

MOVE SIGN

ADVANCED ELECTRONIC MOVING SIGN

PROGRAMMING

MANUAL

Contents

1. GENERAL INFORMATION.....	
1.1 Key features.....	
1.2 Technical specifications.....	
1.3 Environmental requirements.....	
1.4 Attaching your sign to a surface.....	
1.5 Connect the Sign with computer by communication cable.....	
2. SETTING OF THE SIGN.....	
2.1 Running environment of the Management Software...	
2.2 Setting specifications of Sign.....	
2.3Turning a sign on and off.....	
2.4 Setting a sign's time and date.....	
3. CREATING A MESSAGE FILE.....	
3.1 Input characters.....	
3.2 Draw graphics.....	
3.3 Adjust the location of the content(characters or graphics).....	
3.4 Set foreground and background colors of the file.....	
3.5 Save file.....	
3.6 Send file.....	
4. CHANGING AN EXISTING FILE.....	
5. ADVANCED FUNCTIONS.....	
6. TROUBLE SHOOTING GUIDE.....	

1. GENERAL INFORMATION

Composed of LED dot matrix, this Multi-lingual Moving Sign can display all kinds of language supported by Windows 95/98/2000 with our software. That means it can display English, Hindi, Arabic, Japanese....etc in the same board.

This Sign is fit for various applications and usage: advertisement, message centers, airports, railway stations, bus terminals, banks, hotels, shopping malls, sports stadium and arena, convention centers, commercial centers and more...

1.1 Key features:

- 1.1.1 Content displayed:** Display all characters supported by WINDOWS9X/2000 as well as symbols, digits, charts, graphics, calendar, time, pre-defined cartoons, etc.
- 1.1.2 Multifold display modes** including 14 import modes, 14 export modes and several append modes.
- 1.1.3 Content-save function:** The content can be kept in this Sign for 3-6 month under status of power- off.
- 1.1.4 Networking function:** Up to 128 pieces of this Signs can be networked by one computer with a RS232-RS422 converter.
- 1.1.5 Time-adjusting function:** The time of Sign can be adjusted to be same as that of computer.
- 1.1.6 Timer function:** There're 8 timers working separately which you can set for closing the Sign's display or displaying some screens repeatedly at some certain period of time.
- 1.1.7 Open / Close the Display of Multi-lingual Moving Sign by computer.**
- 1.1.8 Function of displaying Sign's Address No.:** When the Sign is powered, the Sign's Address No. will be displayed on the Sign automatically for 10 seconds. You also can Display or Close display Multi-lingual Moving Sign Address by computer. This function is designed for over one Signs networking.

1.2. Technical specifications:

- 1.2.1 Display color:** tri-color (red, green, yellow)
Single color (red, green)
- 1.2.2 Communication mode:** RS-232/RS422
- 1.2.3 Transferring speed rate:** 19,200bps
- 1.2.4 Communication distance:**
 - RS232: 15meters
 - RS422: 1200meters
- 1.2.5 Power consumption:** 0.018W/dot for single color
0.036W/dot for double color

1.2.6 Brightness: 500cd/sqm

1.2.7 Pixel normal lifetime: 50,000hs

1.2.8 Maintained duration (power off): 3-6 months

1.3 Environmental requirements:

1.3.1 Indoor use

1.3.2 Environment temperature:

Working environment temperature: 0°C to 40°C

Keeping environment temperature: -30°C to 85°C

1.3.3 Environment humidity: 35% to 90%

1.3.4 Power Voltage: 180V-240V (50Hz-60Hz) or 110V-120V (50Hz-60Hz) in accordance with the power standard in different countries.

1.4 Attaching your sign to a surface:

The sign can be mounted on a wall, ceiling, or counter.

Note: This sign is intended for indoor use only.

Note: •Do not mount or attach the power supply to anything.

- Do not let the power supply hang loose.
- Place the power supply on a flat surface where no chemicals or liquid, such as water, will contact it.
- Plug the power supply into an easily-accessible electrical outlet no further than 15 feet away from the sign.

1.4.1 Wall mount

1.4.1.1 Check whether the wall can support the Display Body;

1.4.1.2 Use screws to fix the semicircular bracket A1, A2 on the Display Body with rectangle side facing Display Body;

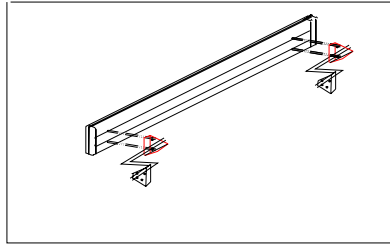
1.4.1.3 Fix the semicircle sides of semicircular bracket B1, B2 on the semicircle sides of A1, A2;

1.4.1.4 Measure the distance between B1, B2;

1.4.1.5 Unload B1, B2 from A1, A2, and fix them on the wall according to above distance with rectangle side facing the wall

1.4.1.6 Use screws to fix the semicircle sides of B1, B2 with the semicircle sides of A1, A2, then the Display Body can be mounted on the wall.

1.4.1.7 Plug the power cord into a nearby outlet.



1.4.2 Ceiling mount

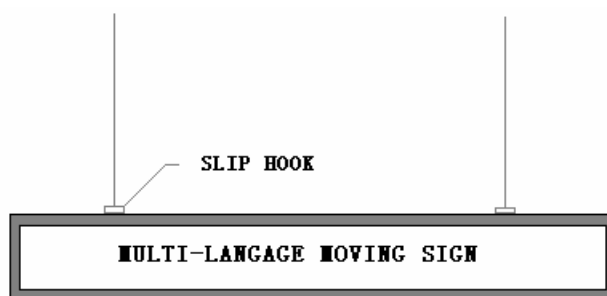
1.4.2.1 Check whether the ceiling can support the Display Body;

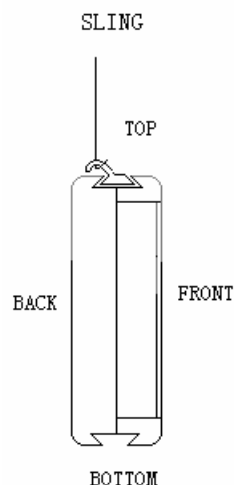
1.4.2.2 Insert the two slip hooks in the groove of top Display Body. Measure the distance between the two slip hooks;

1.4.2.3 Install two slings on the ceiling in accordance with the distance of the two slip hooks;

1.4.2.4 Hang the Display Body from ceiling with the two slings.

1.4.2.5 Plug the power cord into a nearby outlet.





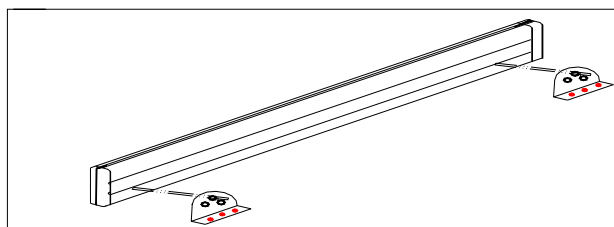
1.4.3 Counter mount

1.4.3.1 Check whether the counter can support the Display Body;

1.4.3.2 Use screws to fix the semicircular bracket A1,A2 (or B1, B2) on the Display Body with semicircle sides facing the Display Body;

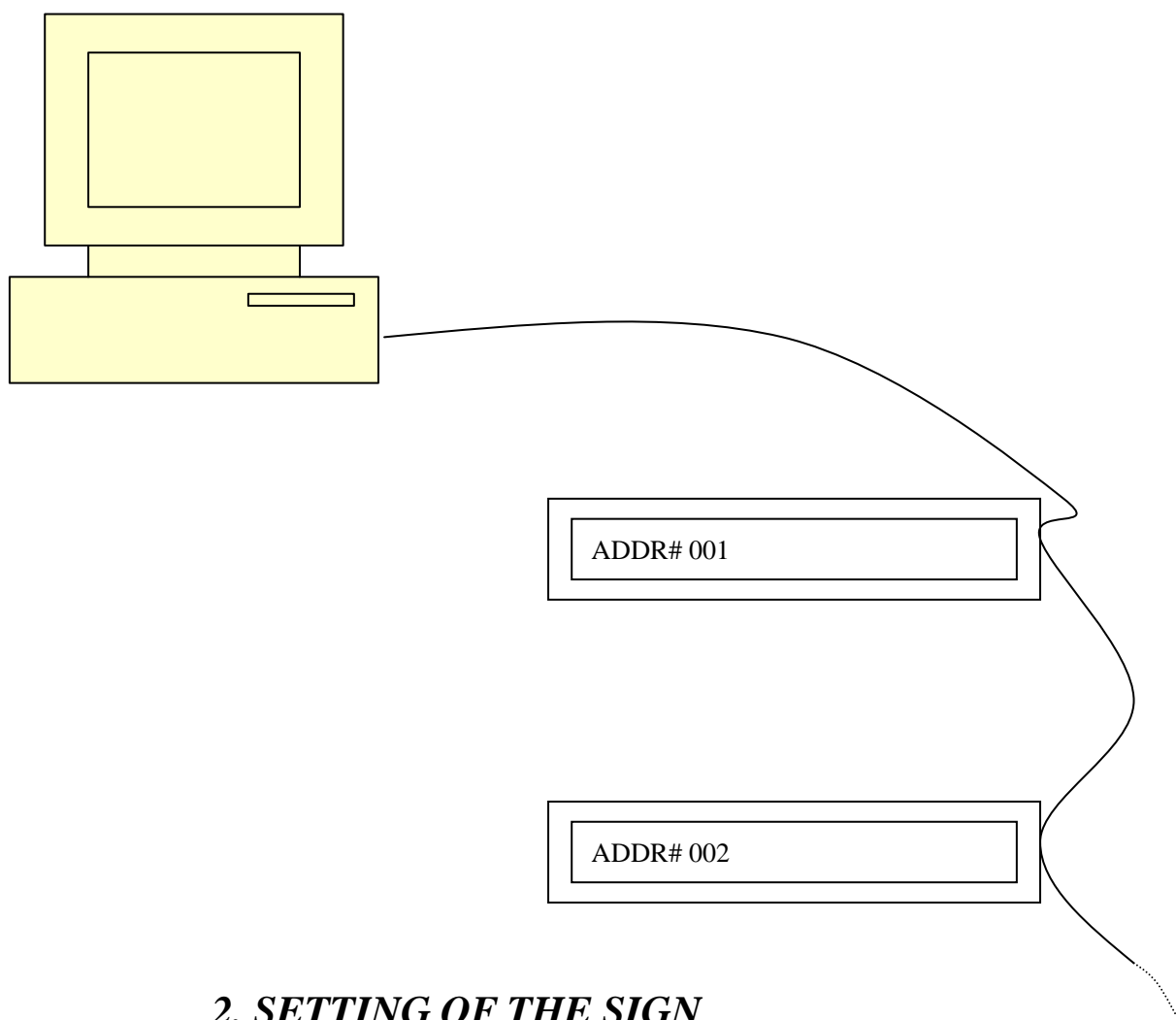
1.4.3.3 Use screws to fix the brackets on the counter with rectangle side facing the counter, then the Display Body can be mounted on the counter;

1.4.3.4 Plug the power cord into a nearby outlet.



1.5 Connect the Sign with computer by communication cable.

Messages are sent to the sign using a computer with special connectors and computer software provided by us. Connect computer and the Sign by communication cable like below:



2. SETTING OF THE SIGN

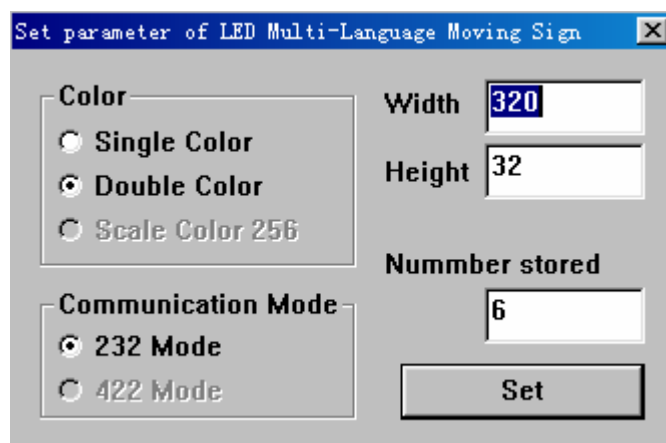
2.1 Running environment of the Management Software

The computer must be Window 9X version, 10M empty hard disk, 200MHz CPU or over.
Advice you set the monitor with 800*600*16bits.

2.2 Setting specifications of sign

Copy the control software from disk A to your hard disk. Double click mouse left to run this software.

There would be a dialog box:



According to the model you operate, set

Color: Single color for model LM16-5R10D

Double color for model LM16-5RG10D

Communication Mode: RS232 Mode/RS422

Width: 160

Height: 16

Number stored:

Max. 163 screens for model LM16-5R10D

Max. 81 screens for model LM16-5RG10D

Click **SET** to confirm.

2.3 Turning a sign on and off

When you plug in the sign's power supply, the sign starts up automatically, and unplugging the power supply turns the sign off.

However, instead of unplugging a sign, you can open or close the Sign by computer(Please reference to No. 5.2 for details). You also can close the display of the Sign by TIMER.

Note: Messages that you have programmed into the sign will not be lost when you turn a sign off. Messages will be retained for up to 5 months.

2.4 Setting a sign's time and date

Select the ADJUST TIME under submenu SEND, set the time and date synchronous with computer. You will see a dialogue box, set desired Sign's Address numbers and the beginning location of the time which will be displayed when you select TIME on 5.3.6.1.

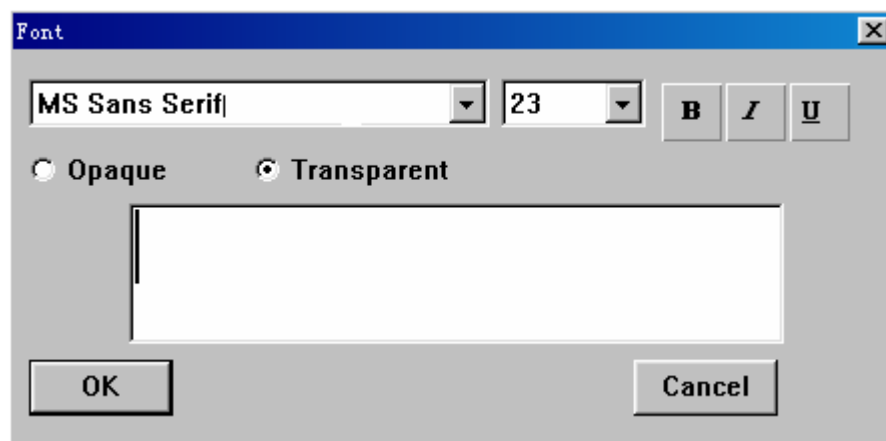
Once set, a sign will remember the time and date. If you find the time is not accurate after a long time, reset it by the same way.

3. CREATING A MESSAGE FILE

Select SEPARATE LINE under submenu VIEW, then the editing area will be divided into many rows. Each row is one screen. You can input characters, drawing graphics or combine them to make up of a message file as you like:

3.1 Input characters:

Click **A**, a dialogue box appears.



Input any characters supported by Windows 9X. Select font, character size, bold, underline, background (opaque or transparent) . If you select transparent, there's only foreground color, no background color. If you select opaque, you can select foreground and background color both.

Click **OK** to confirm or **CANCEL** to clear and reset.

3.2 Draw graphics: According to your need, select relevant graphic tool from the left Toolbar.



3.3 Adjust the location of the content (characters or graphics):

From the separate line, you can see how many screens each content you input occupies.

Select it first, then move it to adjust its location easily just like relevant operation of Windows. Click the symbol on the second row of Toolbar above, center it vertically or horizontally.

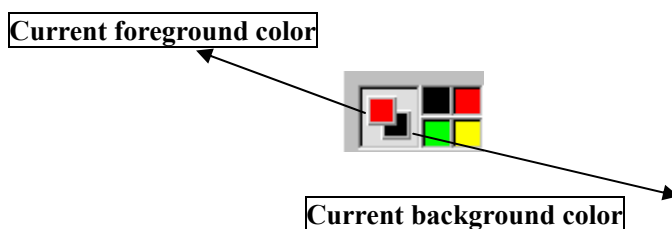


If you are not sure about the location of some content, you can click ZOOM symbol to enlarge it and see clearly.



3.4 Set foreground and background colors of the file:

Select the part that needs to set foreground and background colors, then select.



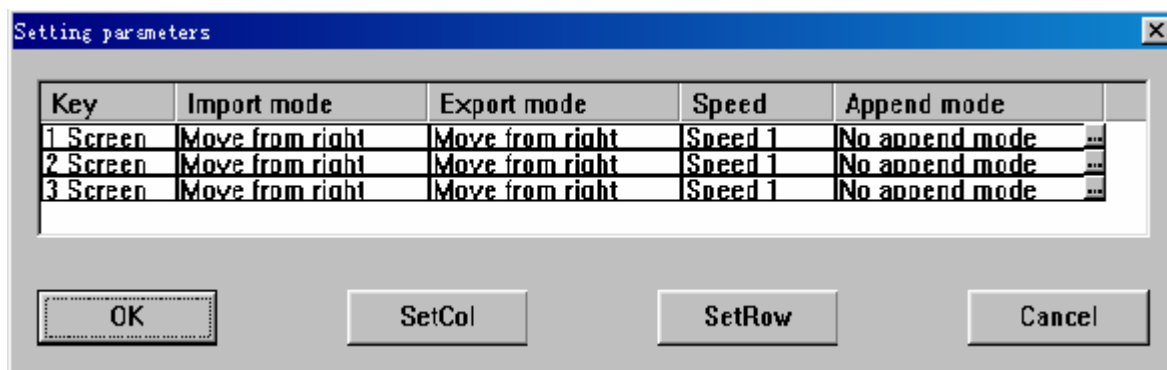
Foreground color: Click mouse left to select desired color as foreground.

Background color: Click mouse right to select desired color as background. * If you select Transparent on 5.3.1, there's no background color available.*

3.5 Save file: Click SAVE under submenu FILE, save the current file into PC for future use.

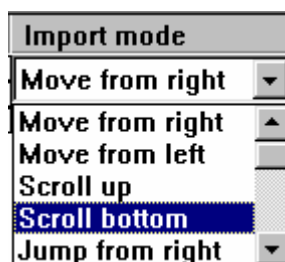
3.6 Send file: Click SEND FILE under submenu SEND, a dialogue appears.

You can see how many screens the file occupies.



3.6.1 Select Import Mode, Export Mode, Speed, Append Mode for each screen separately.

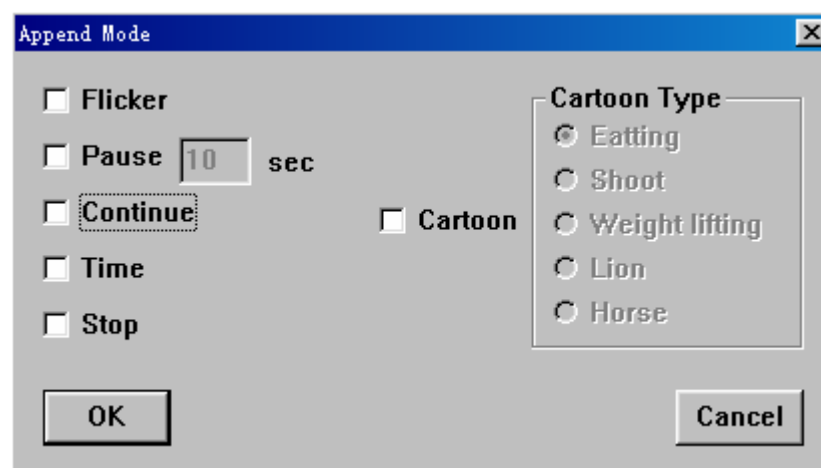
Import Mode: Move from right, move from left, scroll up, scroll bottom, jump from right, jump from left, open from right, open from left, open from bottom, open from up, open from both sides, cover from center, cover from both sides, immediate, ready, random.



Export Mode: Move from right, move from left, scroll up, scroll bottom, jump from right, jump from left, open from left, open from right, open from bottom, open from up, open from center, open from both sides, cover from center, cover from both sides, immediate, ready, random.

Speed: Speed 1,2,3,4,5,6,7

Append Mode:



Flicker: After importing, the screen will flash three times.

Pause: Input some seconds, the screen will pause for certain seconds after importing.

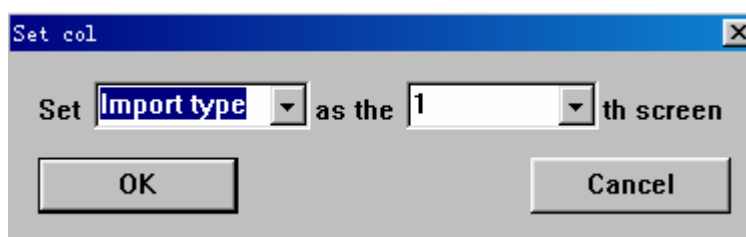
Continue: One screen follows foregoing one, there's no pause between two screens.

Time: Between this screen and the following screen, there're current time and date displayed.

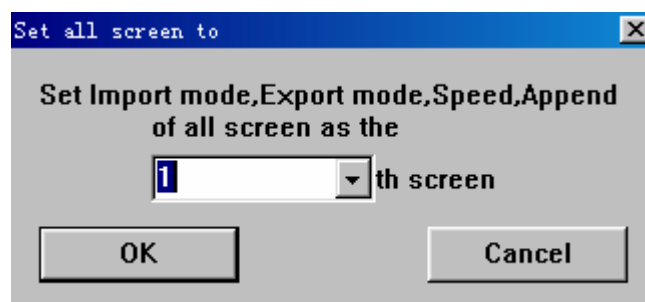
Quiescence: After importing, the screen will stay on the sign till another screen imported.

Cartoon: Select one of them, then the cartoon will be displayed after importing a screen.

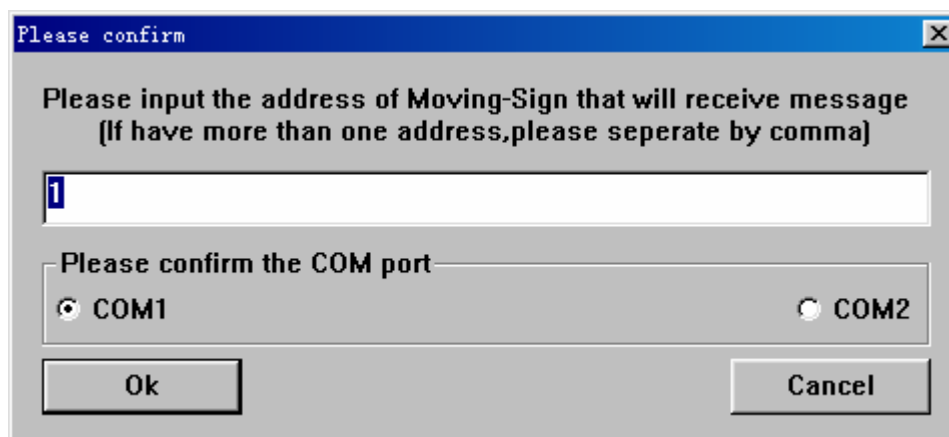
3.6.2 If there're many screens, you want to set the import mode(or export mode, speed, append mode) of all screens same as that of screen 1 (or any other screen), click **SetCol** and select screen 1 (or other) in the following dialogue box.



If you want to set the import mode, export mode, speed and append mode of all screens same as those of screen 1 (or any other screen), click **SetRow** and select screen 1(or other) in the dialogue box below, then click **OK**.



3.6.3 Set COM Port and Sign's Address number which will display the file.



Input the Sign's Address number which will display the file. If you network more than one Sign, separate the Signs' Address numbers by comma.

Select COMPORT.

Click **OK**, the file will be sent to the desired Signs and displayed by the way you set above.

4. CHANGING AN EXISTING FILE

Click Open under submenu FILE, find your needed file saved before. Edit it and send it to some Sign, or send it directly. For other operating procedures, please reference to No.3 above.

5. ADVANCED FUNCTIONS

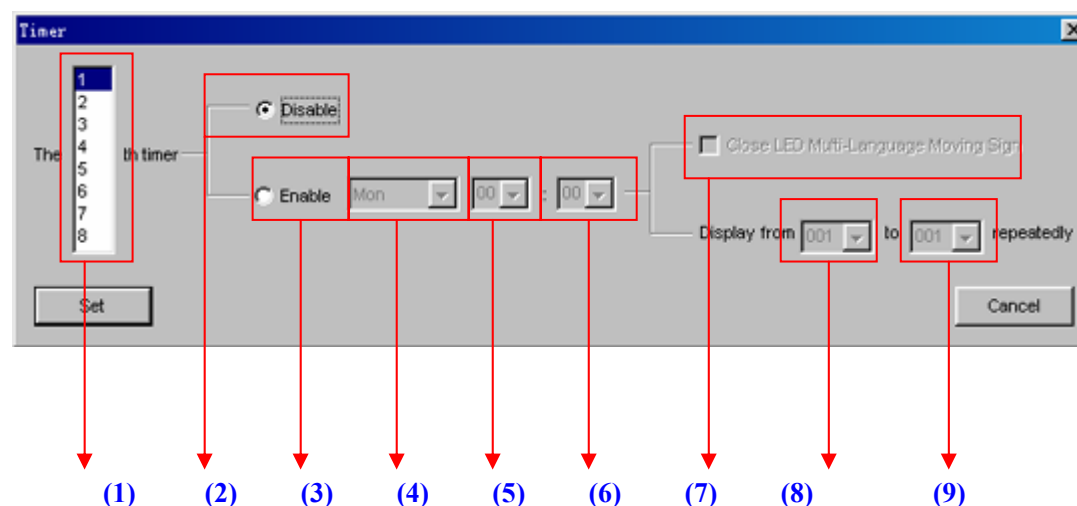
You can select some advanced functions from the above Submenu EDIT, SEND, VIEW.

5.1 Adjust Time: Adjust the time of Sign to make it same as that of computer. Set desired Sign's Address numbers. Set the beginning location of the time which will be displayed when you select TIME on 5.3.6.1.

5.2 Open / Close Multi-lingual Moving Sign by computer

5.3 Display/ Close display Multi-lingual Moving Sign Address

5.4 Timer: There're 8 timers working separately. You can set them for closing the Sign's display or displaying some screens repeatedly at some certain period of time.



- (1) Timer's Number: total 8pcs.
- (2) Disable Timer function
- (3) Enable Timber function
- (4) Date: From Monday to Sunday
- (5) (6) Timer work-beginning Hour and Minute
- (7) Select it, this Timer is set for closing display of Sign
- (8) (9) Set the first and last screens to display repeatedly controlled by Timer.

5.5 Import/Export an image file (*.bmp)

5.6 Cut/copy/paste/select all/delete functions under submenu EDIT are same as those of Windows.

5.7 Networking: Up to 128 pieces of this Signs can be net worked by one computer with RS422 communication jack.

6. Trouble Shooting Guide:

6.1 Run this Sign frequently when the season is moist.

6.2 If the file couldn't be saved, it may be caused by lack of battery inside the Sign. Display the battery.

6.3 If 'Communication Error' appears during sending files from PC to the Sign, it is possibly because:

6.3.1 Something wrong with your PC COM PORT;

6.3.2 The communication cable cut;

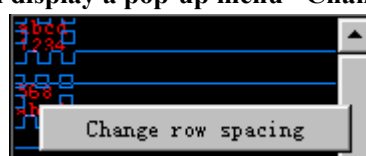
6.3.3 The communication cable connects PC and the Sign infirmly.

6.4 Please contact with the professional for other troubles.

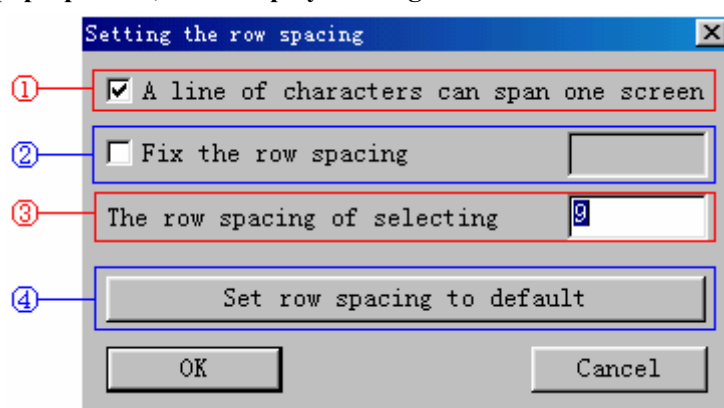
7.The supplement of message file:

When user want to display more than one row text in one screen, if the font size is fitting, the program will arrange multi-row in one screen automatically. If user wants to change the row space between manually, please do it as follows:

- 1) User must use the left-mouse to select the text object that will be changed.(If user want to select more than one text object, please press the 'shift' key when selecting)
- 2) Click the right-mouse, it will display a pop-up menu "Change row spacing" as follow.



Click this pop-up menu,it will display a dialog as follow:



(1): Check this check-box control is mean that: if one row text is too height, this row text can span one screen. Another way of saying this is that: some part of this row text is in one screen, another part of this row text is in another screen.

If un-check this check box control, when one screen can't contain one row text, the program will place this row text into next screen, so it can guarantee that one text row always is in one screen.

(2): Check this check-box control is mean that: the row space between of all text objects(not only the selected text objects) are the value which is in the edit-text control.

If check this check-box control, the **(3)** is inefficacy.

If the value of edit-text control is -1,it is mean that the row space between is arrange by program automatically. User can't input -1 directly, but can click **(4)** button to set this value to -1.

(3): Check this check-box control is mean that: the row space between of selected text object are the value which is in the edit-text control.

If user want use this value, user must un-check the **(2)** check-box control.

(4): Click this button to set all value to default value. It mean that: the program will arrange the row space between automatically.

Notes: The "row space between" is equal to ΔX as follow:

01234 $\updownarrow \Delta X$
567890