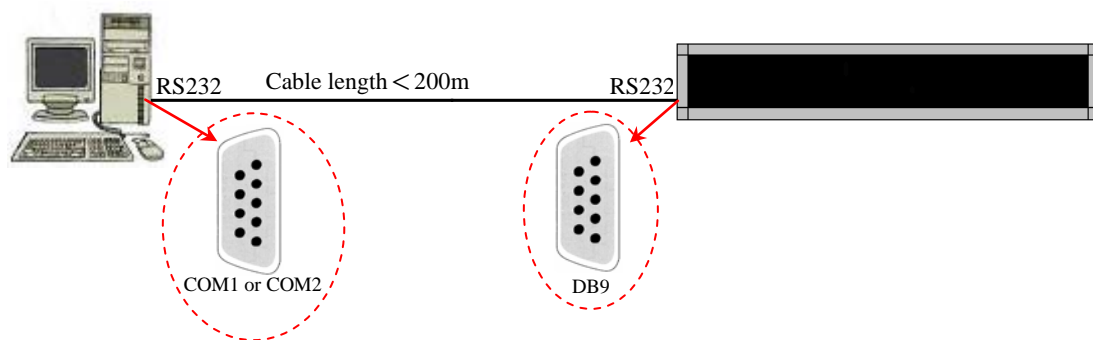


RS232 Communication

The Multi-Line LED electronic message center can connect with PC by RS232, and can up to 128 units made a network via RS422 communication. Besides, it can use modem communication. And it support control by TCP/IP network (LAN) too. Following content will introduce RS232 communication mode use step.

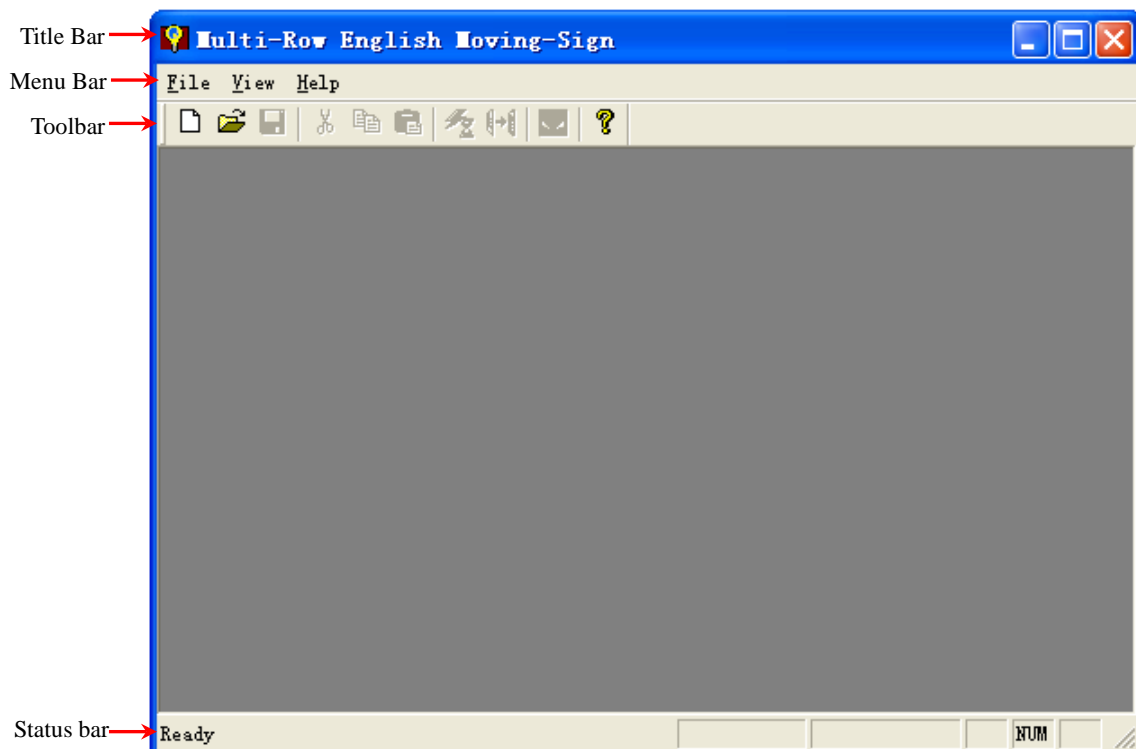
RS232 communication mode is the default mode of the system.


Step1: Connect COM port on the PC with the communication interface on the sign by RS232 communication cable. Following figure shows it.

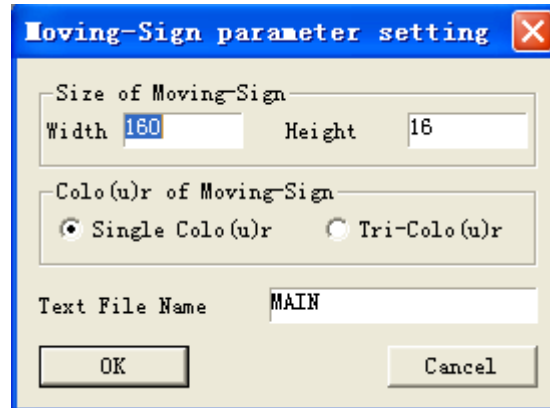


Step2: Turn on the LED moving sign's power supply, after displaying version number and other information, 4×8 pixels' light area will be displayed on the top right corner of the sign (here LED sign doesn't have content).

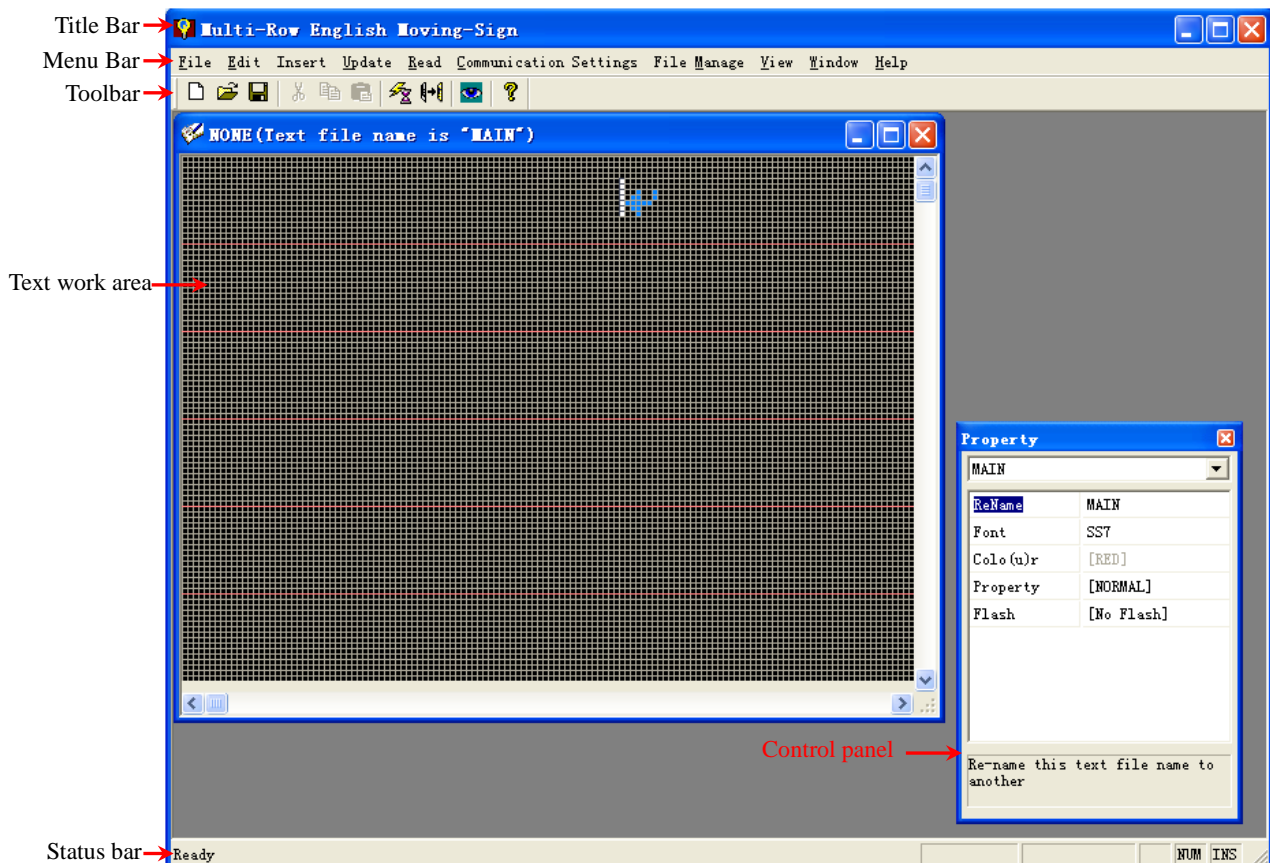
Step3: Run the program, it will display a figure window as following:




Step4: In above figure, click  button or select menu 'File > New' to create a new document. It will show the following dialog box. User can set the parameter of the moving sign.



Step5: Input the text file name (such as MAIN), click OK button, it will show the main interface window as following.

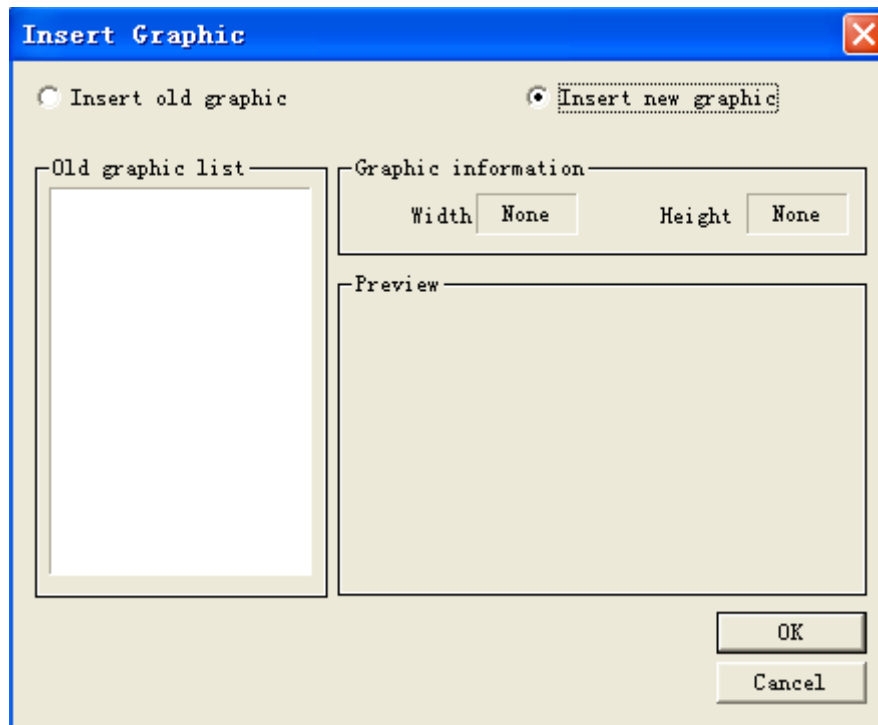



Step6: Edit file content in the text work area. User can change the file content through the property control panel.

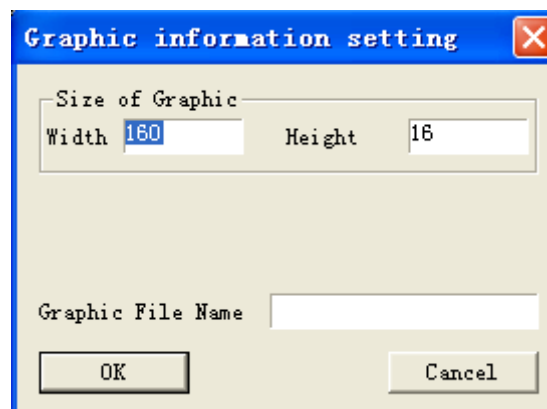
Step7: Click mouse left key on **save** in the file menu. It will save the contents of currently active Text Work Area in the open file. This menu has a shortcut button .

in toolbar.

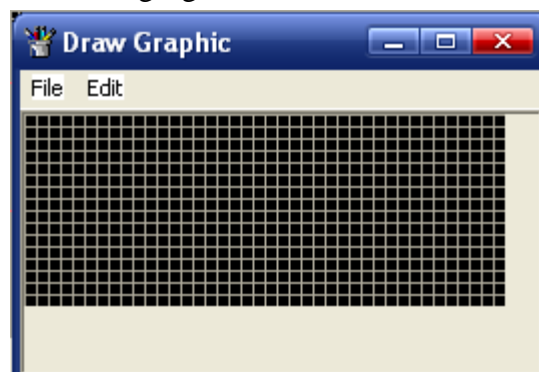
Step8: Click mouse's left-key on 'Graphic...' under insert menu to insert a graphic into the current active text work area. It will show the following dialog box.



Step9: Click mouse's left-key on "Insert new graphic" or  in front of "Insert new graphic" to select it. Click OK button, it will show the following figure.



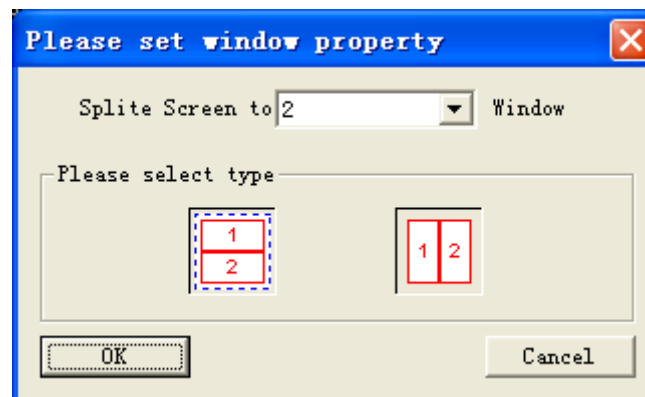
Step10: Set the graphic's information and input the graphic file name, then click OK button, it will show the following figure.



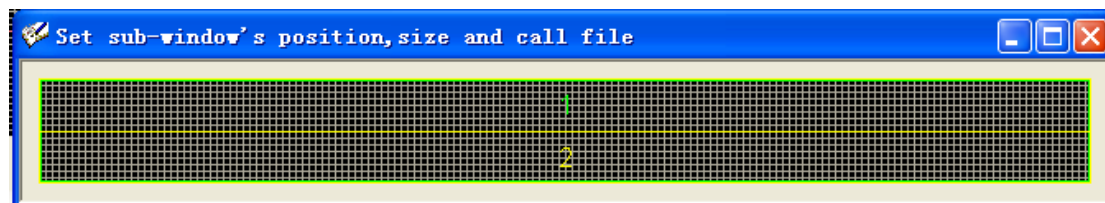
Step11: Use the draw toolbar to draw your graphic in draw graphic window. After drawing, click ‘Save and Return’ command under edit menu of draw graphic window, a new graphic has inserted into the current active text work area.

Note: User can refer to the [User manual of LED multi-line software](#) for how drawing graphic in the draw graphic window.

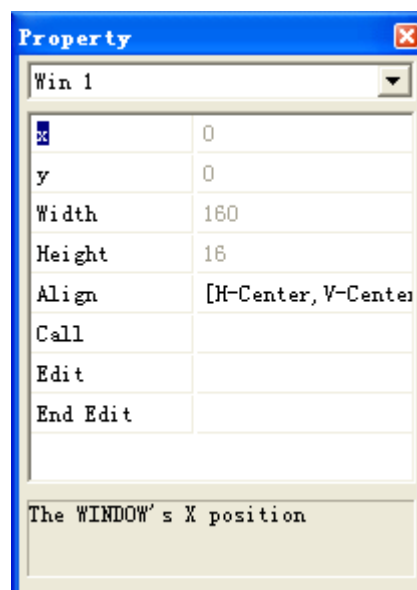
Step12: Click mouse’s left-key on ‘Window’ command under insert menu to insert window control character into the text work area. It will show the following figure. Select window number on the drop list and window type.



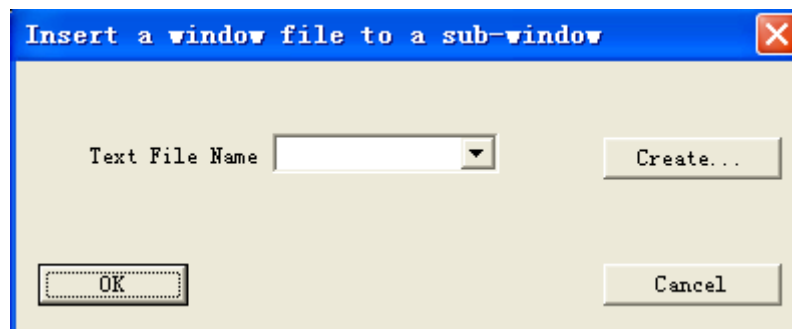
Step13: Click OK button and show the following figure.



The control panel changes into the window property control panel.



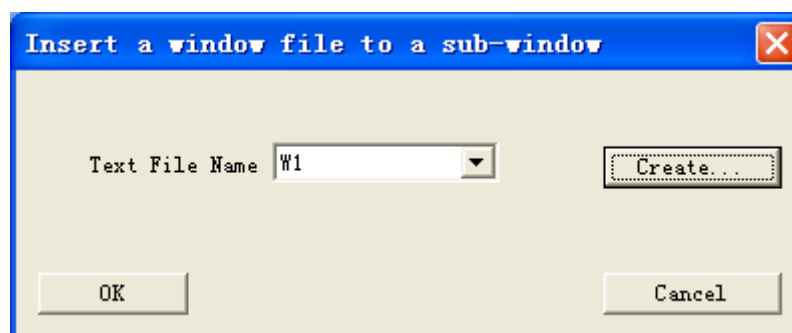
Step14: Click Call command on above figure, it will display a button. Then click the button to execute it. A dialog box will be display as following fig.



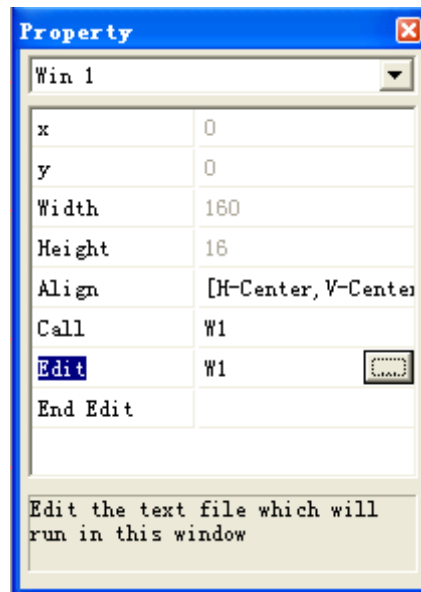
Step15: Click the Create button to create a window file, it will display the following dialog box, and input the file name (such as W1). Click OK button.



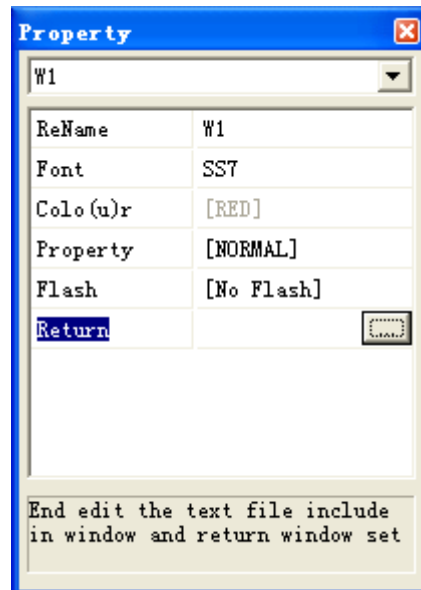
Step16: Display the following figure. Click OK button, the Program will return to edit window mode automatically.



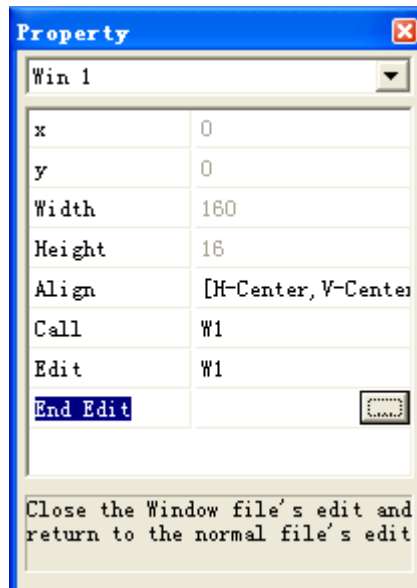
Step17: Click Edit command on the window property control panel, it will display a button. Then click the button to edit the window file content.



Step18: The program will enter into the edit window file mode; the following control panel will be displayed:



Step19: After editing file, click 'Return' command, it will display a button. Click the button to finish editing of the window file. The program will return to the edit window mode. Control panel changes into the following figure.



Step20: Click 'End Edit' command, it will display a button. Click the button to end the window's setting. The program will return to the edit text file mode.

Note: User can insert date & time, move method, row space, speed and so on other contents into the current text work area. Please refer to User manual of LED multi-line software for detailed operation.

Step21: Click mouse's left-key on 'Communication Mode Settings' command under Communication settings menu to execute it. A dialog box will be displayed as following figure.



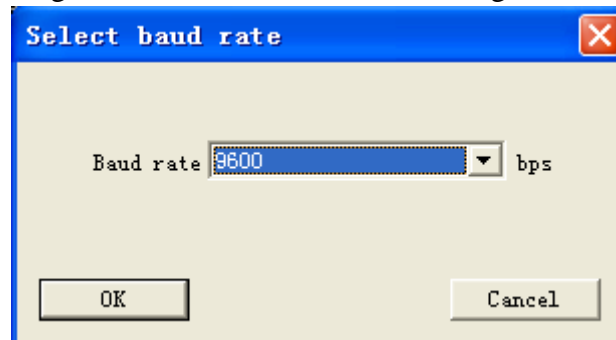
Step22: Click ☒ 232 in "Communication Mode" window, then click 'Close' button.

Step23: Click mouse's left-key on 'Set Comport & Addr.(RS-232)' command under communication settings menu to execute it. The following figure will be displayed.



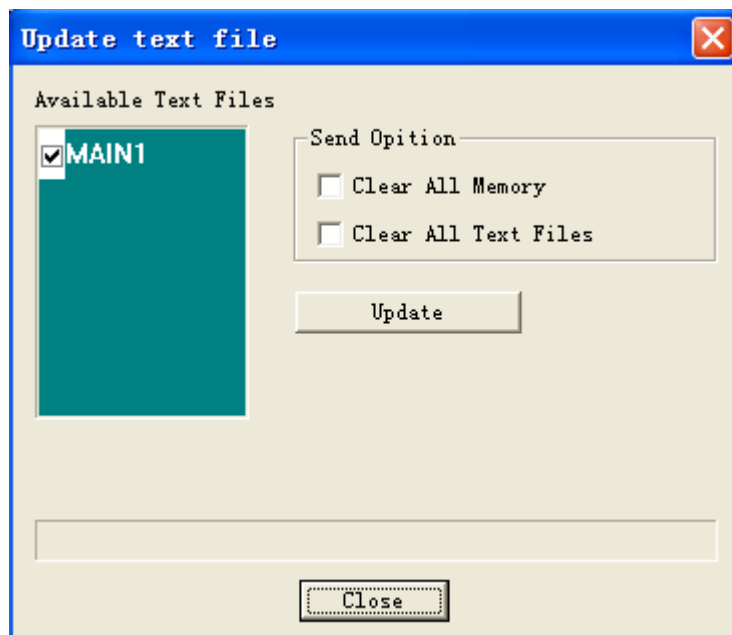
Step24: Select the communication port and the address of sign, then click OK button.

Step25: Click mouse's left-key on 'Set Baud Rate(RS-232)' command under communication settings menu to execute it. A dialog box will be displayed as following.



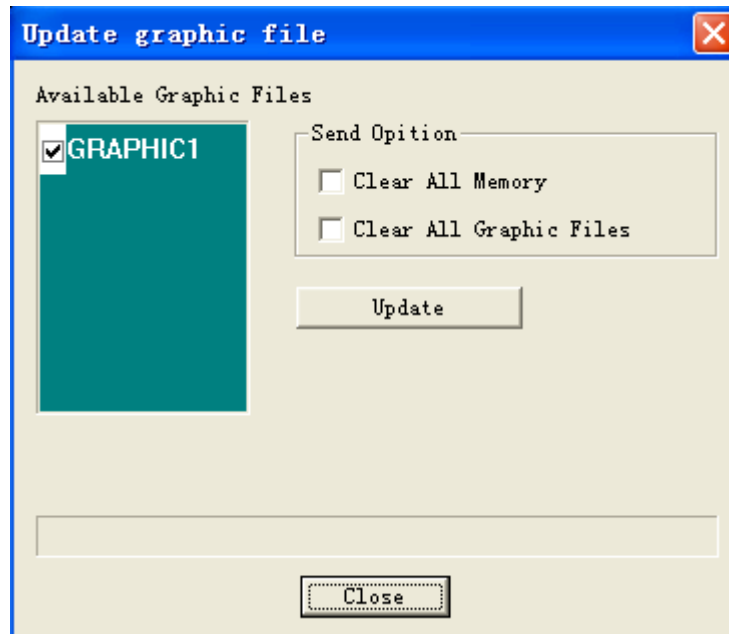
Step26: Select the baud rate from the drop list box in above dialog box. Then click 'OK' button to confirm. The default baud rate is 9600bps.

Step27: Click mouse's left-key on 'Text File' command under update menu to execute it. A dialog box will be displayed as following.



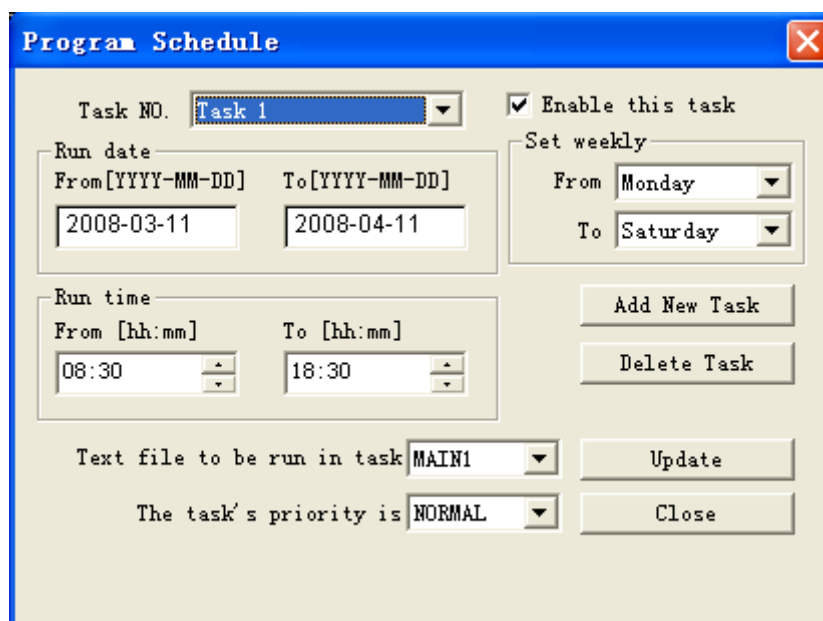
Step28: Click Update button to send selected text file to Moving-Sign.

Step29: Click mouse's left-key on 'Graphic File' command under update menu to execute it. A dialog box will be displayed as following.



Step30: Click Update button to send selected graphic file to Moving-Sign.

Step31: Click mouse's left-key on 'Schedule' command under update menu to execute it. A dialog box will be displayed as following fig (this has click 'Add New Task' to create a task). Use this command to let user set the running start and end date & time of one text file.



Step32: Click Update button to send all tasks to the Sign.

Note: User can send all text files, graphic files and schedules to the Moving-Sign

through execute All command under Update menu.

★ **Remark:** The software operation for RS422 communication mode and RS485 communication mode is the same as the RS232 communication mode. Their difference is the external connection. User can refer to the User manual of LED Multi-Line software for more detailed software operation content.