
10	<input type="text"/>	<input type="checkbox"/> Check10
11	<input type="text"/>	<input type="checkbox"/> Check11
12	<input type="text"/>	<input type="checkbox"/> Check12
13	<input type="text"/>	<input type="checkbox"/> Check13
14	<input type="text"/>	<input type="checkbox"/> Check14
15	<input type="text"/>	<input type="checkbox"/> Check15

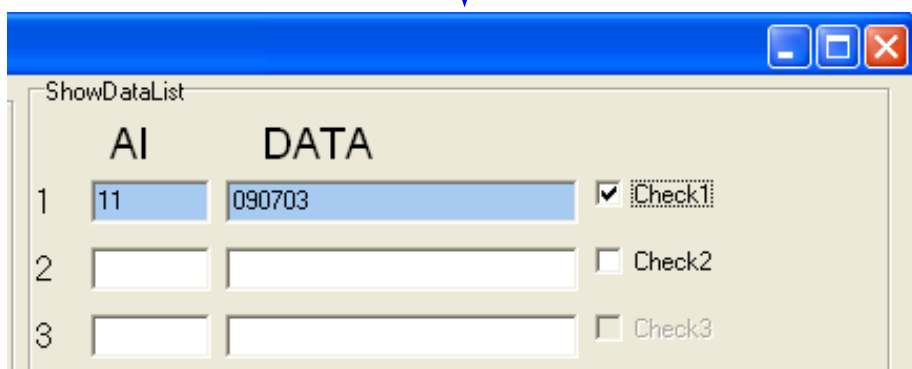
Combine_Items: Empty

Double click one of AI codes from the list, and then the Identifier of the AI code will be moved to the "AI" box on the "ShowDataList" area. Input the data content on "DATA" box following the data format that displayed on "Sample" box and then check the tick box on the right side of "DATA" box to complete the data input of AI code.



The screenshot shows a window titled "ShowDataList" with a table containing three rows. The first row has "11" in the "AI" column and "090703" in the "DATA" column, with an unchecked "Check1" checkbox. The second and third rows have empty "AI" and "DATA" boxes and unchecked checkboxes labeled "Check2" and "Check3".

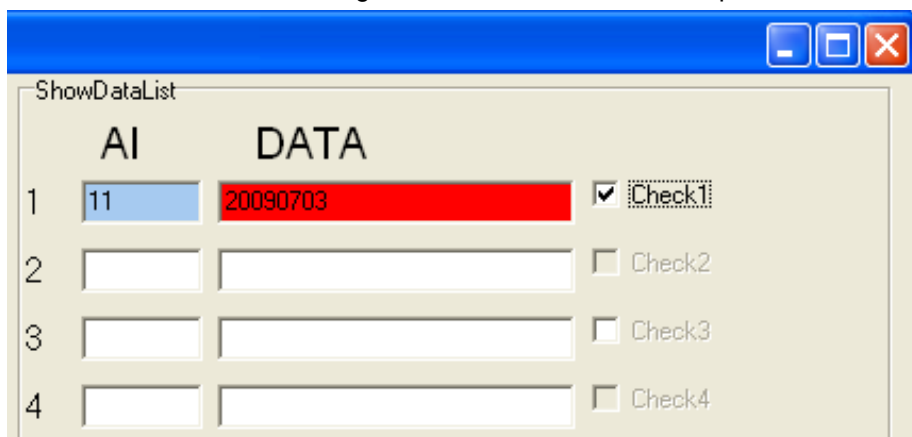
	AI	DATA	
1	11	090703	<input type="checkbox"/> Check1
2			<input type="checkbox"/> Check2
3			<input type="checkbox"/> Check3



The screenshot shows the same "ShowDataList" window. The first row's "AI" box (containing "11") and "DATA" box (containing "090703") are now highlighted in blue. The "Check1" checkbox is now checked.

	AI	DATA	
1	11	090703	<input checked="" type="checkbox"/> Check1
2			<input type="checkbox"/> Check2
3			<input type="checkbox"/> Check3

If the input data doesn't conform to the rule of the AI code and still check the tick box, then the "DATA" box will turn to Red and cannot proceed to next set of AI code. In this case, please uncheck the tick box and then input the data in correct format and check the tick box again to continue next AI data input.



The screenshot shows the "ShowDataList" window. The first row's "AI" box (containing "11") is highlighted in blue, but the "DATA" box (containing "20090703") is highlighted in red. The "Check1" checkbox is checked. The table now has four rows.

	AI	DATA	
1	11	20090703	<input checked="" type="checkbox"/> Check1
2			<input type="checkbox"/> Check2
3			<input type="checkbox"/> Check3
4			<input type="checkbox"/> Check4

If you need input more than one AI code in a barcode, you can repeat above process to input data content in multi columns. Make sure that all of AI code data are input correctly and then click the "Combine" button to combine all AI codes in a barcode. The "Combine_Items" will show how many AI codes are combined and the "Check Data" box will show the final result of barcode content. Check if the barcode content is correct and then click "OK" button to complete the AI data input procedure.

The screenshot shows the 'AI Wizard' application window. It is divided into several sections:

- Application Identifiers:** A list of AI codes and their descriptions. The list includes:

AI	Description
00	SSCC-18 Serial Shipping Container Code
01	SCC-14 Shipping Container Code(GTIN)
02	Item Number of Goods Contained Logistic Unit(GTIN)
10	Batch or Lot Number
11	Production Date(YYMMDD)
12	Due Date(YYMMDD)
13	Packaging Date(YYMMDD)
15	Best By Date(Quantity)(YYMMDD)
17	Expiration Date(Safety)(YYMMDD)
20	Product Variant
21	Serial Number
22	HIBC-Quantity,Expiration Date,and Lot Number
23	Lot Number(Transition Use)
240	Additional Product Identification Assigned by the Manufacturer
241	Customer Part Number
250	Secondary Serial Number
251	Reference to Source Entity
253	EAN,UCC Global Document Type Identifier(GDTI)
30	Variable Count
310	Net Weight(Kilograms)
311	Length or 1st Dimension(Meters)
312	Width, Diameter or 2nd Dimension(Meters)
313	Depth,Thickness,Height or 3rd Dimension(Meters)
314	Area(square Meters)
315	Net Volume(Liters)
316	Net Volume(Cubic Meters)
320	Net Weight(Pounds)
321	Length or 1st Dimension(Inches)
322	Length or 1st Dimension(Feet)
- Sample:** A text field containing the value '(12)090323'.
- Check Data:** A text field showing the combined barcode data: '110907031309070412091203'. Below it are 'OK' and 'Cancel' buttons.
- AI DATA:** A table for inputting data for each AI code. The first three rows are filled:

AI	DATA	Check	
1	11	090703	<input checked="" type="checkbox"/> Check1
2	13	090704	<input checked="" type="checkbox"/> Check2
3	12	091203	<input checked="" type="checkbox"/> Check3
4			<input type="checkbox"/> Check4
5			<input type="checkbox"/> Check5
6			<input type="checkbox"/> Check6
7			<input type="checkbox"/> Check7
8			<input type="checkbox"/> Check8
9			<input type="checkbox"/> Check9
10			<input type="checkbox"/> Check10
11			<input type="checkbox"/> Check11
12			<input type="checkbox"/> Check12
13			<input type="checkbox"/> Check13
14			<input type="checkbox"/> Check14
15			<input type="checkbox"/> Check15
- Combine_Items:** A text field showing '1.2.3Items' and a 'Combine' button.

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)

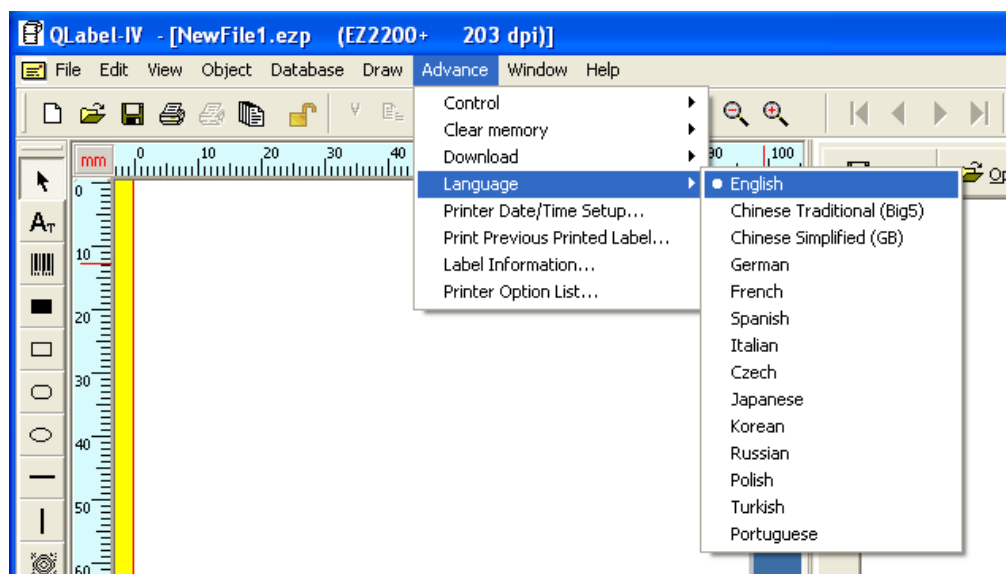
Clear Memory:

Printer external flash memory:	Clearing external flash memory will clear all information in the external flash memeory.
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.

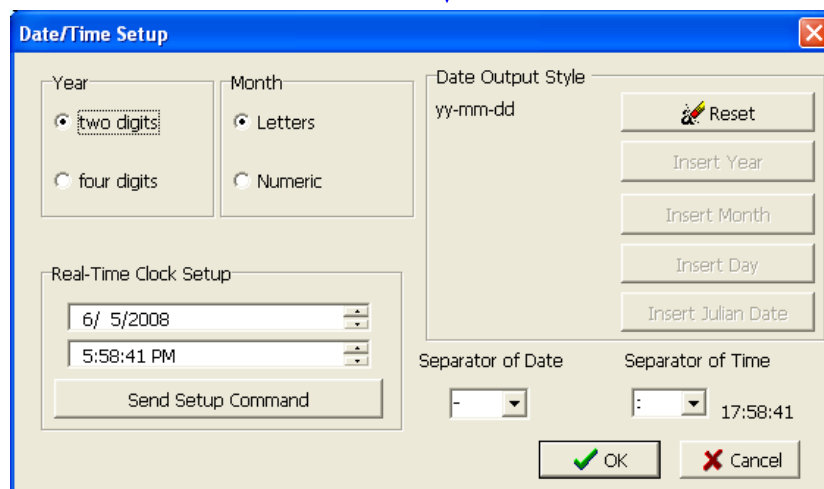
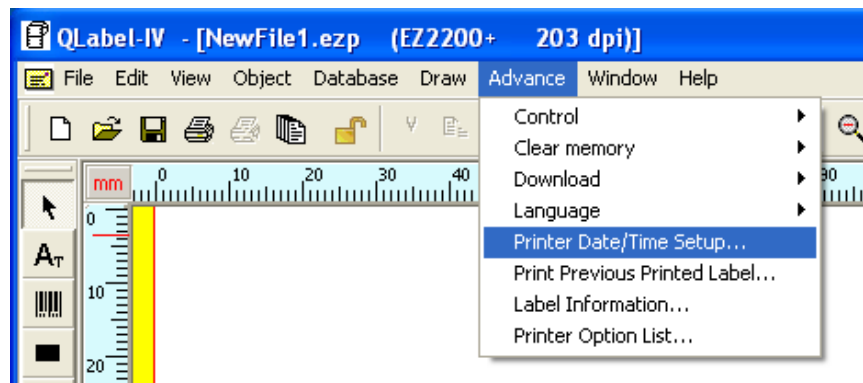
Download:

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.

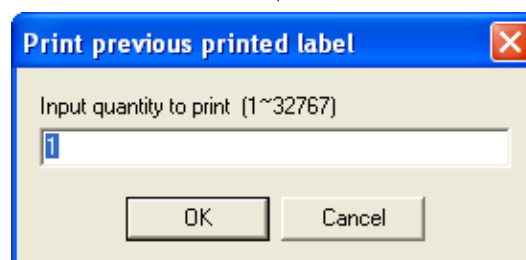
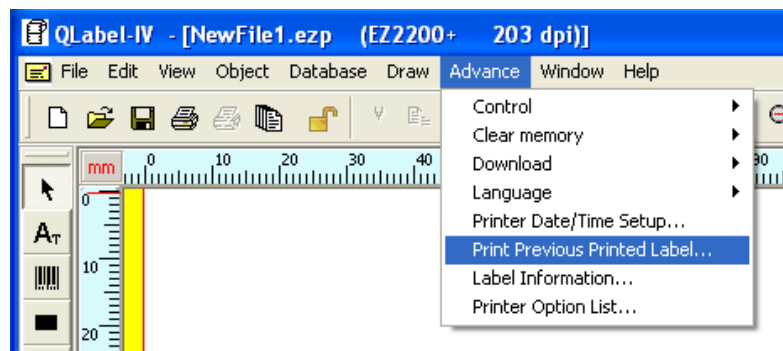
Language: Switch languages.



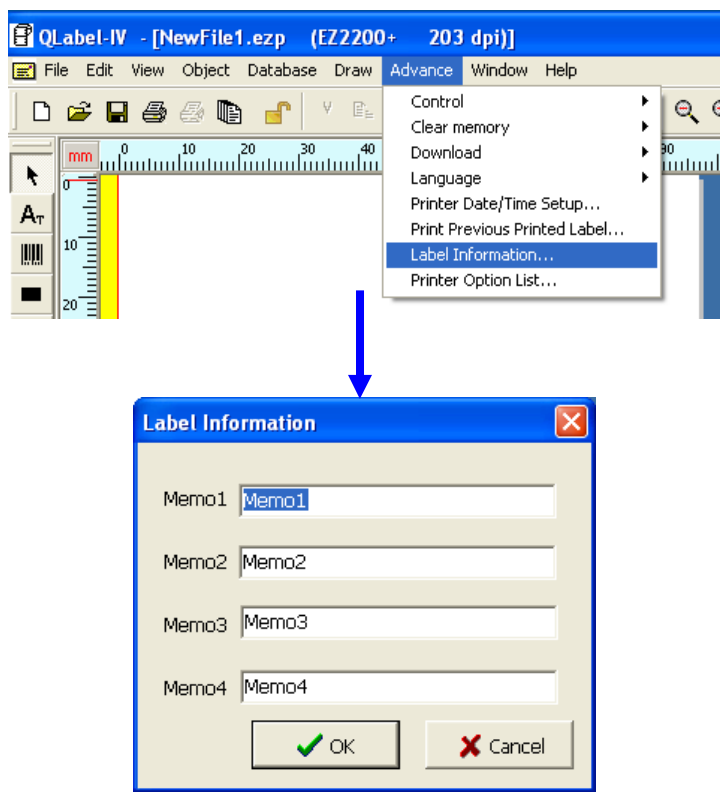
Printer Date/Time Setup: Setup the printer's date and time.



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.

