

Operation Manual

BCP-7000 Job Generator Utility

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1. Introduction

The job generator utility, running under Windows, is a tool assistant to users to create their own data collecting applications without developing program code. The utility offers circumstance which allow user to simulate the running sequences while developing applications on a PC. The whole process of the developing an application is just by key in information to the dialogue boxes in the job generator utility and downloads it to the terminal. A new application can be developed promptly and effortlessly and job of collecting data in the field can be commence at once.

2. How to execute the Job Generator utility

Running the utility, the Main Menu, figure 1 will be shown.



Main Menu, Figure 1

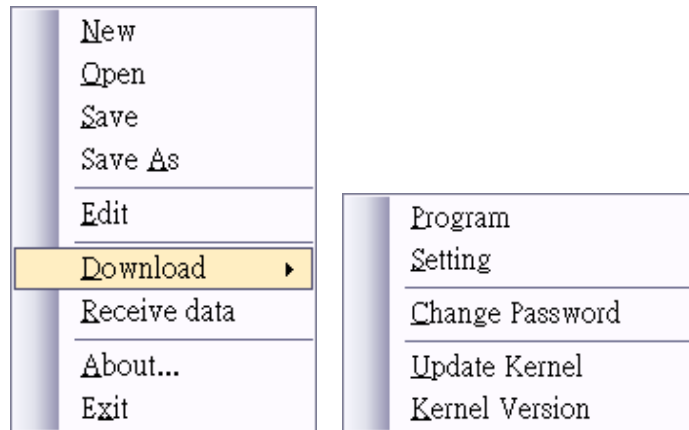
At this window, following two operational ways are available to lead the utility into Main Setting Window.

. Move the mouse cursor to any location on the picture of the terminal and click right button.

or

. Move the mouse cursor to the location of “PWR” key of the terminal and click left button.

One of the two above mentioned operational ways is performed, the Main Setting Window, figure 2 will be shown.



Main Setting Window, Figure 2

3. Main Setting Window

Main Setting Window comprises commands which are aimed mainly at frame create/save/upload/download files as well as terminal hardware settings. The commands are listed below:

- 3.1. New: To create a new application file.
- 3.2. Open: To open an old application file.
- 3.3. Save: To save the current editing application file.
- 3.4. Save As: To save the current editing application file to a new file.
- 3.5. Edit: To edit the current editing application file.
- 3.6. Download: To receive files from PC.
 - 3.6.1. Program: To receive application file from PC.
 - 3.6.2. Setting: To receive setting file from PC.
 - 3.6.3. Change Password: To receive the password setting file from PC.
 - 3.6.4. Update Kernel: To receive the kernel file from PC.
 - 3.6.5. Kernel Version: To receive the kernel version file from PC.
- 3.7. Receive Data: To upload data to PC.
- 3.8. About: To display information pertaining to the Job Generator utility.
- 3.9. Exit: To close the Job Generator utility.

4. Application Template

Move the mouse cursor to the “New” item of the Main Setting Window (figure 2) and click mouse left button, the Application Template, figure 3 will be shown.

Line	Data Type	Prompt	Input Source	Min Length	Max Length	Properties
#1	None		Both	0	50	More...
#2	None		Both	0	50	More...
#3	None		Both	0	50	More...
#4	None		Both	0	50	More...
#5	None		Both	0	50	More...
#6	None		Both	0	50	More...
#7	None		Both	0	50	More...
#8	None		Both	0	50	More...

Application Template, Figure 3

The Application Template which contents form, menu, barcode and startup function settings to formulate the application's running sequence and data attributions. In an effortless way, user is reacted to the template just by clicking mouse button and entering information to the dialogue boxes while developing an application.

4.1. Form

The Form is a program to regulate the data attributions and loop routine of the application. The user is requested to key in all the needed information to the dialogue boxes of the template which may design the running sequence or may define data attributions. It is up to 10 forms can be defined and every form can be defined up to 8 input fields which contains maximum data length up to 50 characters.

4.1.1. Name:

Assign a name#(formID) of the form. There are total up to10 forms can be assigned.

4.1.2. Esc:

Map out the running route of the program to one of the next steps, “Main Menu” or “form#” or “menu#”.

4.1.3. Next:

Map out the running route of the program to one of the next steps, "Main Menu" or "form#" or "menu#".

4.1.4. Date Stamp:

- . None: disable the function that Date Stamp appends to the record.
- . +yyyy/mm/dd: Date stamp to be appended to the rear of record.
- . yyyy/mm/dd+: Date stamp to be appended to the front of the record.

4.1.5. Time Stamp:

- . None: disable the function that Time Stamp appends to the record.
- . +hh:mm:ss: Time stamp to be appended to the rear of the record.
- . hh:mm:ss+: Time stamp to be appended to the front of the record.

4.1.6. Data Type:

- . None: The field is block, it is not allowed data key in.
- . Text: Allow any characters (eg. &*abe123...) to be input to the field.
- . Number: Allow any numeric (eg. 12345, 12.5, ...) to be input to the field.
- . Fix: Prompts will be shown when the field is presented at the terminal and the prompts to be saved to record.
- . Prompt: Prompts will be shown when the field is presented at the terminal and the prompts will not be saved to record.

4.1.7. Prompt

Specify the heading of the input field.

4.1.8. Input Source

Assign the data input by keypad or by scanner or by both.

4.1.9. Min Length

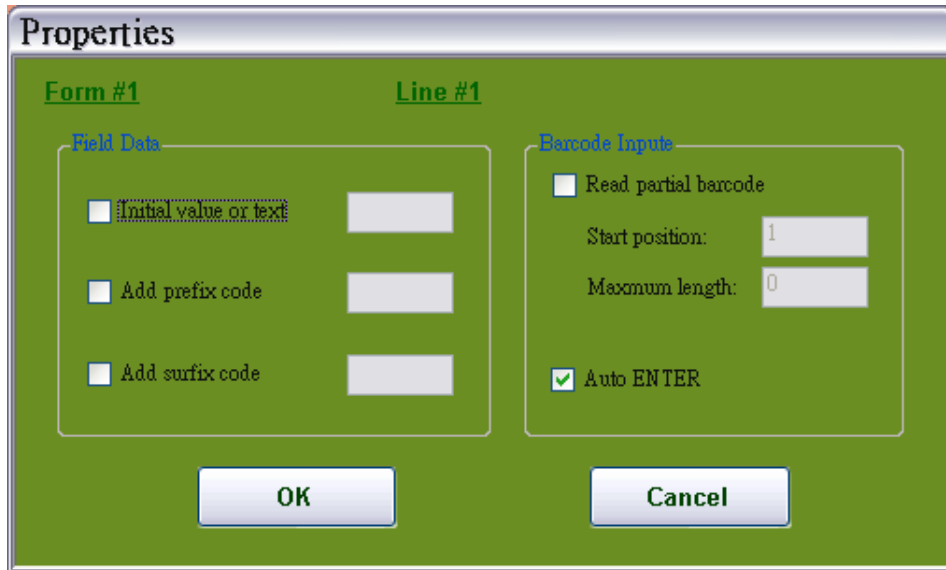
Set the minimum length of the data input.

4.1.10. Max Length

Set the maximum length of the data input.

4.1.11. Properties

Move mouse cursor to the "Properties" item and click left button, the Properties, figure 4 will be shown.



Properties, Figure 4

4.1.11.1. Field data

. Initial value or text

Assign the initial value (default value) or text in the input field.

. Add prefix code

Prefix code to be appended to the data. The prefix code can be any string (eg. BFR:345*&) or any a 3-digits decimal ASCII codes which is led by “\” (eg. “\065\097” equals to “Aa”).

More examples: “\” equals to “\”, “\n” or “\N” equals to “\010”, “r” or “R” equals to “\013”, or “\t” or “\T” equals to “\009”, “\e” or “\E” equals to “\027”.

. Add suffix code

Suffix code to be appended to the data. The suffix code can be any string (eg. BFR:345*&) or any a 3-digits decimal ASCII codes which is led by “\” (eg. “\065\097” equals to “Aa”).

More examples: “\” equals to “\”, “\n” or “\N” equals to “\010”, “r” or “R” equals to “\013”, or “\t” or “\T” equals to “\009”, “\e” or “\E” equals to “\027”.

4.1.11.2. Barcode Input

. Read partial barcode

Set the barcode data to display partially at the data field. The default value of the field is 50 digits.

* Start position

Set the first digit of the barcode data to display at the data field. Its default value is from 1st digit.

* Maximum length

Set the maximum barcode data length at the data field. Its default value is 50 digits.

Example

Start position	Maximum length	Barcode data	Display data
2	10	9876543210	876543210
2	3	9876543210	876

. Auto ENTER

After barcode reading by scanner, an "ENTER" will be automatically executed and to move the cursor to next field.

4.2. Menu

Move the mouse cursor onto "MENU" tab button at figure 3 and click left button, the Menu Window, figure 5 will be shown.

The screenshot shows the 'Application Template' window with the 'Menu' tab selected. The window contains the following elements:

- Name:** Menu1 (dropdown)
- Esc:** Main (dropdown)
- Caption:** [Empty text field]
- Data:** A group box containing three checkboxes: Save Caption, Save Selected Item, and Passdown.
- Table:** A table with 10 rows and 3 columns: Item No., Item Name, and Next. All Item Name cells are empty, and all Next cells are set to 'Main'.
- Buttons:** OK and Cancel buttons at the bottom right.

MENU, Figure 5

The Menu is a program which targeted at mapping out the running route as well as descriptions of the application. The user is requested to key in all the needed information to the blanks of the template which may portray the functions or may design the running sequence of the application. It is up to 10 menu can be defined.

4.2.1. Name:

Assign a Menu#(MenuID) of the current menu.

4.2.2. Esc:

Map out the running route of program to one of the next steps, "Main Menu" or "form#" or "menu#".

4.2.3. Caption.

Assign a heading of the menu.

4.2.4. Data

. Save Caption

This item provides selection to save or not to save the caption of the menu to the record.

. Save Selected Item

This item provides selection to save or not to save the item name of the field to the record.

. Passdown

This item provides selection to save or not to save the Caption of the menu or Save Selected Item of the field to the record. Note that if user wants to save either Caption or Save Selected Item or both; the passdown item box must be left it blank.

. Item Name

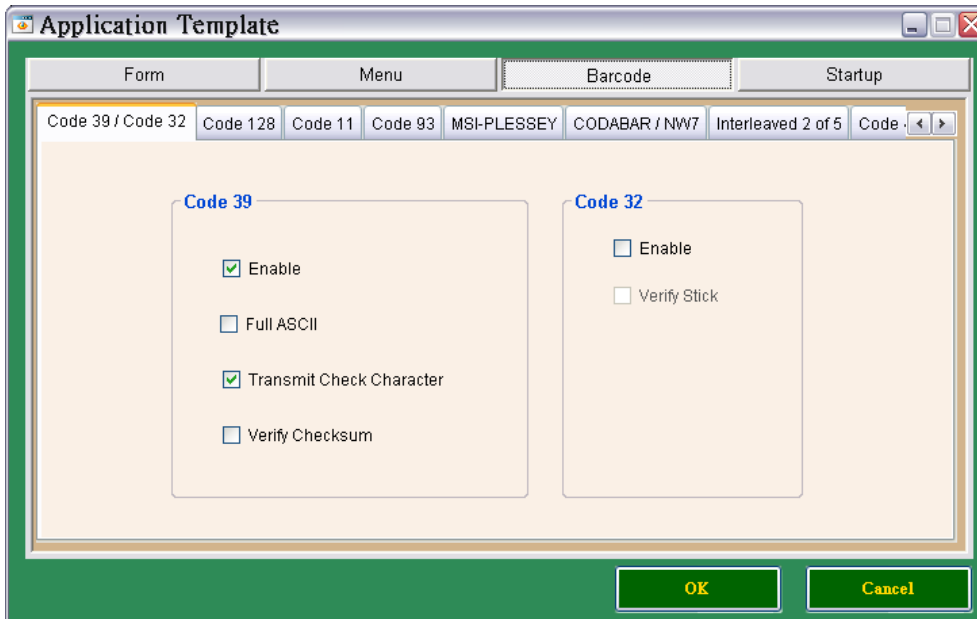
Assign the name of the field.

. Next

Map out the running route of the program to one of the next steps, "Main Menu" or "form#" or "menu#".

4.3. Barcode

Move the mouse cursor onto the "barcode" tab button at the figure 3 and click left button, the Barcode Window, figure 6 will be shown.

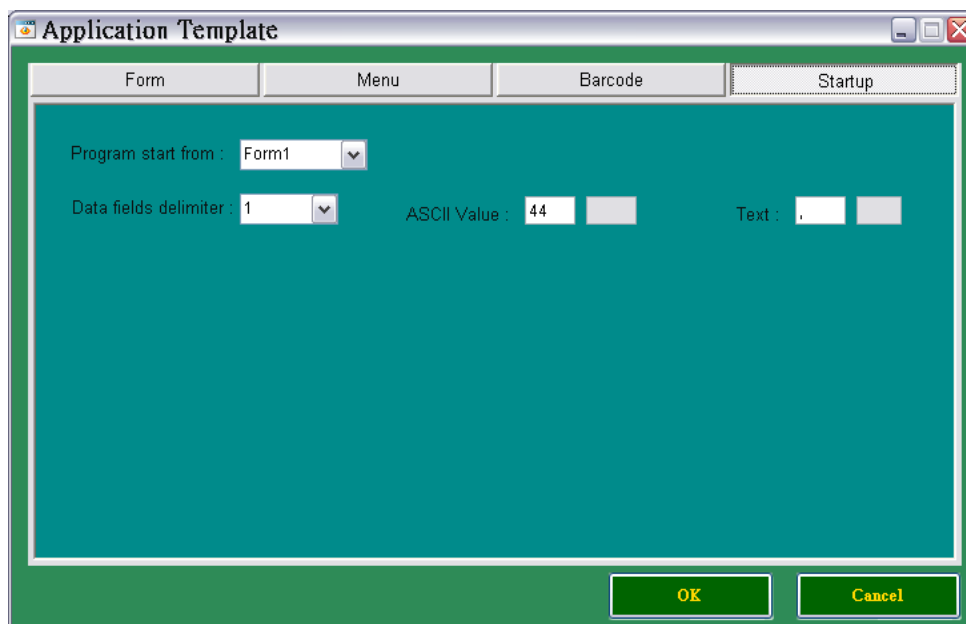


Barcode, Figure 6

- . Click the mouse left cursor onto the left or right arrows which located at right top corner of the window to shift more barcode items to be seen.
- . Click the mouse left cursor onto the barcode item to do the barcode settings.

4.4. Startup

Move the mouse cursor onto the “Startup” tap button at the figure 3 and click left button, the Startup Window, figure 7 will be shown.



Startup, Figure 7

The startup is a program which aimed at to specify where the application to be started from and record format. The user is requested to key in all the needed information to the dialogue boxes of the template.

4.4.1. Program start from

Assign the application where to start from, either from form# or menu#.

4.4.2. Data field delimiter

Assign the number of delimiter(s) of the data field either by one digit or two digits.

4.4.3. ASCII Value

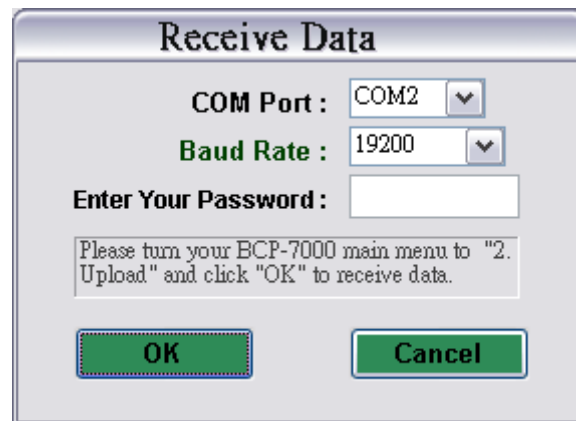
Assign delimiter ASCII value.

4.4.4. Text

Assign delimiter text.

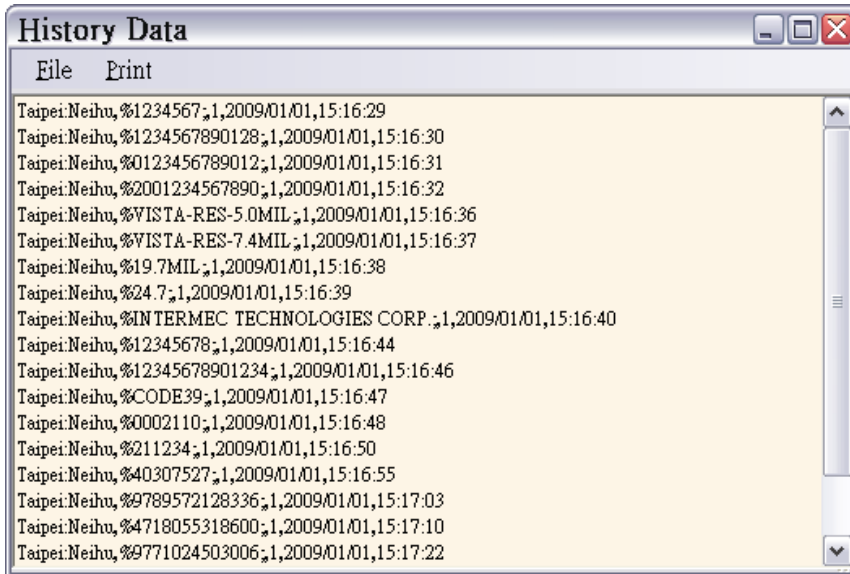
5. Receiving Data

At Main Setting Window (figure 2) move the mouse cursor onto the "Receive Data" item and click the left button. The Receive Data Window, figure 8 will be shown.



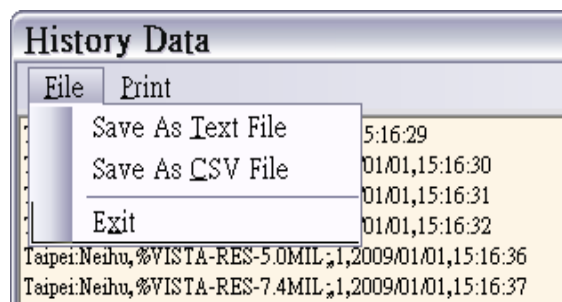
Receive Data, Figure 8

There are two interface cables available between the terminal and PC; USB (serial) and RS-232. After setting the COM Port and Baud Rate, then click "OK" item. The History Data Window, figure 9 will be shown. **Suggestion that before click "OK" button, user has to double check if the terminal is at uploading file state and if the cable is connected firmly between the PC and the terminal.**



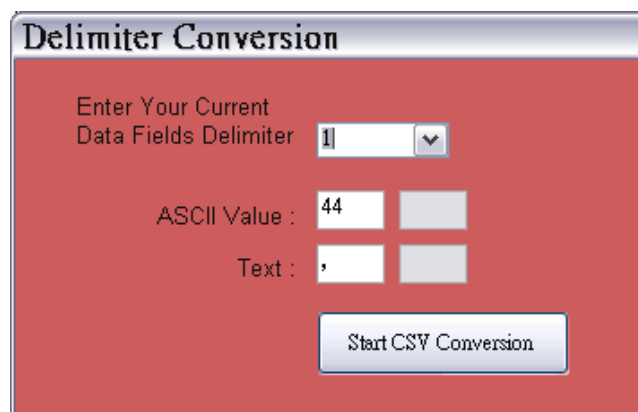
History Data, Figure 9

At the window, user can double check and edit the data. If user wants to save it, move the mouse cursor onto the “file” item and click the left button. File/Print Window, figure 10 will be shown.



File/Print, Figure 10

User can save the data in the forms of text or Excel compatible CSV files. If user wants to save it as CSV file, then move the cursor onto the “Save As CSV File” item and click it, the Delimiter Conversion Window, figure 11 will be shown.

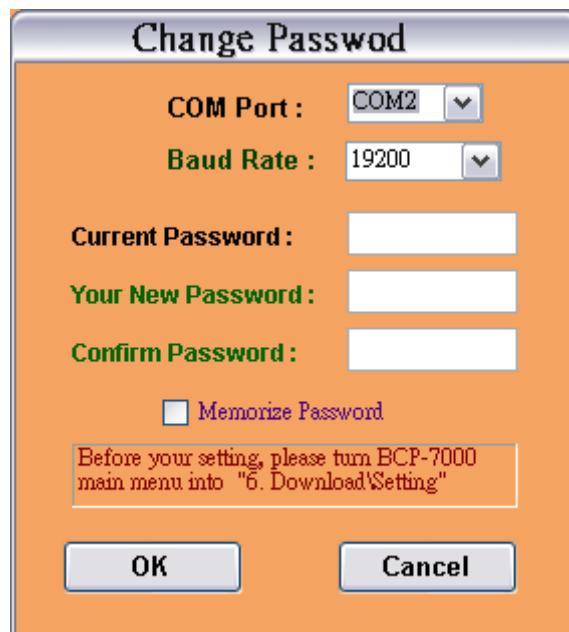


Delimiter Conversion, Figure 11

At the window, user has to enter all the information in the dialogue boxes and then move the mouse cursor onto the “Start CSV Conversion” item and click left button to start the process of data conversion.

6. Change Password

At Main Setting Window (figure 2), move the mouse cursor onto the “Download” item and click the left button, and then move the mouse cursor onto “Change Password” item and click the left button. The Change Password Window, figure 12 will be shown.



The image shows a 'Change Password' dialog box with the following elements:

- COM Port :** A dropdown menu showing 'COM2'.
- Baud Rate :** A dropdown menu showing '19200'.
- Current Password :** A text input field.
- Your New Password :** A text input field.
- Confirm Password :** A text input field.
- Memorize Password**
- A red text box containing the instruction: "Before your setting, please turn BCP-7000 main menu into "6. Download\Setting""
- OK** and **Cancel** buttons at the bottom.

Change Password, Figure 12

The password contains up to 10 alphanumeric characters, includes lower case a~b, upper case A~Z, and 0-9. The password would be changed only after the current password verified. While setting up a password for the first time, leave the “Current Password” item blank, and fill in the “Your New Password” item and the “Confirm New Password” item accordingly.

After the password is configured, any communication between the terminal and PC would request password verification.

When the “Memorize Password” function is enabled; user isn’t requested to enter the password every time when terminal works to communicate with PC.

7. Setting

At Main Setting Window (figure 2), move the mouse cursor onto the “Download” item and click the left button, and then move the mouse cursor onto the “Setting” item and click the left button. One of the Download Setting window, figure 13~16, will be shown.

7.1. Buzzer Pitch

The buzzer’s pitch can be adjusted to meet user’s optimal needs. At the figure 13, the bar represents the pitch value, between 0~255 Hz. User just need to drag the arrow to travel it to any position in the bar, while the bar is traveling, the small window shows a rotated number which represents the pitch value. User can use “Test” item to try out the best value of the pitch before save it as a file or download it to the terminal.

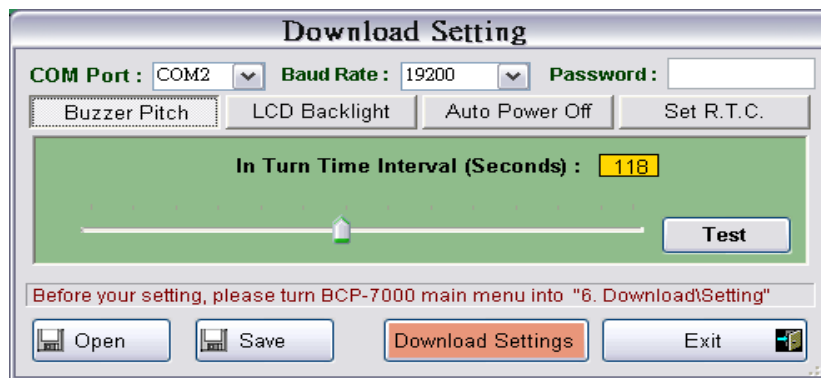


Figure 13

7.2. LCD Backlight

The LCD backlight can be set to auto off in the pre-defined period of time without press any keypad or do a scan on the terminal. At the figure 14, the bar represents pre-defined off time value, 0-60 second. User just need to drag the arrow to travel it to any position in the bar, while the bar is traveling, the small window shows a rotated number which represents the pre-defined off time value. User is also able to set the backlight always on by click the “Always ON” item. User can save it as a file or just download it to the terminal. Factory default is off.

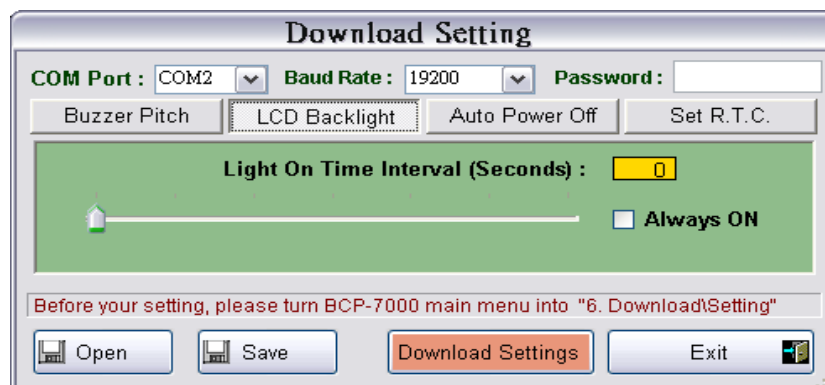


Figure 14

7.3. Auto Power Off

The terminal can be set to auto power off in the pre-defined period of time without press any keypad or do a scan on the terminal. At figure 15, the bar represents pre-defined off time value, 0-60 minute. User just need to drag the arrow to travel it to any position in the bar, while the bar is traveling, the small window shows a rotated number which represents the pre-defined off time value. User is also able to set the terminal always on by click the "Disable" item. User can save it as a file or just download it to terminal.

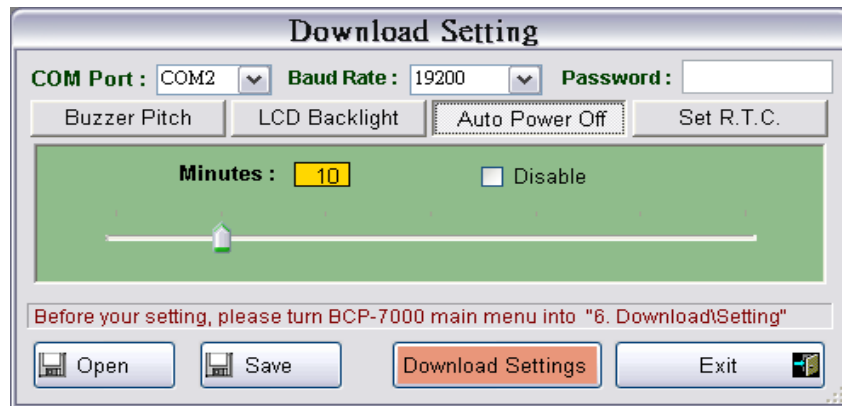


Figure 15

7.4. Set R.T.C.

The terminal's real time clock has to synchronize with host PC. At the figure 16, user can save it as a file or just download it to the terminal.

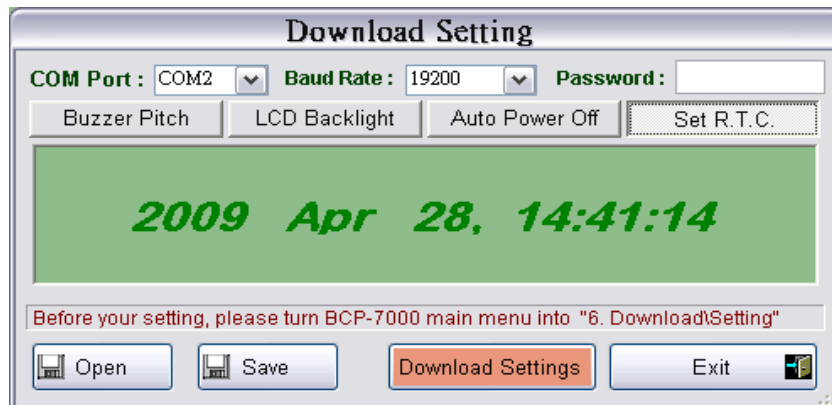


Figure 16

8. Update Kernel Firmware

User can update kernel firmware on the terminal. Please do take cautiously means to prevent the communication breakdown or other factors that interfere in the communication while the process of the kernel firmware is being up-dated. Any failures happen in the communication process may cause terminal hang-up.

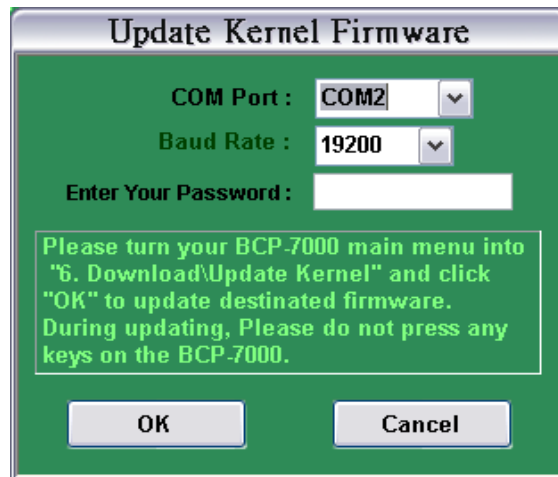


Figure 17

9. Get Kernel Version

User can get the kernel version from the terminal.

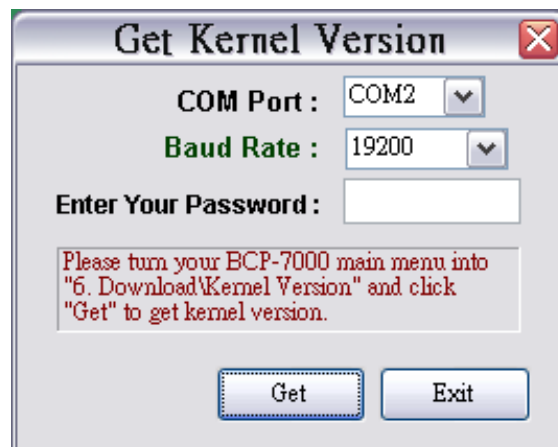


Figure 19

10. Example Job Application

The chapter aims to tutor how to design a job application. There is a Program Template File at CD disk, its file name is `tysso.bcp` which is the example file to guide user how a job application designed.

Assuming that the application consists of user identified number, location, item no. and quantity variables and the working flow of the application is framed as below:

. Firstly, it needs an initial window (referred as menu1) when the application is executed and a given name and options to head into data collecting job or quit the application.

- . The user identified number (referred as form1) is run prior data collecting job commence.
- . Location, Item No and Quantity (referred as form 2) variables have to be collected in the warehouse. It would be a loop routine process by start from location, item no and quantity till an “Esc” command is executed. When the “Esc” command is enable, the loop routine would be ended and shift to the menu1.

10.1. Run the Job Generator utility

The Main Menu figure will be shown on the PC.



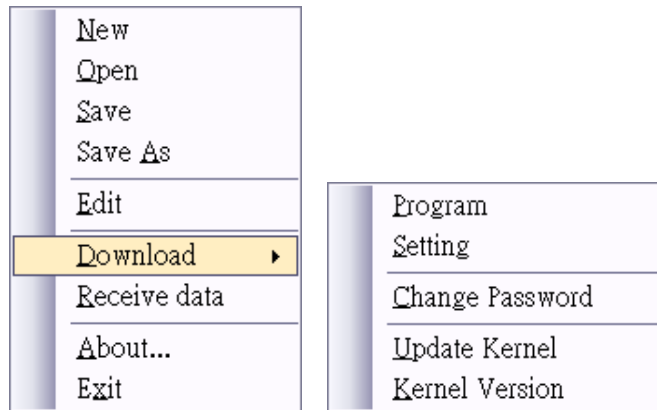
Main Menu, Figure 1

. Move the mouse cursor to any location on the picture of the terminal (figure 1), and click right button.

or

. Move the mouse cursor to the location of “PWR” key of the terminal (figure 1), and click left button.

One of the two above mentioned operational ways is performed, the Main Setting Window, figure 2 will be shown.



Main Setting Window, Figure 2

At figure 2, select “OPEN” item first and to read the example file, tysso.bcp. After reading the tysso.bcp file, the following figure will be shown on the PC.

Line	Data Type	Prompt	Input Source	Min Length	Max Length	Properties
#1	Text	User ID:	Both	3	50	More...
#2	None		Both	0	50	More...
#3	None		Both	0	50	More...
#4	None		Both	0	50	More...
#5	None		Both	0	50	More...
#6	None		Both	0	50	More...
#7	None		Both	0	50	More...
#8	None		Both	0	50	More...

Figure 20

At this figure shows detailed settings, form1, at the Application Template. Those settings are described as below:

- Name: Form1 – this form’s ID
- Esc: Menu1 – when an “Esc” command is called, the application would head into Menu1.
- Next: Form2 – when a “next” command is called, the application would head into Form2.
- Date Stamp: +yyyy/mm/dd – the date stamp would be appended to the rear of record.
- Time Stamp: +hh:mm:ss – the time stamp would be appended to the rear of record.
- Data Type: Text – allow any characters (eg. &*abe123...) to be input to the field.
- Prompt: User ID: -- the prompt represents user identified number.

- Input Source: both – data key-in is allowed by scanner and by keypad. If the data is key-in by scanner, then the “ENETR” is automatically executed while the data key-in is by keypad, then the “ENTER” has to be pressed by operator to complete the key-in process.
- Min Length: 1 – the number of the data is not less than 1 digit.
- Max Length: 50 – the number of the data is not more than 50 digits.
- Properties: please refer to the figure 21

The 'Properties' dialog box is titled 'Form #1' and 'Line #1'. It is divided into two main sections: 'Field Data' and 'Barcode Input'.
 In the 'Field Data' section, there are three options: 'Initial value or text' (unchecked), 'Add prefix code' (checked), and 'Add suffix code' (unchecked). The 'Add prefix code' option has a text box containing 'User ID:'.
 In the 'Barcode Input' section, there are three options: 'Read partial barcode' (unchecked), 'Auto ENTER' (checked), 'Start position:' (text box with '1'), and 'Maximum length:' (text box with '0').
 At the bottom, there are 'OK' and 'Cancel' buttons.

Figure 21

* At this figure shows that the prompt of “User ID:” would be saved as prefix to the record. And the “ENTER” will be executed when a data key-in is by scanner.

When finishes form1 setting. Move the mouse cursor to Name Com Box and click the left button to dropdown more form# selections. The following figure will be shown on the PC.

The 'Application Template' dialog box has a tabbed interface with 'Form', 'Menu', 'Barcode', and 'Startup' tabs. The 'Form' tab is active.
 At the top, there are dropdown menus for 'Name:' (Form1), 'Esc:' (Menu1), 'Date Stamp:' (+yyyy/mm/dd), 'Next:' (Form2), and 'Time Stamp:' (+hh:mm:ss).
 Below is a table with the following columns: Name, Line, Prompt, Input Source, Min Length, Max Length, and Properties.
 The table contains 8 rows:
 - Row 1: Name: Form1, Line: #1, Prompt: User ID:, Input Source: Both, Min Length: 1, Max Length: 50, Properties: More...
 - Row 2: Name: Form2, Line: #2, Prompt: (empty), Input Source: Both, Min Length: 0, Max Length: 50, Properties: More...
 - Row 3: Name: Form3, Line: #3, Prompt: (empty), Input Source: Both, Min Length: 0, Max Length: 50, Properties: More...
 - Row 4: Name: Form4, Line: #4, Prompt: (empty), Input Source: Both, Min Length: 0, Max Length: 50, Properties: More...
 - Row 5: Name: Form5, Line: #5, Prompt: (empty), Input Source: Both, Min Length: 0, Max Length: 50, Properties: More...
 - Row 6: Name: Form6, Line: #6, Prompt: (empty), Input Source: Both, Min Length: 0, Max Length: 50, Properties: More...
 - Row 7: Name: Form7, Line: #7, Prompt: (empty), Input Source: Both, Min Length: 0, Max Length: 50, Properties: More...
 - Row 8: Name: Form8, Line: #8, Prompt: (empty), Input Source: Both, Min Length: 0, Max Length: 50, Properties: More...
 At the bottom, there are 'OK' and 'Cancel' buttons.

Figure 22

*At the window, select the form2 and click left button. The following figure will be shown below.

Line	Data Type	Prompt	Input Source	Min Length	Max Length	Properties
#1	Text	Location:	Both	1	50	More...
#2	Text	Item No:	Both	1	50	More...
#3	Number	Qty:	Keyboard	1	50	More...
#4	None		Both	0	50	More...
#5	None		Both	0	50	More...
#6	None		Both	0	50	More...
#7	None		Both	0	50	More...
#8	None		Both	0	50	More...

Figure 23

*At the window, shows detailed settings, form 2, at the Application Template. Those Settings are described as below:

- Name: Form2 – this form’s ID
- Esc: Menu1 – when an “Esc” command is called, the application would head into Menu1.
- Next: Form2 – when a next command is called, the application would head into Form2.
- Date Stamp: +yyyy/mm/dd – the date stamp would be appended to the rear of record.
- Time Stamp: +hh:mm:ss – the time stamp would be appended to the rear of record.
- Data Type: Text – allow any characters (eg. &*abe123...) to be input to the field.
- Prompt: Location: -- the prompt represents the locations.
- Input Source: both – data key-in is allowed by scanner and by keypad. If the data is key-in by scanner, then the “ENETR” is automatically executed while the data key-in is by keypad, then the “ENTER” key has to be pressed by operator to complete the key-in process.
- Min Length: 1 – the number of the data is not less than 1 digit.
- Max Length: 50 – the number of the data is not more than 50 digits.
- Properties: please refer to figure 24.

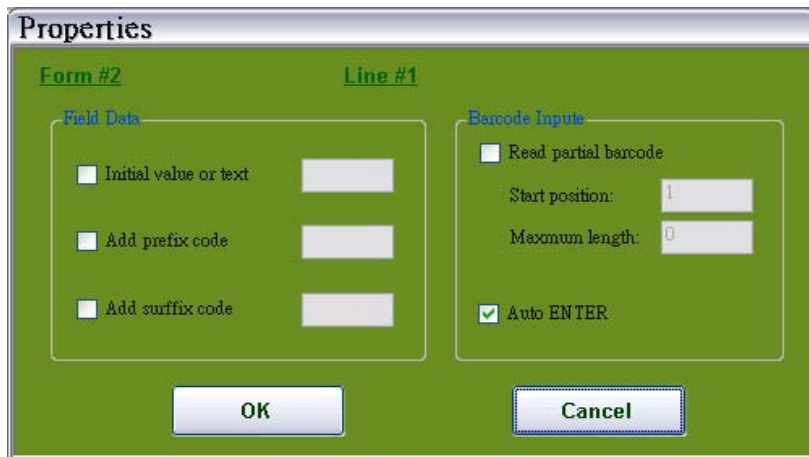


Figure 24

* At this setting, an “ENTER” will be automatically executed when a data key-in is by scanner.

- Prompt: Item No: -- the prompt represents the item no.
- Input Source: both –data key-in is allowed by scanner and by keypad. If the data is key-in by scanner, then the “ENETR” is automatically executed while the data key-in is by keypad, then the “ENTER” key has to be pressed by operator to complete the key-in process
- Min Length: 1 – the number of the data is not less than 1 digits.
- Max Length: 50 – the number of the data is not more than 50 digits.
- Properties: please refer to figure 25

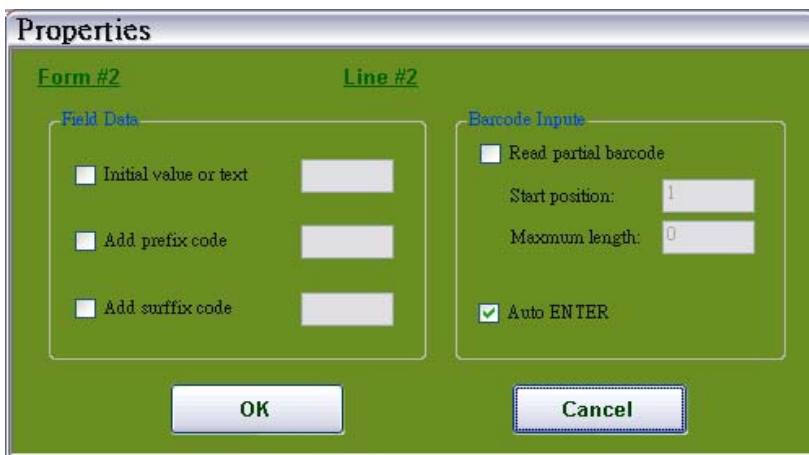


Figure 25

*At this setting, an “ENTER” will be automatically executed when a data key-in is by scanner.

- Prompt: Qty: -- the prompt represents the quantity.
- Input Source: keyboard – The information key-in is by keypad only, the “ENTER” key has to be pressed by operator to complete the process.

- Min Length: 1 – the number of the data is not less than 1 digits.
- Max Length: 50 – the number of the data is not more than 50 digits.
- Properties: please refer to the figure 26

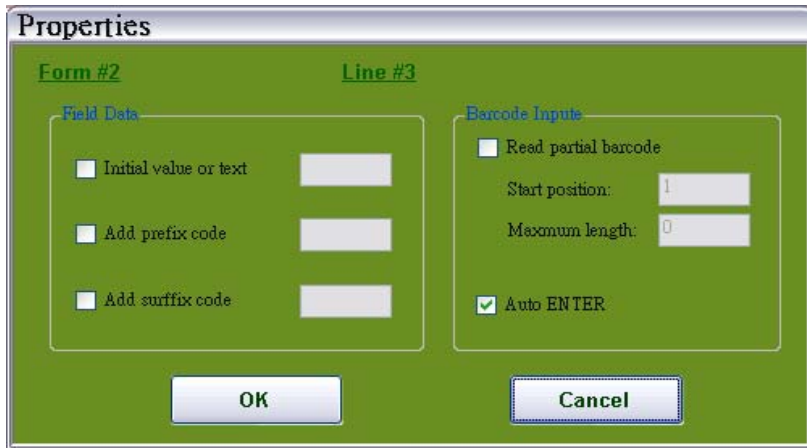


Figure 26

* At this setting, an “ENTER” won’t be automatically executed when a data key-in is by keypad.

When finishes form2 setting. Move the mouse cursor to Menu Tab Button and click the left button. The following figure will be shown on the PC.

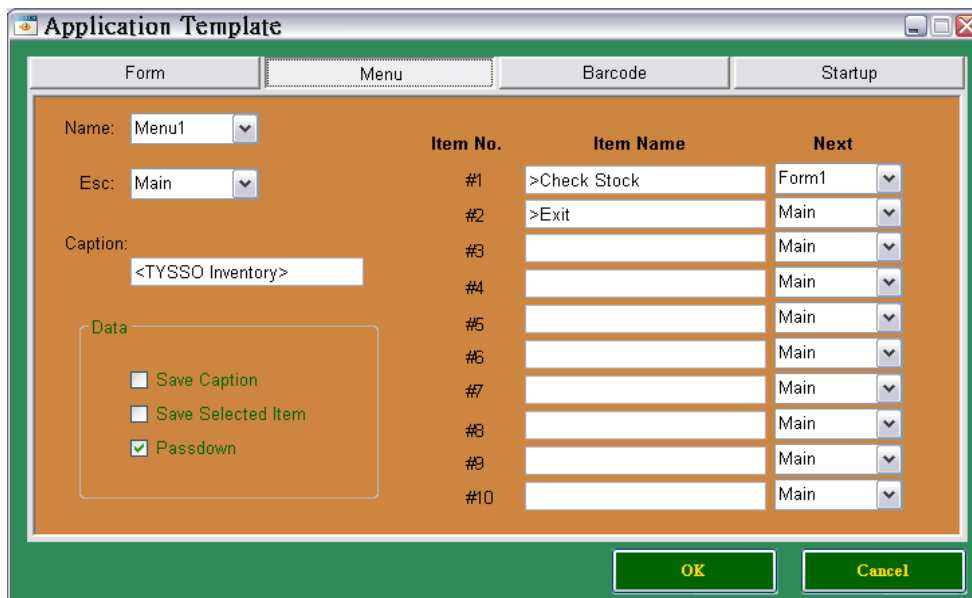


Figure 27

*At this window shows detailed settings, menu1, at the Application Template. Those settings are described as below:

- Name: Menu1 – this menu’s ID.

- Esc: Main – when an “Esc” command is called, the application would head to Main Menu.
- Caption: <TYSSO Inventory> -- the heading of the application.
- Passdown: -- the menu’s information won’t be saved to record.
- Item Name: “>Check Stock” and “>Exit” -- are prompts.
- Next – “item1” is set the application head to form1 and “item2” is set application head to Main Menu.

10.2. Download the Program Template file to the terminal.

At the Main Setting Window, figure 2, select the “download” item then program item, the Download AP Template figure will be shown.

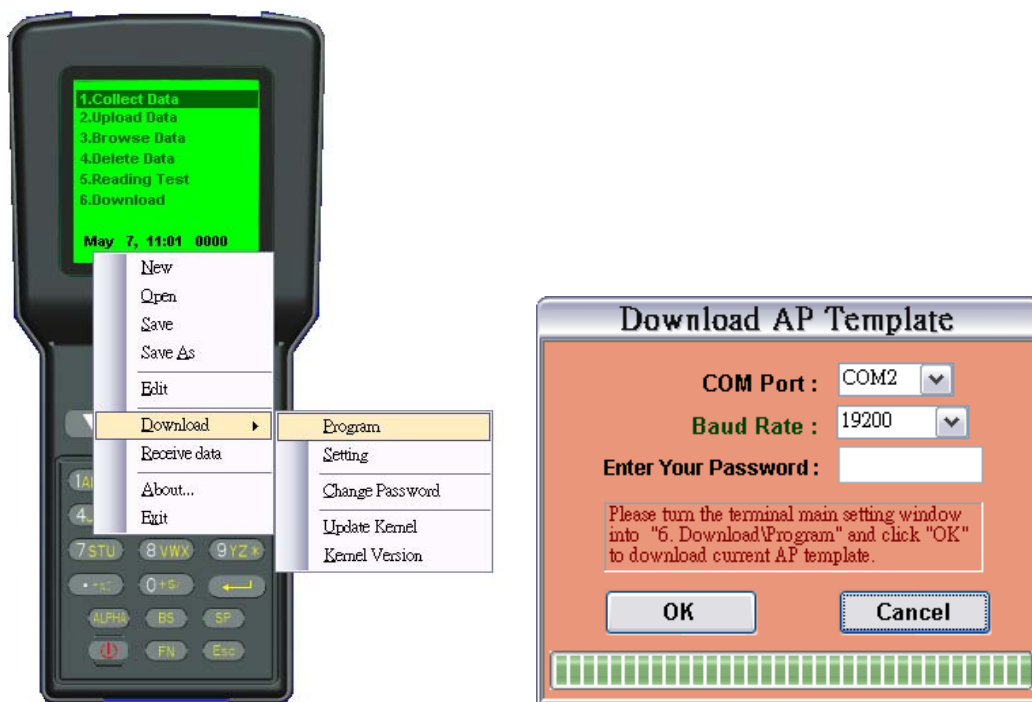


Figure 28

*At this window, user has to fill in the correct the COM Port, Buad Rate information into blanks. **However, before click “OK” button, user has to double check if the terminal is at receiving file state and if the cable is connected firmly between the PC and the terminal.** The route to get to the state of the terminal to receive the program template file is via main menu\download\program\enter.

10.3. Collecting Data

When finishes the program template file download. The terminal became equipped with the user’s designed application, Tysso Inventory, already. At terminal to enable the Tysso Inventory application is via the route of main menu\collect data\enter.

10.4. Uploading Data

When finishes the data collecting task. The user wants to upload the collected data to PC. At PC side, user has to run the Main Setting Window, figure 2, select the "Receive data" item and Receive Data figure will be shown.

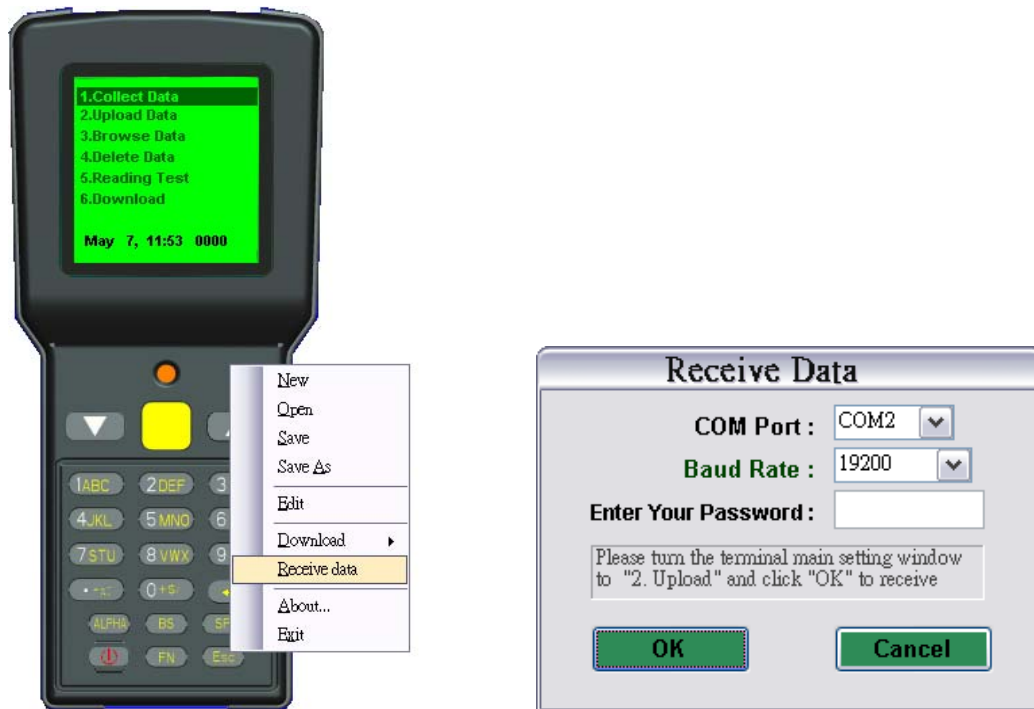


Figure 29

*At this window, user has to fill in the correct the COM Port, Buad Rate information into blanks. However, before click "OK" button, user has to double check if the terminal is at uploading file state and if the cable is connected firmly between the PC and the terminal. The route to get to the state of the terminal to upload the data is via main menu/upload data/enter.

When finishes the uploading task. The following figure will be shown on the PC.

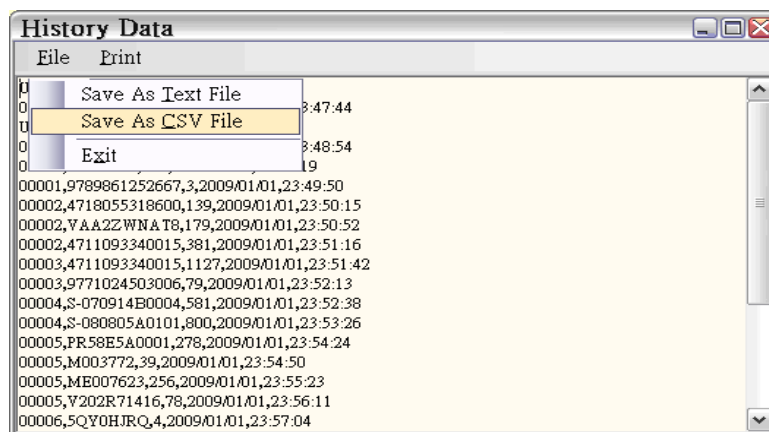


Figure 30

The file can be saved as Text file or CSV file. The example shows the file wants to be saved as a CSV file. At the window, click left button on the “file” item, then the figure 31 will be shown.

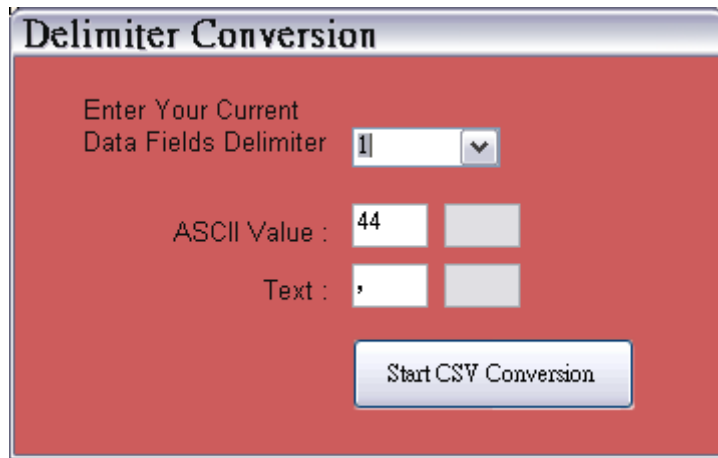


Figure 31

*At the window, click the left button on the “Start CSV Conversion”, then the figure 32 will be shown.

	A	B	C	D	E	F	G
1	User ID:01230	2009/1/1	23:48:30				
2	1	40307527	133	2009/1/1	23:49:19		
3	1	9789861252667	3	2009/1/1	23:49:50		
4	2	4718055318600	139	2009/1/1	23:50:15		
5	2	VAA2ZWNAT8	179	2009/1/1	23:50:52		
6	2	4711093340015	381	2009/1/1	23:51:16		
7	3	4711093340015	1127	2009/1/1	23:51:42		
8	3	9771024503006	79	2009/1/1	23:52:13		
9	4	S-070914B0004	581	2009/1/1	23:52:38		
10	4	S-080805A0101	800	2009/1/1	23:53:26		
11	5	PR58E5A0001	278	2009/1/1	23:54:24		
12	5	M003772	39	2009/1/1	23:54:50		
13	5	ME007623	256	2009/1/1	23:55:23		
14	5	V202R71416	78	2009/1/1	23:56:11		
15	6	5QY0HJRQ	4	2009/1/1	23:57:04		
16	6	12562855905	75	2009/1/1	23:57:38		
17	6	0808051014AT	9	2009/1/1	23:58:34		
18	6	9789867198686	45	2009/1/1	23:58:59		
19	6	9789867961631	132	2009/1/1	23:59:25		

Figure 32