ultimedia led 2006

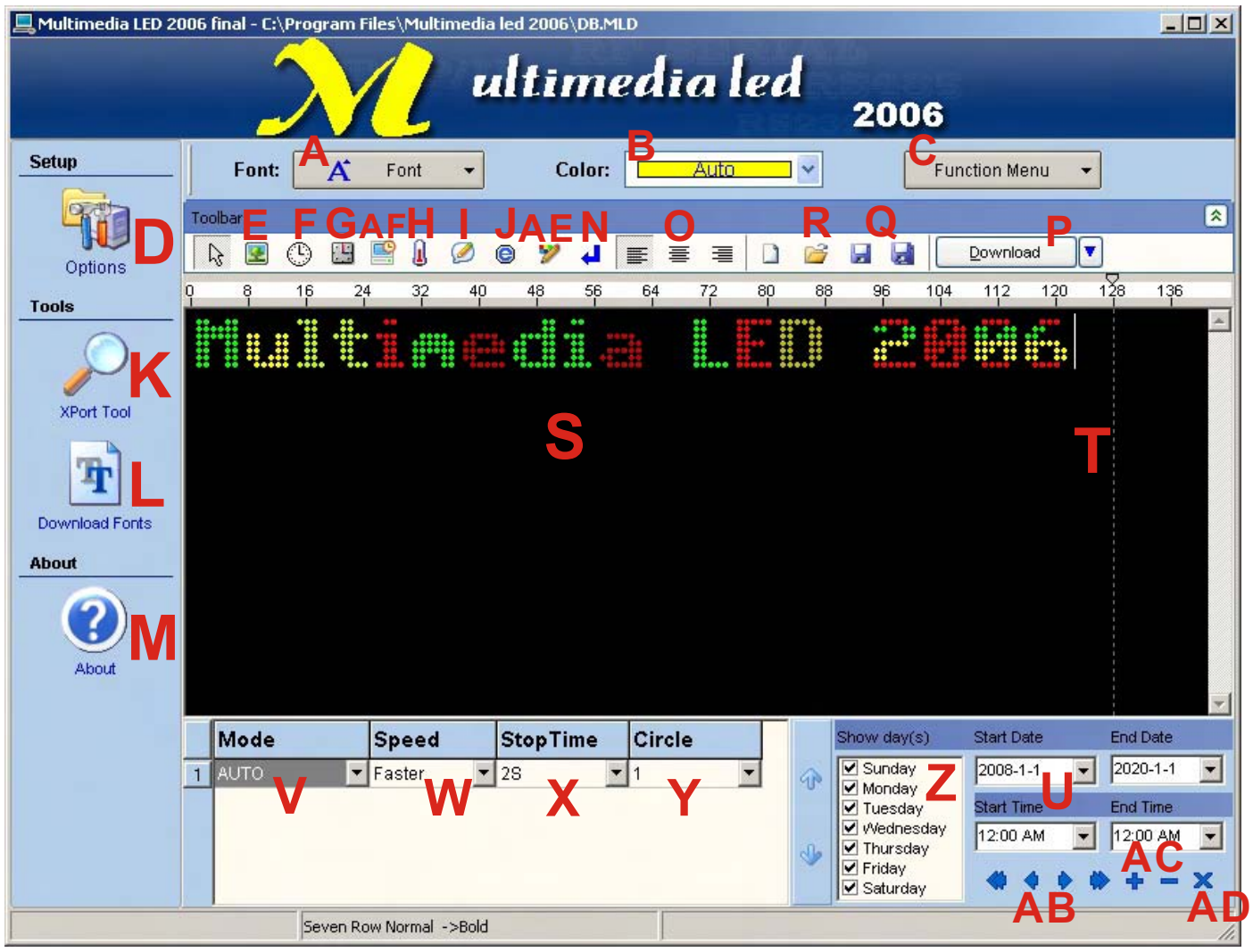
SOFTWARE USER MANUAL

Contents

General information----------1
Screen layout and overview----------1
Beginning Text Messaging----------2
Select communication mode----------2
Create text----------3
Extra Text----------3
Advanced Text Messaging----------4
Inserting Bitmap files----------4
Inserting the real-time clock----------6
Inserting a Count Down Timer----------7
Inserting a Count Up Timer----------8
Insert the temperature----------8
Insert a variable----------9
Inserting symbols----------9
Pre-define message show days and times----------10
Pre-define power on/off times----------11
Adjusting sign brightness----------12
Setting the password----------13
Send messages to sign using RS232 communications----------14
Send messages to signs using RS485 communications----------15
To download to all signs----------15
To download to a group of signs----------15
To download to an individual sign----------15
Send messages to a sign using TCP/IP communications----------16
Remote Access over the Internet----------16
Setting up the software----------16
Send messages to several signs using Multimedia Download----18
Setting up GSM communications----------19
Setting the LED Sign equipment number(unit address)----------20
Makeing and Editing Fonts----------21
CTRL+F3 Do not use unless you have a specific setup requirement----------24

The Multimedia LED messaging software allows you to send messages from a PC to your sign. After you install the software and run it , then you should see as below:

Screen layout and overview

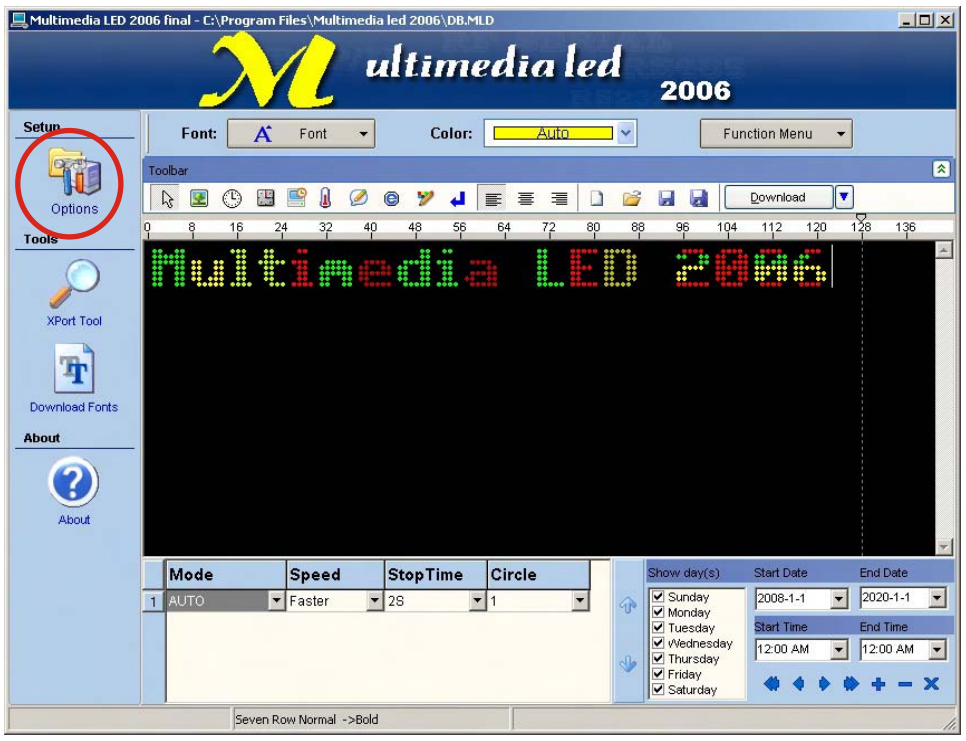


A--Font: From 5 rows to 31 rows in Height	B–Color: 12 colors available.
C–Function Menu: Includes: “**Preview**” **:** to preview the message before sending to the sign; “**Multimedia Download**” **:** used for TCP/IP or RS485 communications to multiple signs; “**Image Edit**” **:** used for creating images; “**Font Make**” **:** used for creating fonts; “**Language Editor**” **:**used for creating or changing the text used in the software . “**Language**” **:**select the language used by the software. “**Fonts**” **:**select the font used by the software. “**Run when windows start**” **:**when selected, the software will run when you turn on your pc.	D–Options: In this menu, you can set parameters, such as communication mode, Brightness, power on/off time, password, screen number, etc.
	E–Insert Bitmap: Insert graphics created in “Image Edit”.
	F–Insert date/time: Insert real-time clock or date into the message.
	G–Insert countdown: Insert countdown time and date into the message.
H–Insert temperature: Insert temperature. (Note: needs factory fitted hardware to work)	I–Insert variable: Insert variable.
J–Insert symbol: Insert pre-defined symbols.	K–X-Port Tool: Used for searching for Ethemet signs ans setting/ editing the IP Address of the sign.
L–Download Fonts: Download fonts to the sign(Note: After you update firmware or create new Fonts , you must download them to the sign.	M–About: Get information about this software.
N–New Line: Click it to stat a new line. (Note: You must set this function under “Environment Setup” in “Options”)	O–Align: Include Align Left/Right/Cen ter.
P–Download: Send messages to sign.	Q–Save as: Save *.mld message file onto the pc.
R–Open: Open *.mld file previously created and saved.	S–Messaging window: Type the messages you want to show on your sign here.
T–Align line: Measure whether of not length of message on software is greater than the real length of the sign.	U–Start Show Time/End Show Time: Pre-define message start and end time. (Note: the sign needs to be set in the “expand mode”under “Led mode”and“play on time”under“select play mode” in “Option”.
V–Mode: 28 different display modes available.	W–Speed: 5 speeds available.
X–Stop Time:10 stop times available.	Y–Circle: Allow you to repeat the current message file 1 to 9 times, so you can save memory space in the sign and have longer messages.
Z–Show days: Pre-define show day(s) of the message(Note: the sign needs to be set in the “expand mode” under “Led mode” and “play on time” under “select play mode” in “Option”	AB–Prior/Next record: Make switch between message files.
AC–Insert/cancel record: Insert or delete message files.	AD–Post/cancel edit: Save current message file or cancel changes to the message file.
AE–Insert Extra Text: You can insert text in other languages, or show text in a different font.	AF–Insert count up: Insert count up time and date into the message.

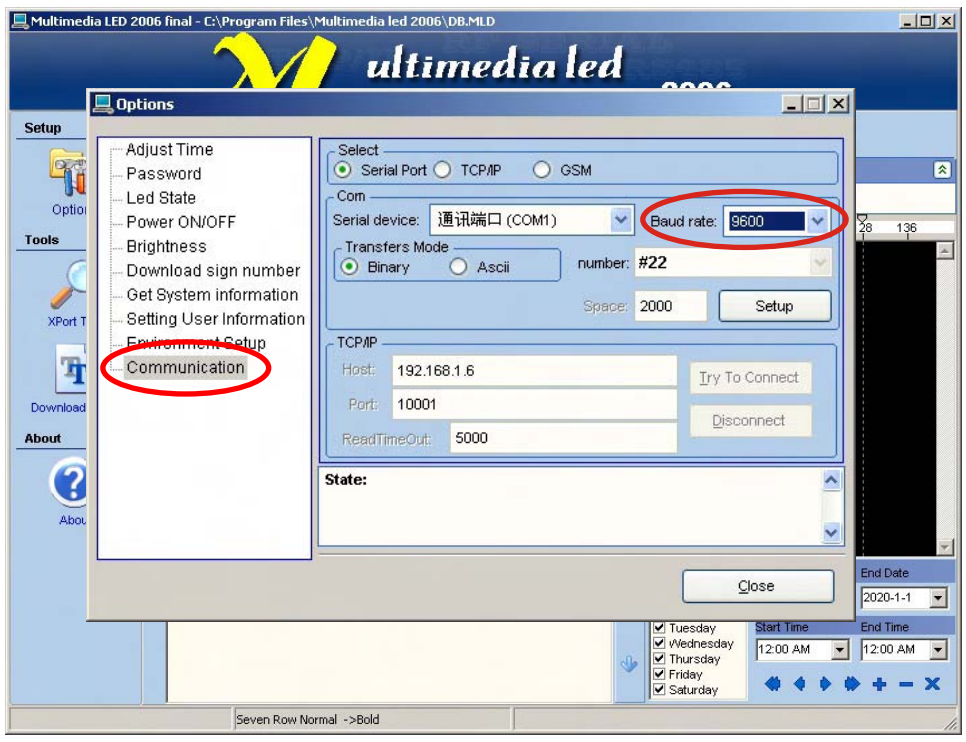
Select communication mode

Note: Before you edit and send the information to the sign, you must choose the right communication method and make sure the sign is connected to the PC.Please see sections on connecting up your sign using various methods–RS232,RS485,TCP/IP and GSM.

Step1 Click “Options”.

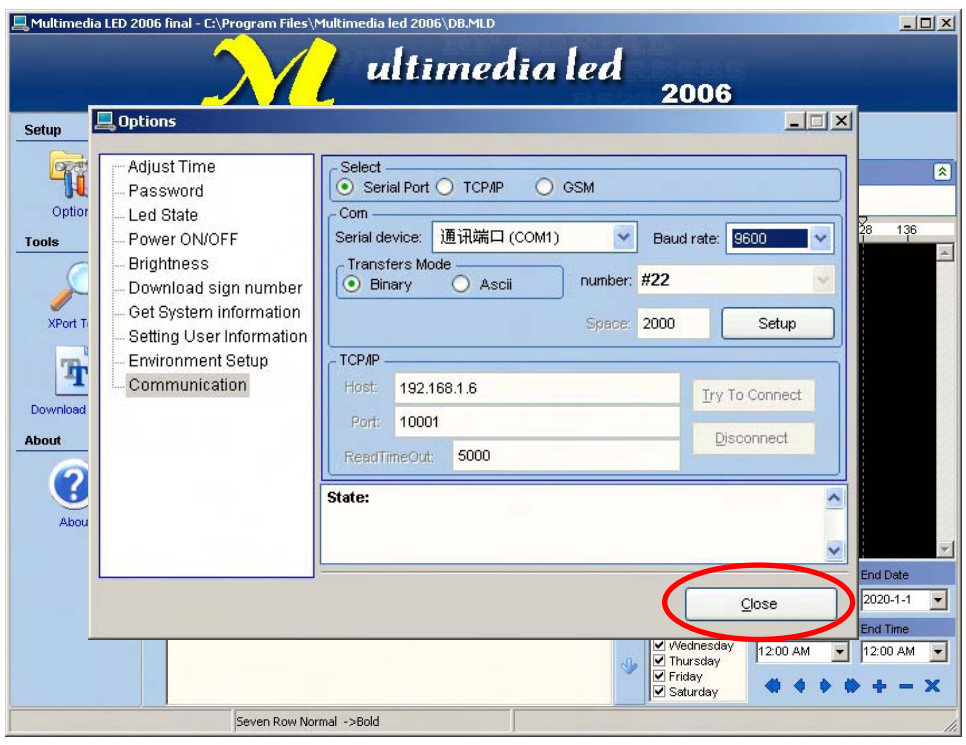


Step2 Click “Communication”.
Set “Baud rate” to 9600.



Note:
If you use RS232 or RS485 communications, you should select “Serial port--Binary ”.
If you use TCP/IP communication for only one sign, you should select “TCP/IP”.
If you use GSM communication,you should input the telephone number.the telephone number should be Gotone.

Step3 Click “OK”.



Creating text

Note: Before you create text, you should click “Download Fonts”, especially after you update the firmware or save new fonts in the software.

Step1 For example, type “Welcome” in messaging window.

Copy and paste: You can copy content from WORD or EXCEL document, and paste into the messaging window.

Set font and color: Highlight text first, then set font size under Font: Font and character color under Color: Auto .

Set mode, speed and stop time: Set the required display mode, speed and the time in seconds you want the message to stop for.

Align: You can align text Left/Right/Center by clicking

Add new line: Press Enter on keyboard of click .
Note:Before you use this function, you should choose which mode you want, this is under “Environment Setup” in “Options” menu.
If you choose Insert New Line with Enter , this means that, once you click on software or click “Enter”, a new line will be on the sign.
If you choose Do Not Insert New Line with Enter , then if you click on software, there is a new line on the sign, but if you click “Enter”, there is no new line on the sign.

Step2 Click “Download Text”.

Download text: If the message is only text, then click it, the inside symbols, countdown, time, temperature, etc, are all belong to text;

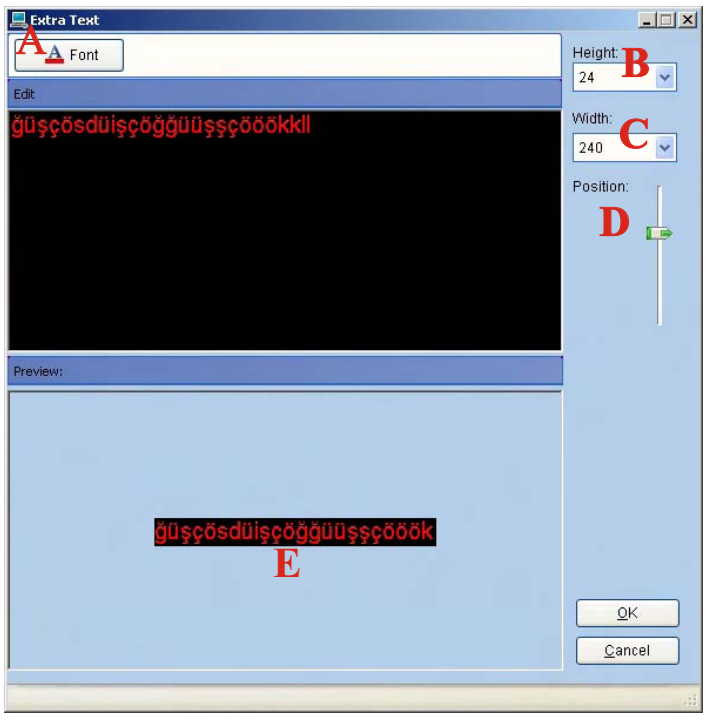
Download All: Download text and bmp picture from you PC to your sign. For picture, you only need download one time by clicking Download All, for second time, you only need click Download text, because the picture had been already stored on the software and is viewed as text by system.

Extra Text

If you want to send other languages or text in PC fonts to the led sign , you can use “Insert Extra Text”.

Step1 Click 

Step2 Edit the text you want to send to sign



A-Font: Click″Font″, you can set the font,size,color etc

B-Height: Set the sign's height

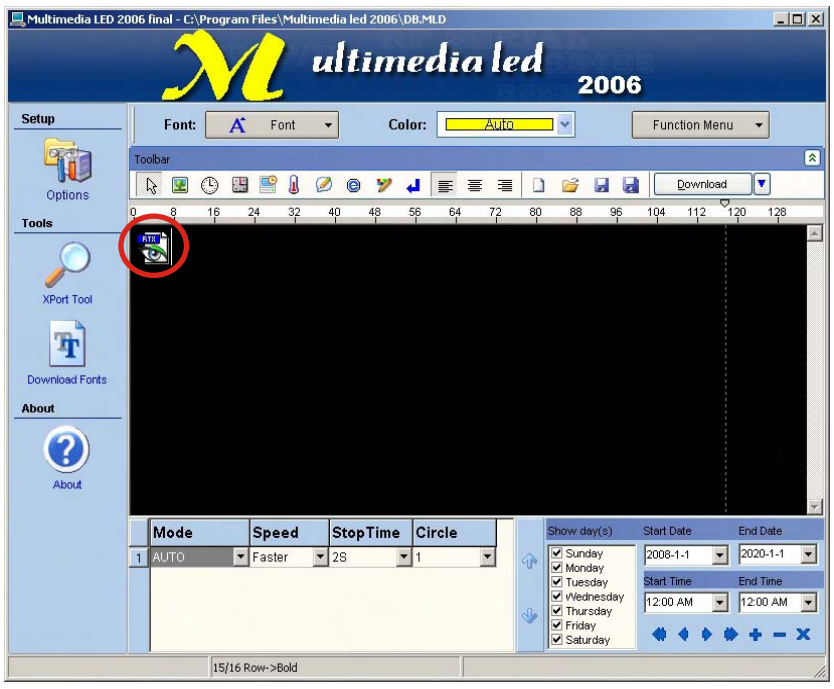
C-Width:Set the sign's width

D-Position:Adjust the text's position on the sign.

E-Preview: So you can preview the text

Step3 After editing,click "OK", the text be shown as a "BMP" file.

Step4 If you want to modify the text , double click  , return to the step 2 and edit the text.

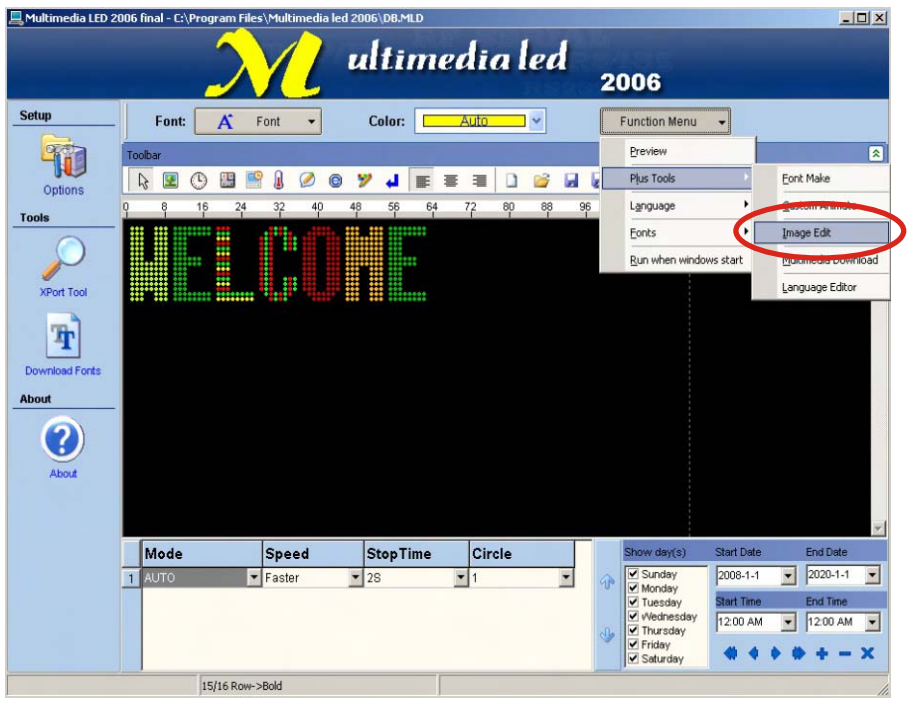


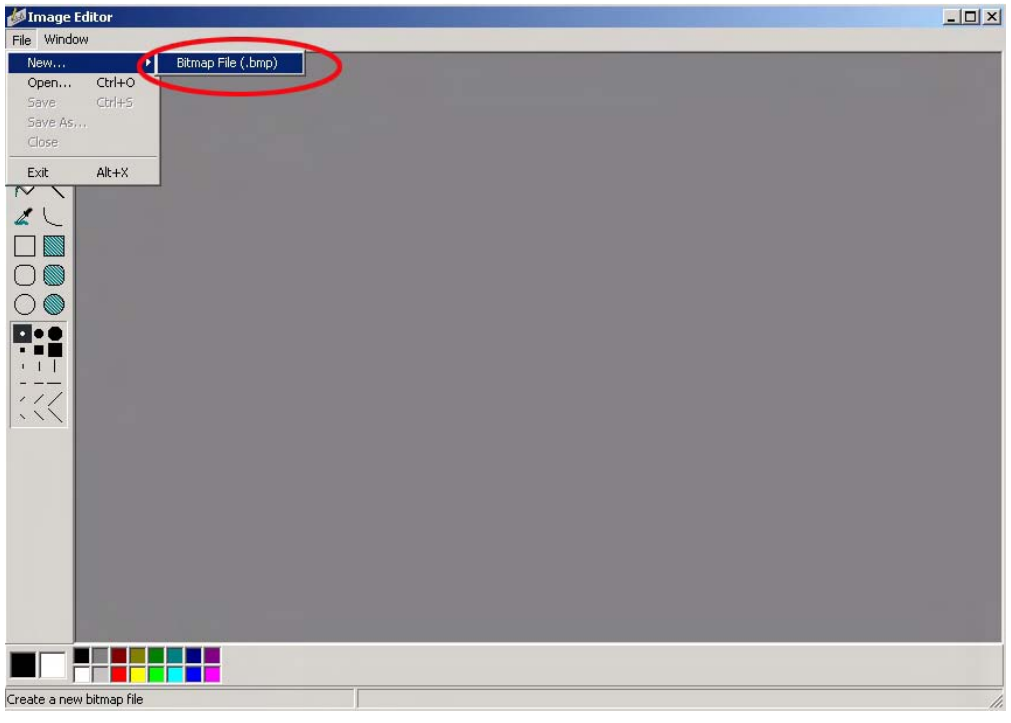
Advanced Text Messaging

Insert Bitmap file

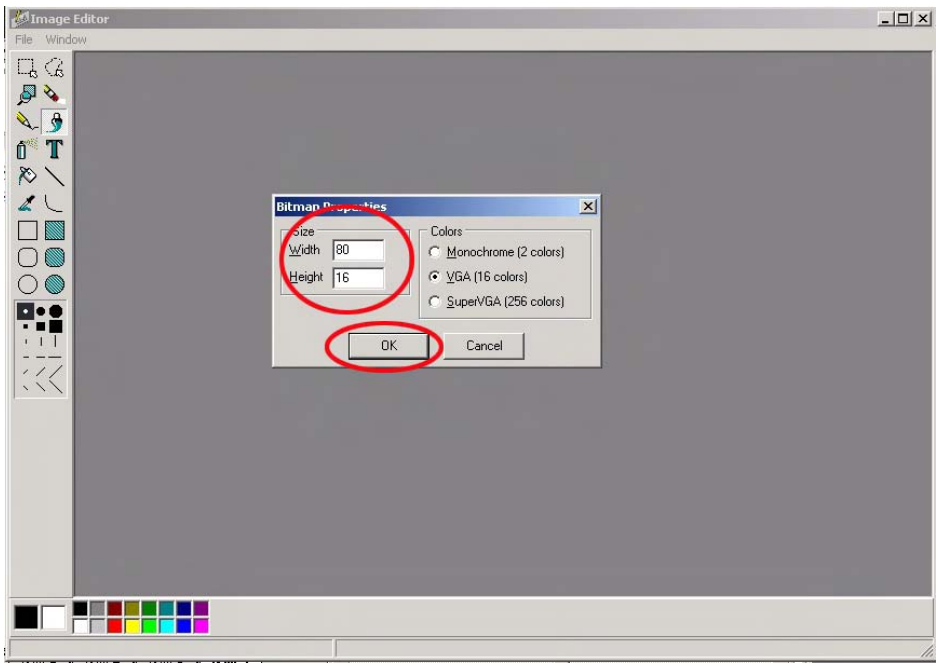
Step1 Click on "ImageEdit".

Step2 Click "Bitmap File".

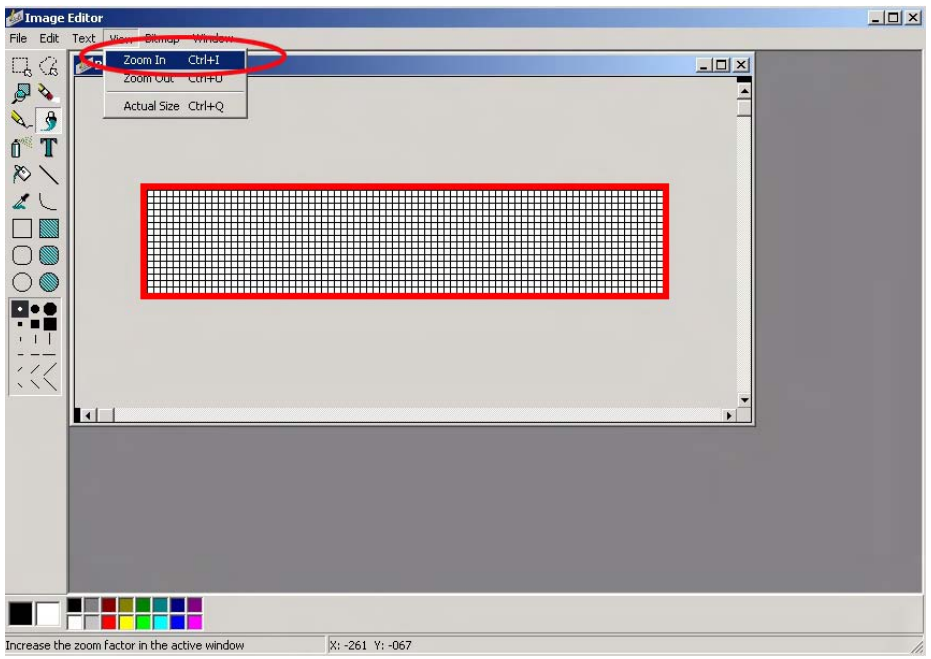




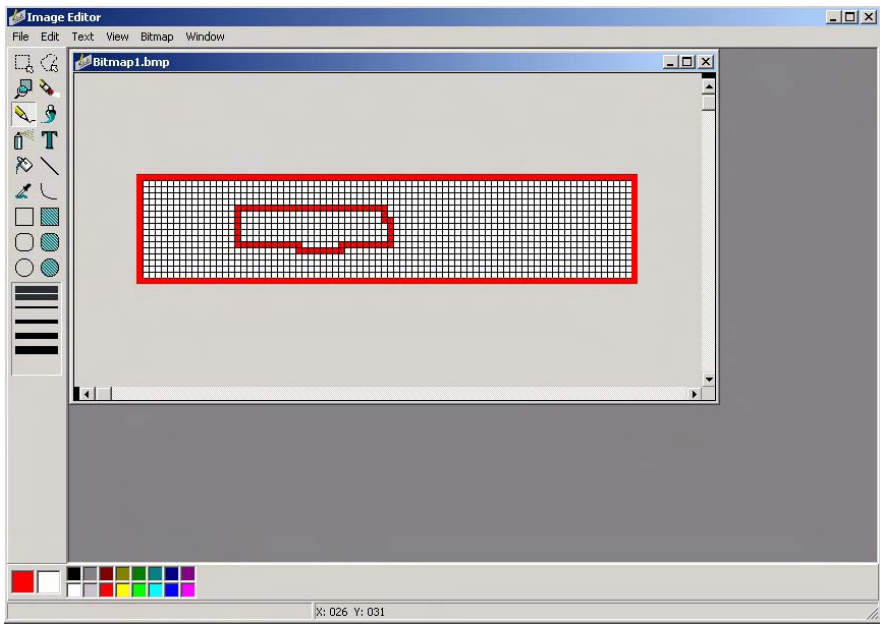
Step3 Set the size and color for the image to the actual size of your sign. Then click “OK”.



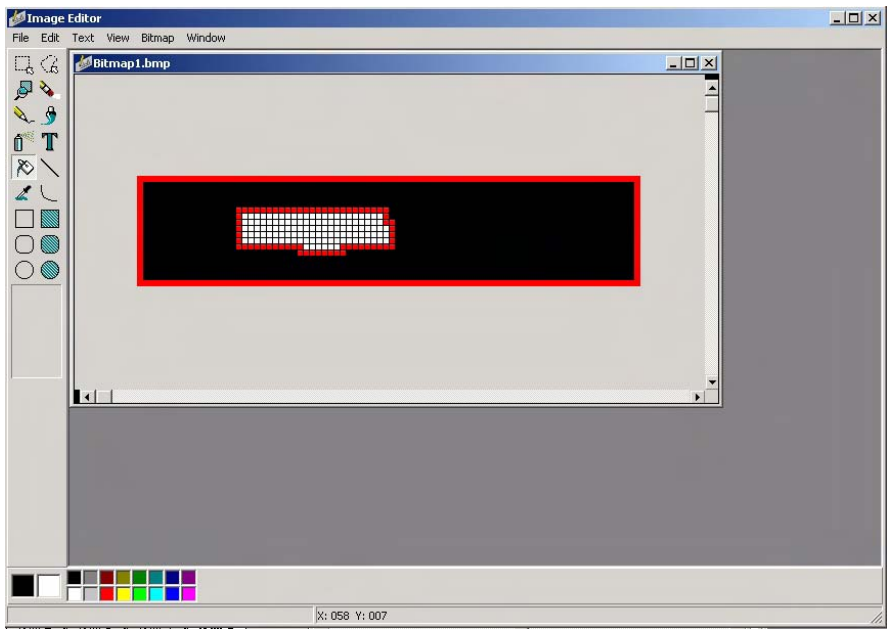
Step4 Click “zoom in” many times to enlarge the edit area



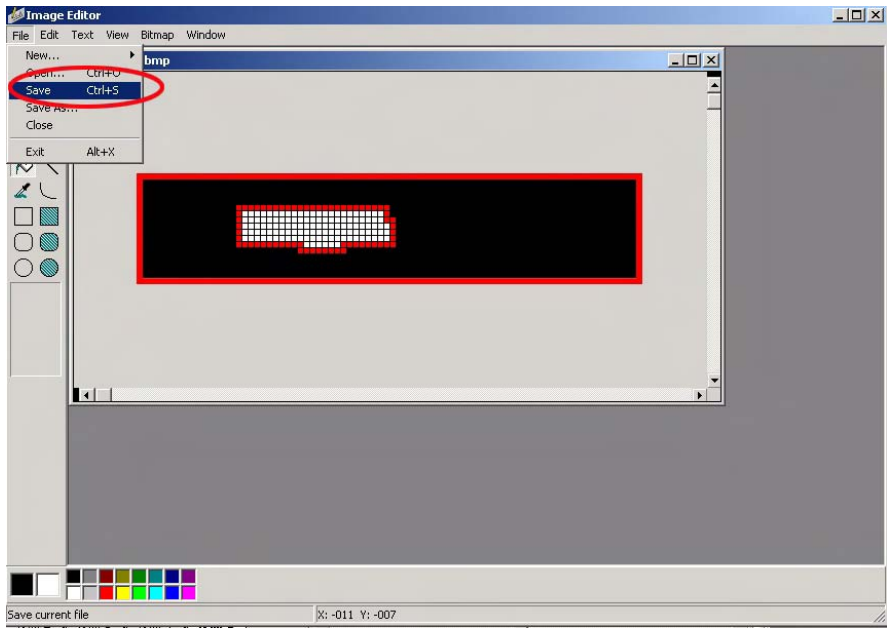
Step5 Draw your picture in the edit area.



Step6 Fill the background with black（or it will light all the LEDs if it is white）.

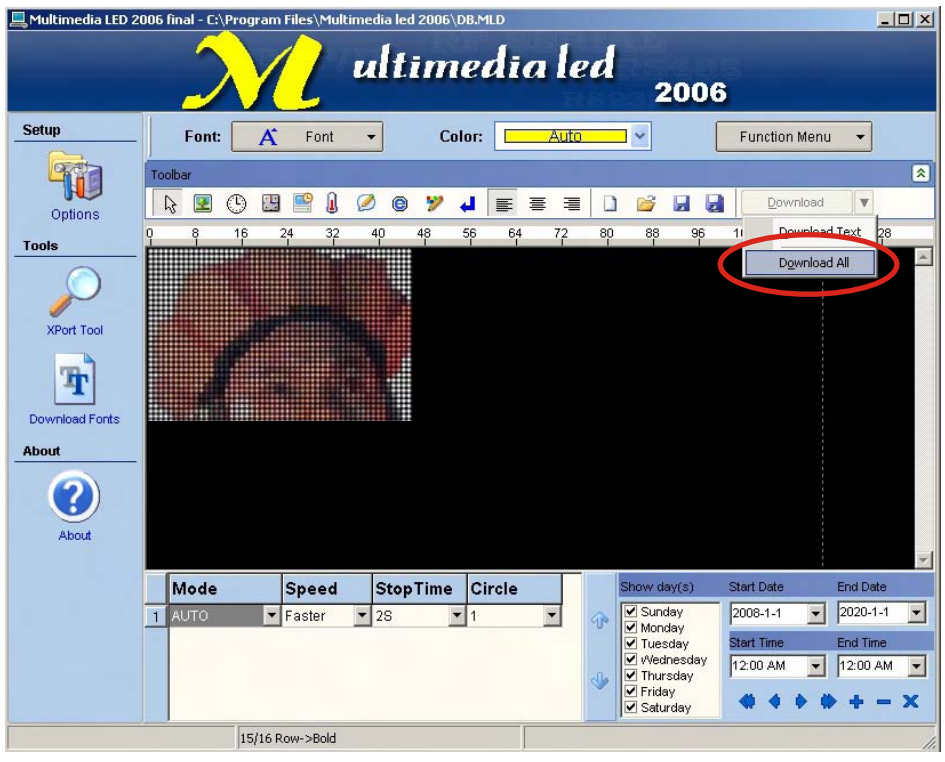


Step7 Click “Save” to save the picture onto the PC as *.BMP file.



Step8 In Multimedia LED, Click to open the *.BMP file.

Step9 Click “Download All”.

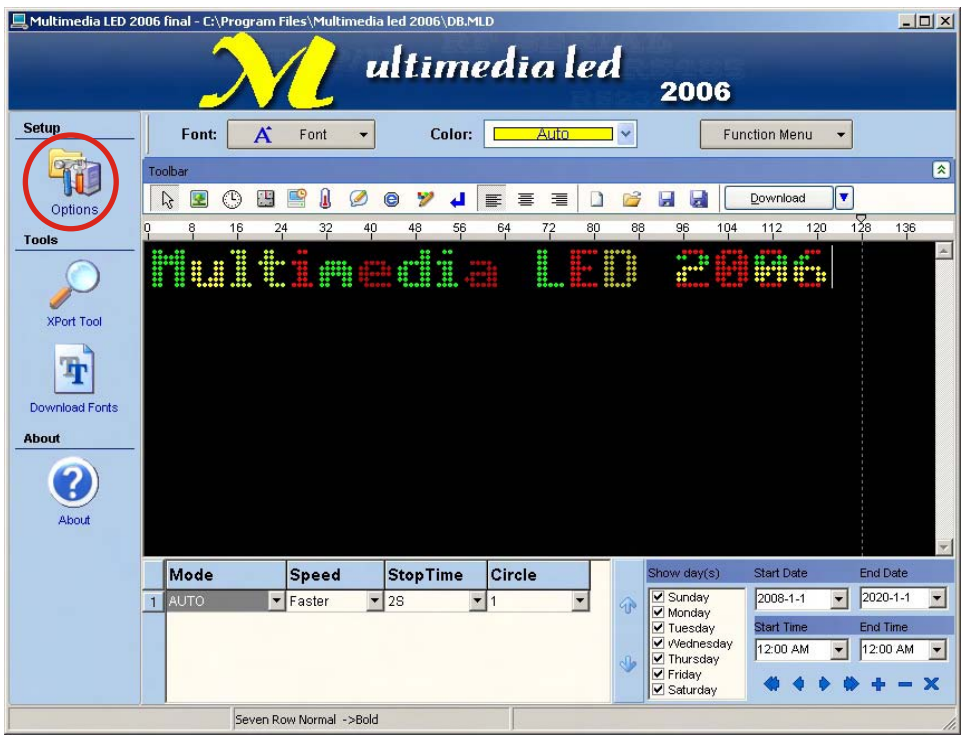


Insert real-time clock

To set the time on the sign

Step1 Click 

.

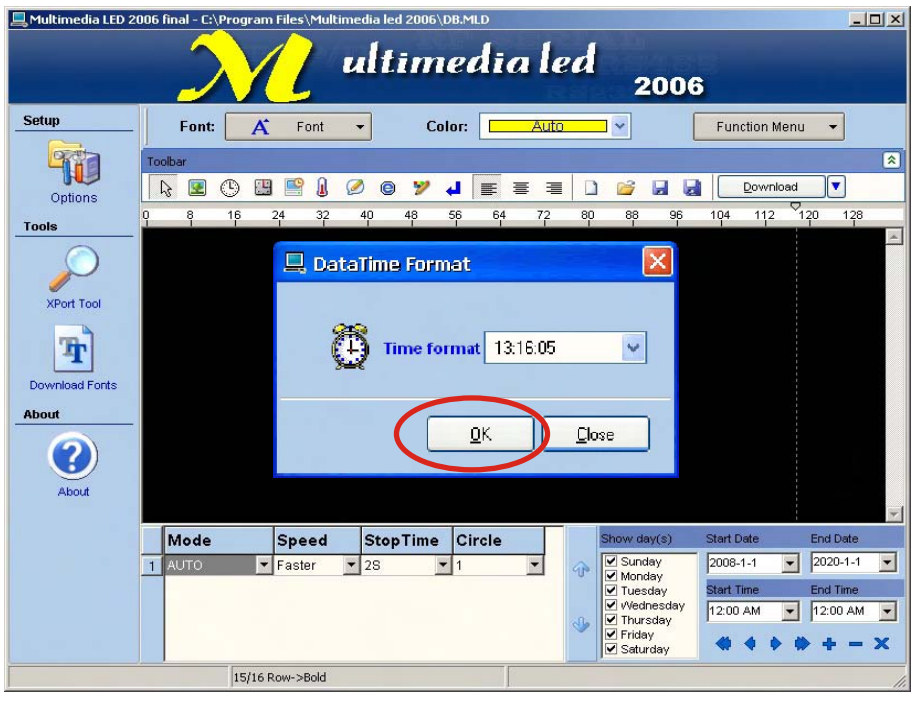


Step2 Click “Download Time”, then click “OK”.

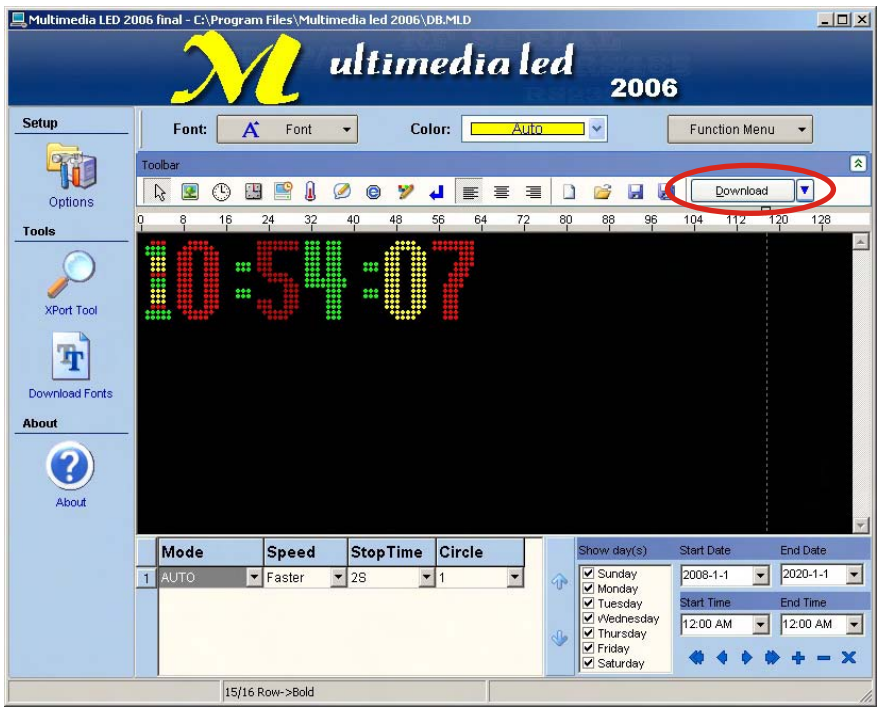
To show the time or date in a message

Step3 Click 
.

Step4 Select the time format, then click “OK”.

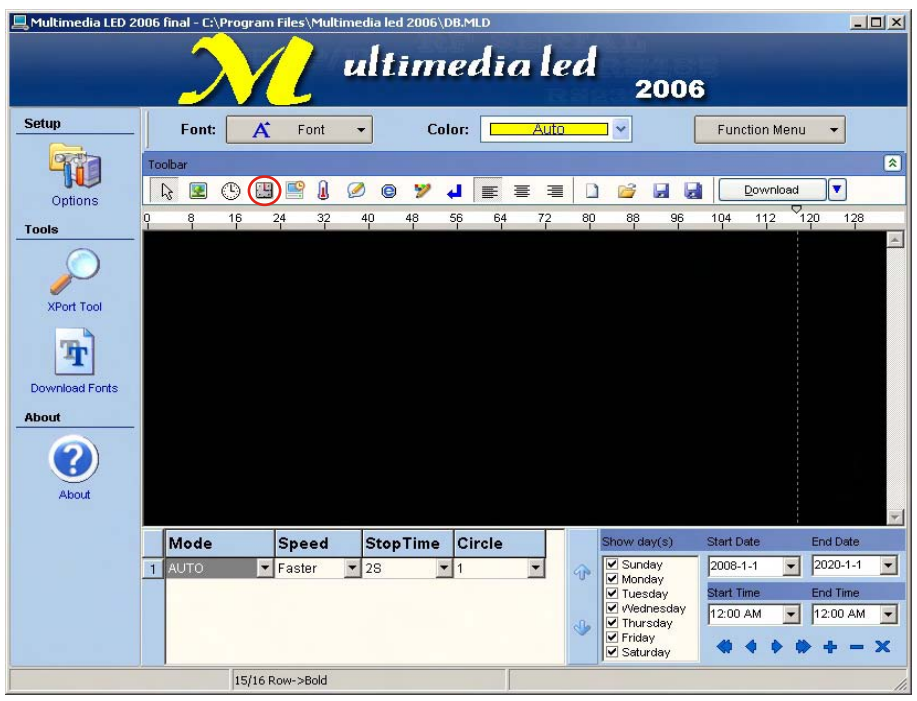


Step5 Click “Download”.

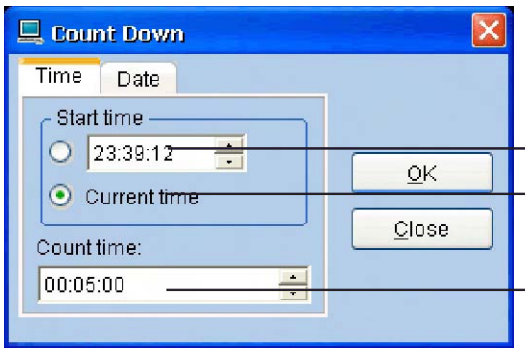


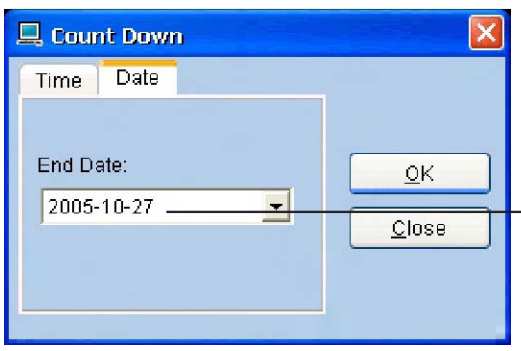
Insert countdown

Step1 Click  .

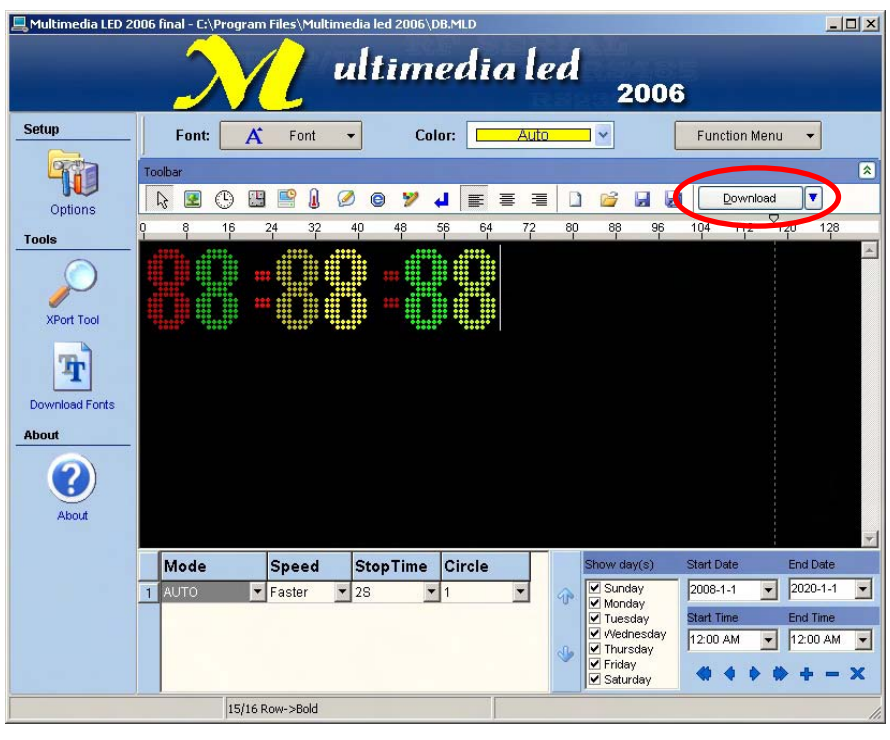


Step2 Select countdown time or date format , then click “OK”.



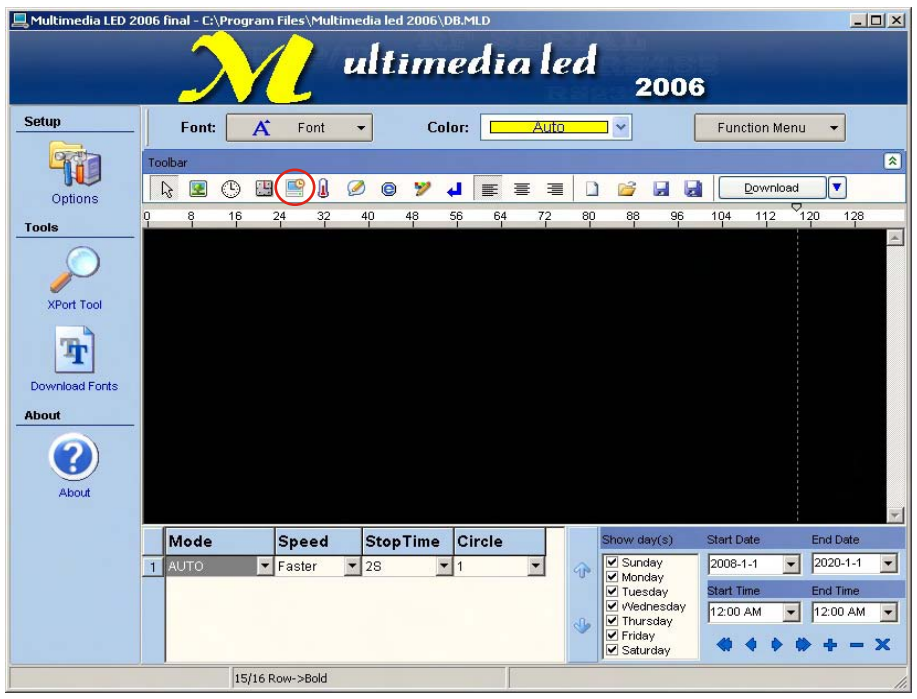


Step3 Click “Download”.

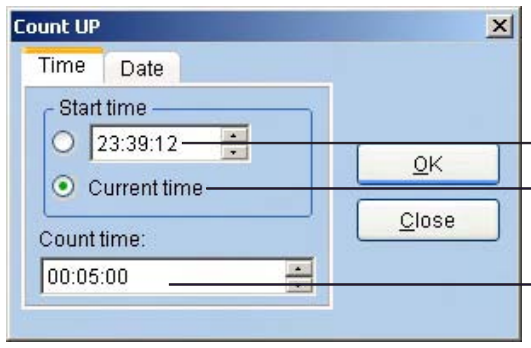


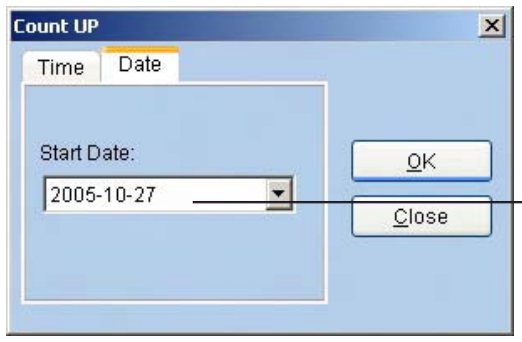
Insert countup

Step1 Click  .

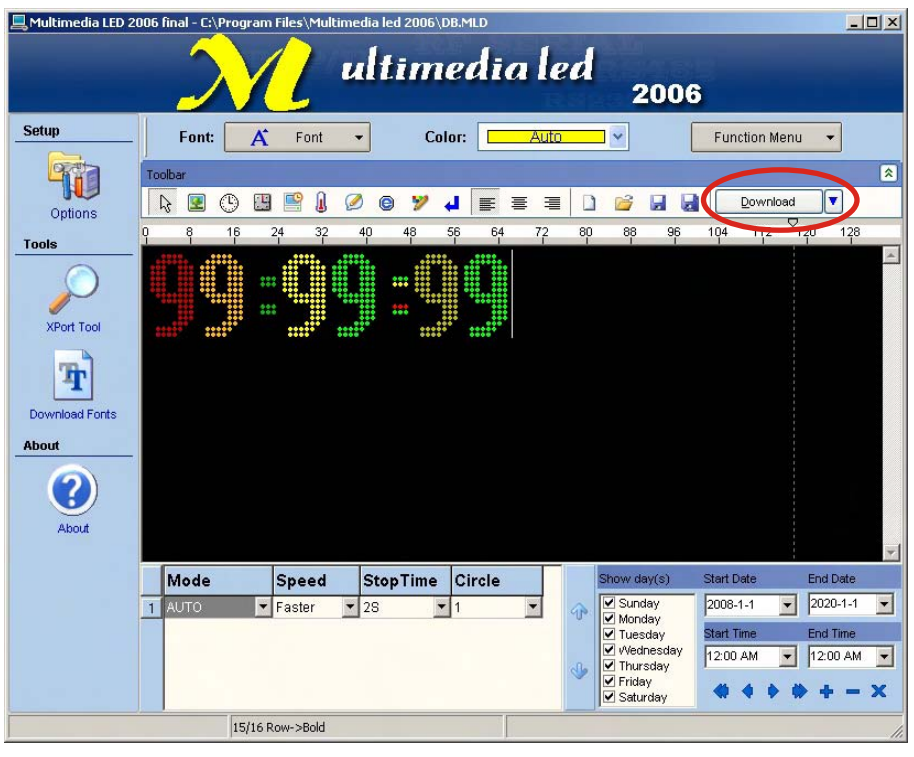


Step2 Select countup time or date format , then click “OK”.





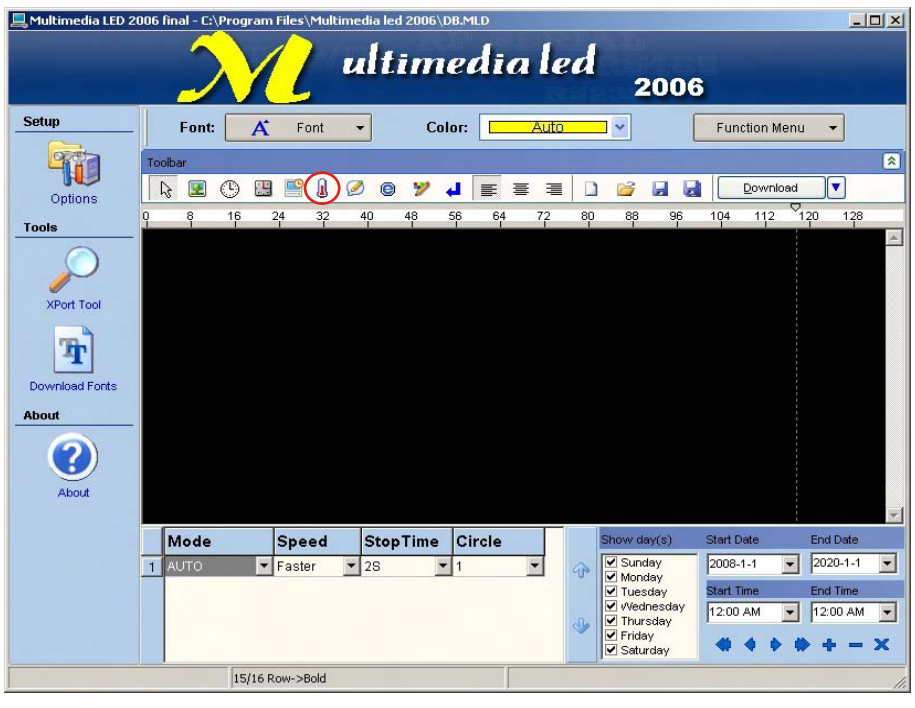
Step3 Click “Download”.



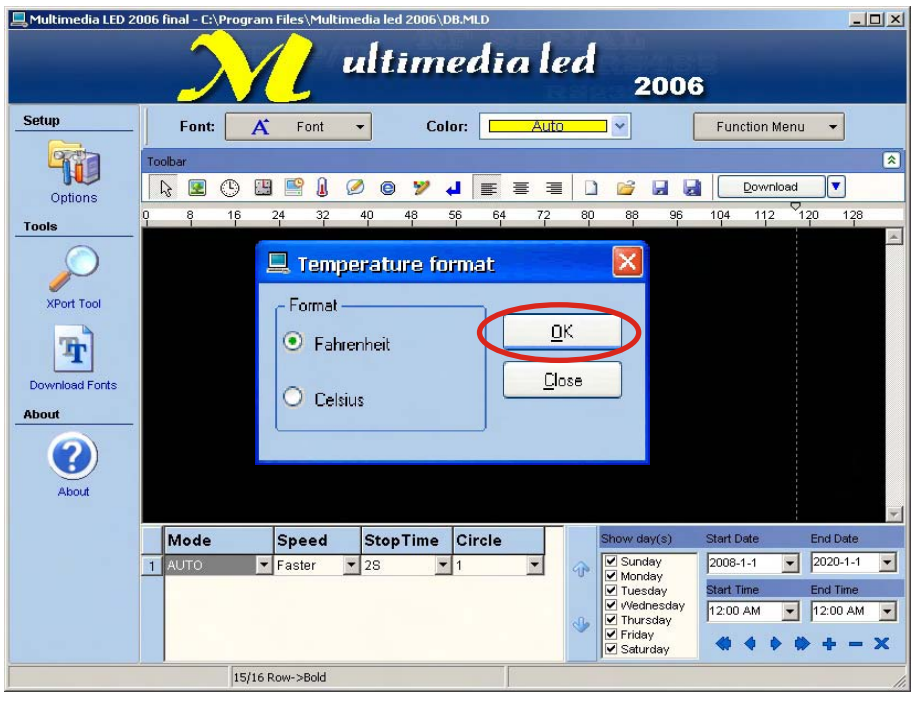
Insert temperature

Note: This function needs factory fitted hardware to work.

Step1 Click  .



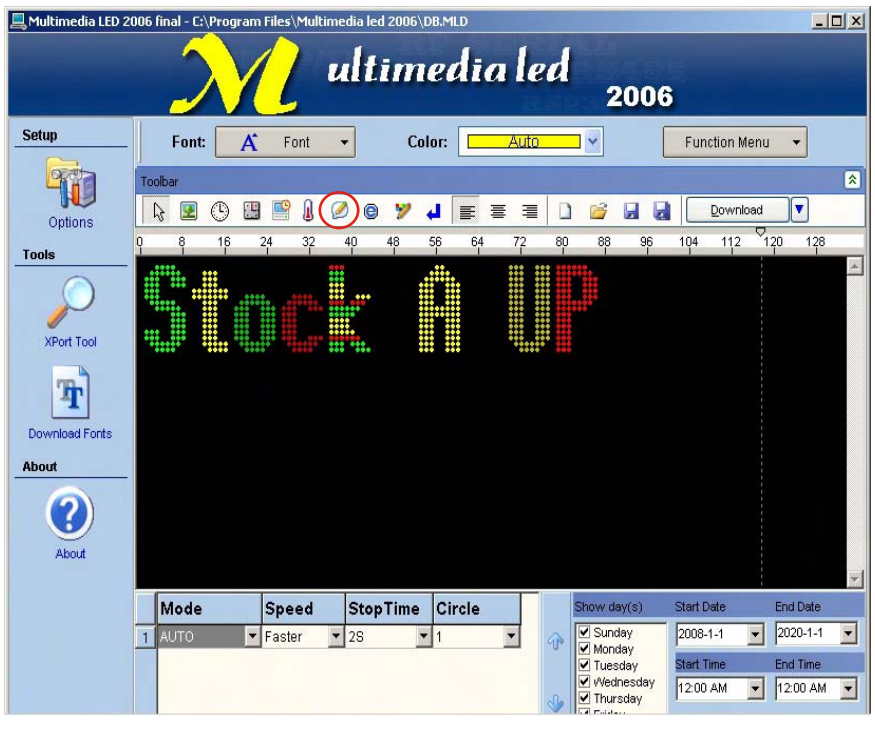
Step2 Select temperature format , then click “OK”.



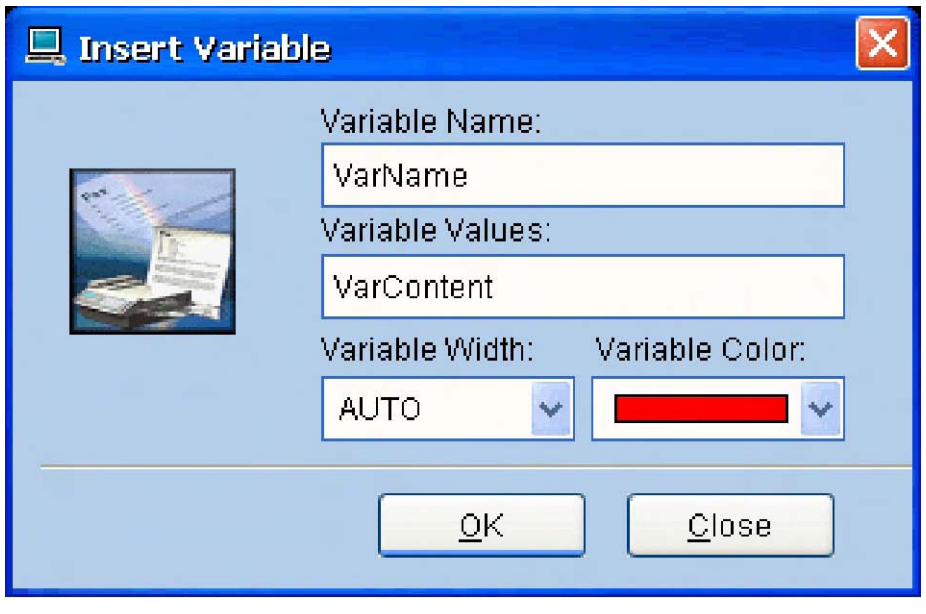
Step3 Click “Download”.

Insert variable

Step1 For example, type “Stock A UP”, click to insert variable at the end of message.

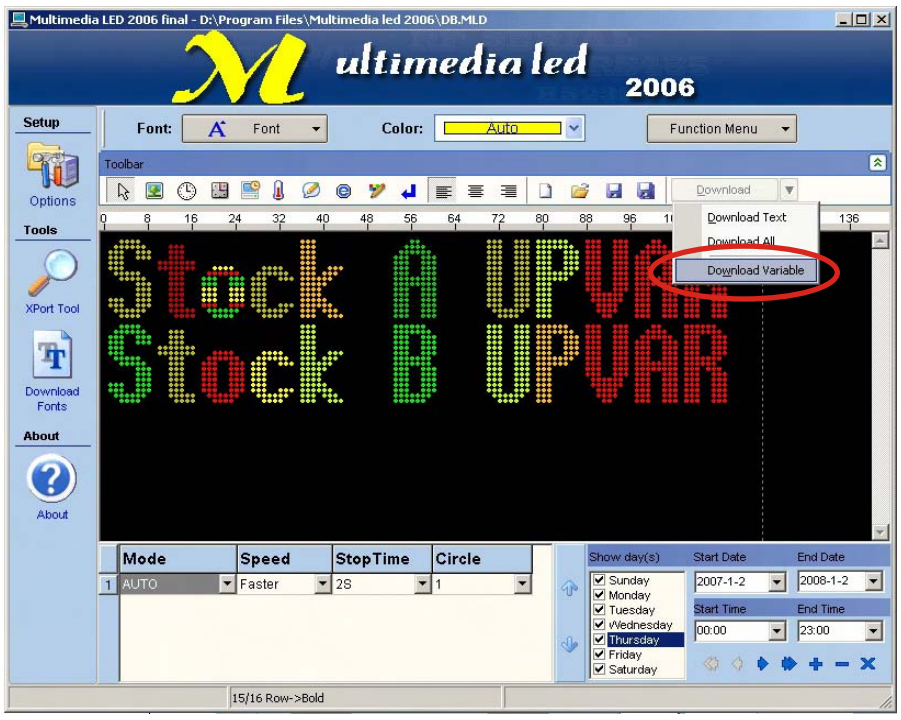


Step2 Fill in blank and click “OK”.

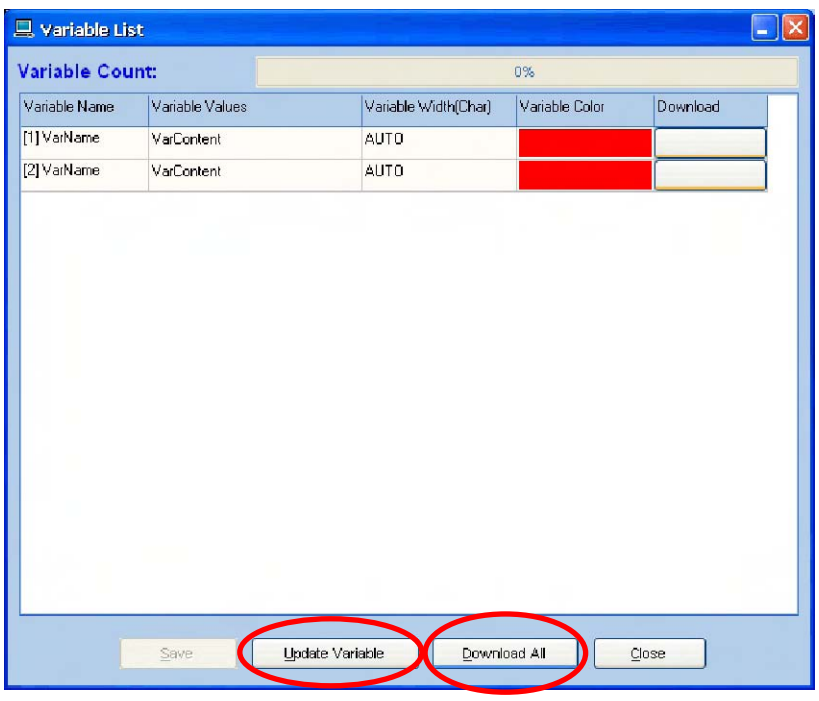


Step3 Type “Stock B UP” , repeat step 2 and 3 then download the message to the sign.

Step4 Click “Download Variable”.



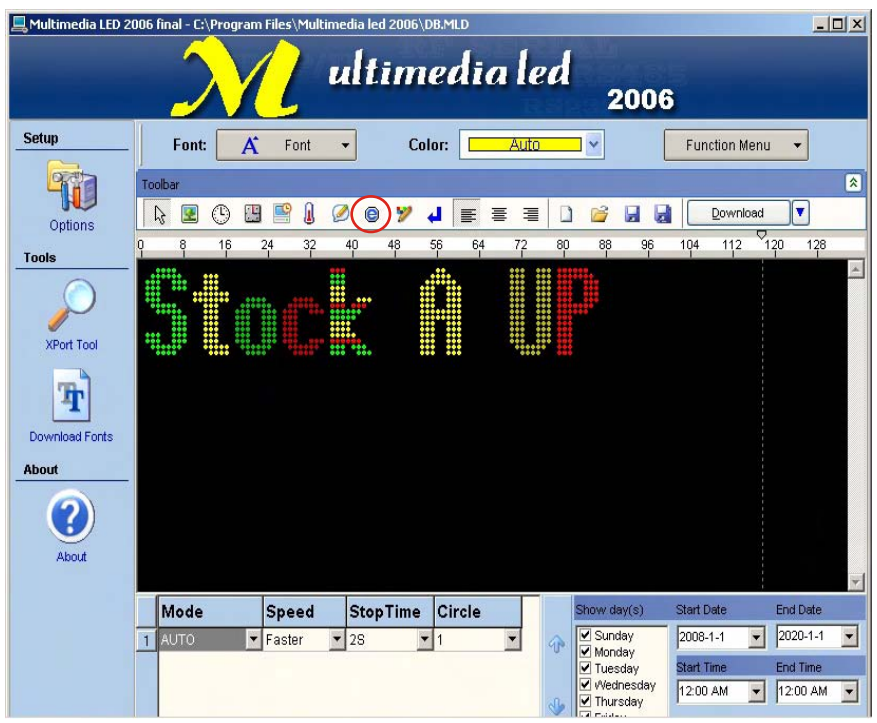
Step5 Enter some variable values, then click “Update Variable”, and then click “Download All”, finally click “OK”, and close “Variable List” window.



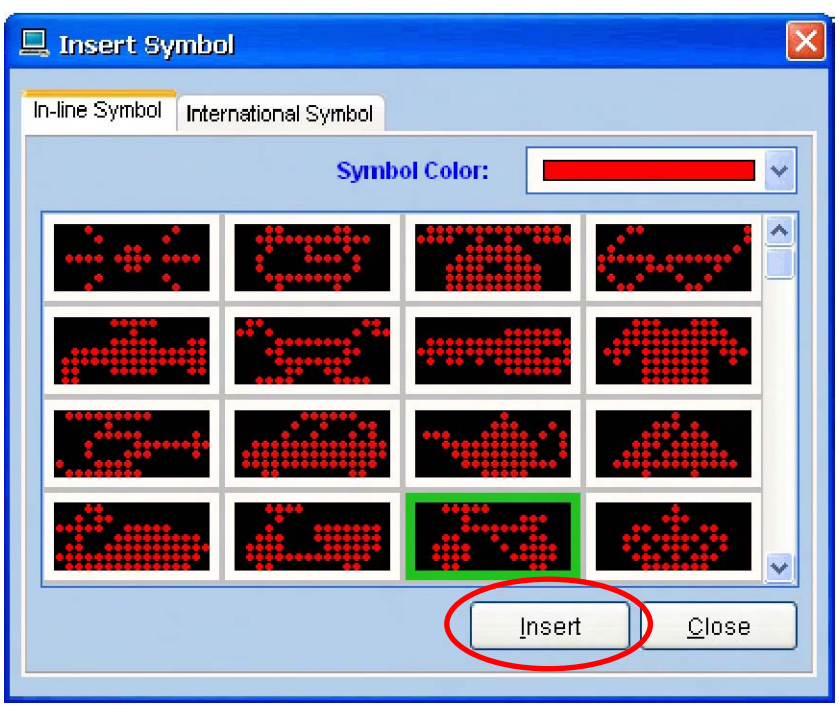
Step6 Click “Download”.

Insert symbol

Step1 Click .



Step2 Select one symbol, then click “Insert”.Close the “Insert Symbol” window.

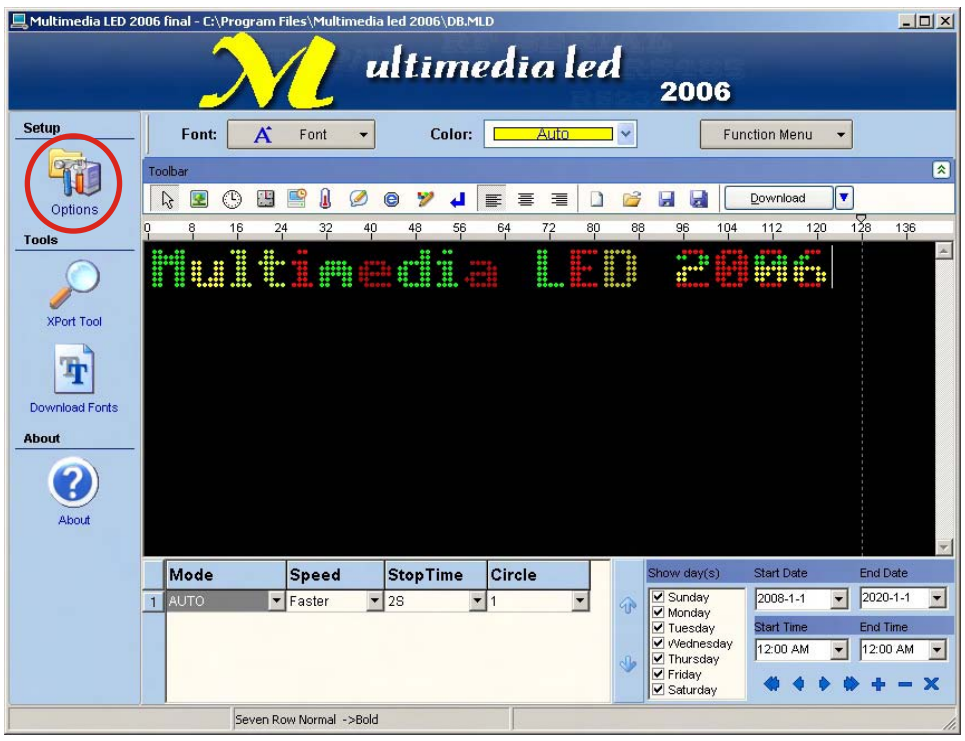


Step3 Click “Download”.

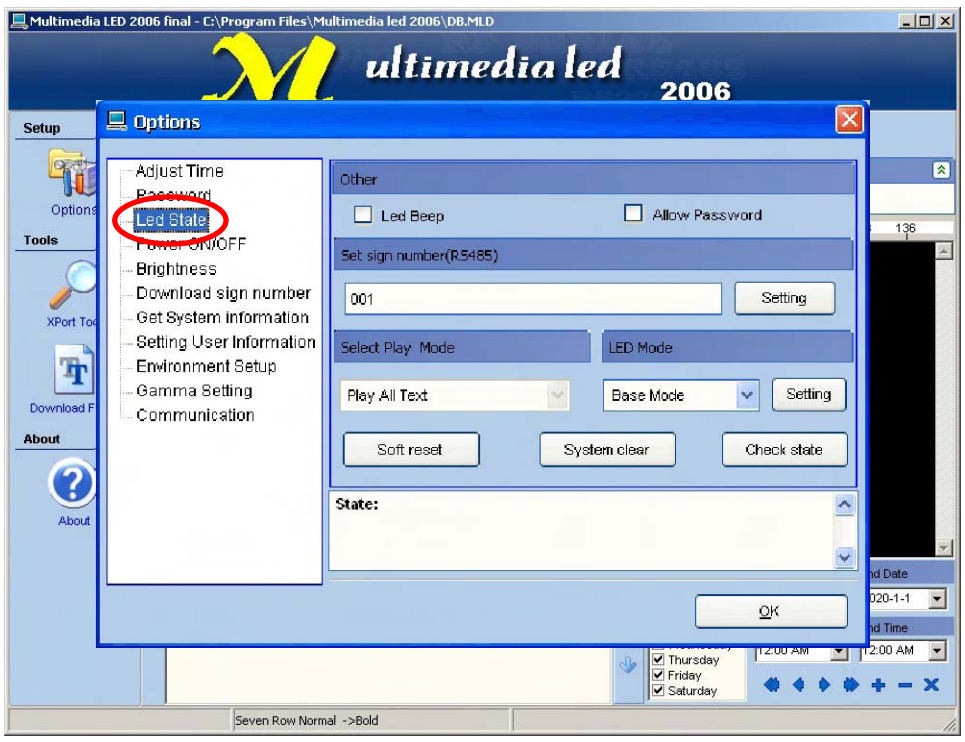
Pre-define message show day(s) and time

Note: To use this function, you must select expand mode under “Led state”.

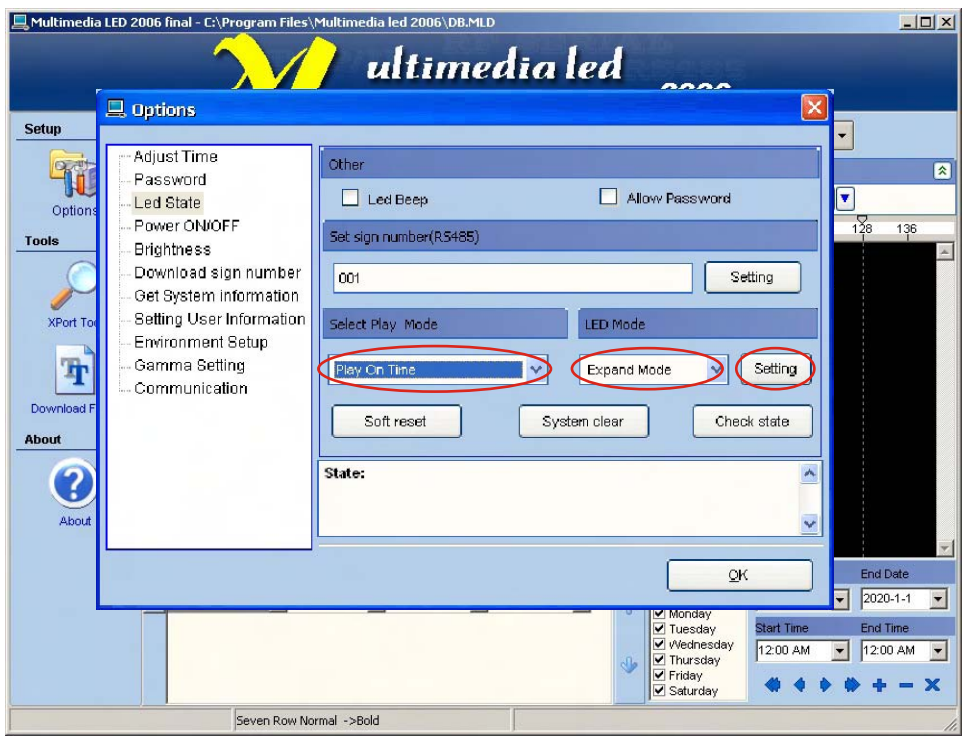
Step1 Click “Options”.



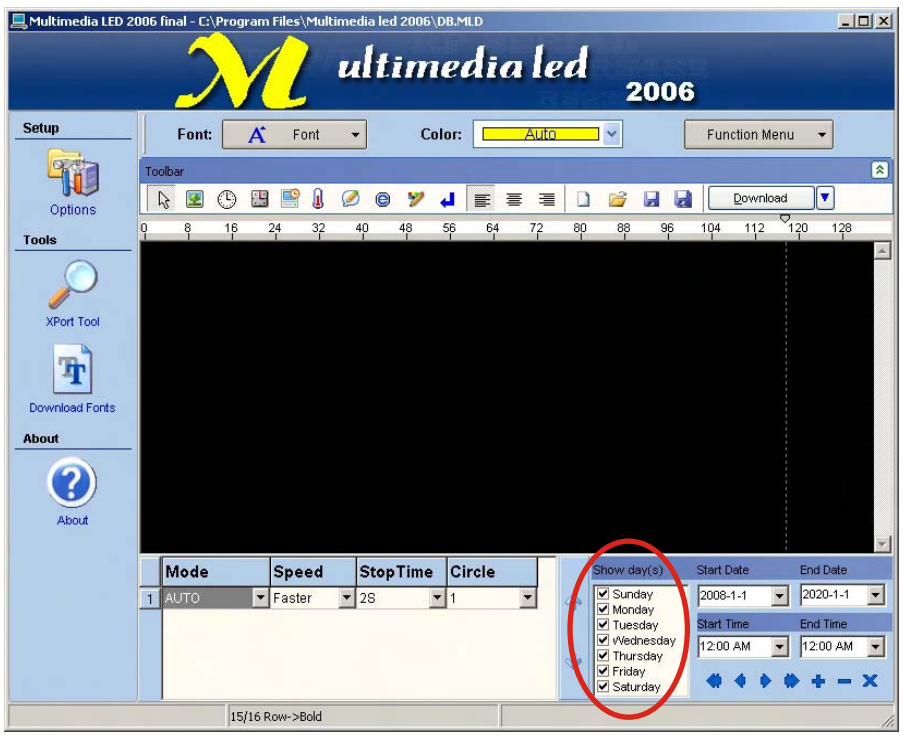
Step2 Click “Led State”.



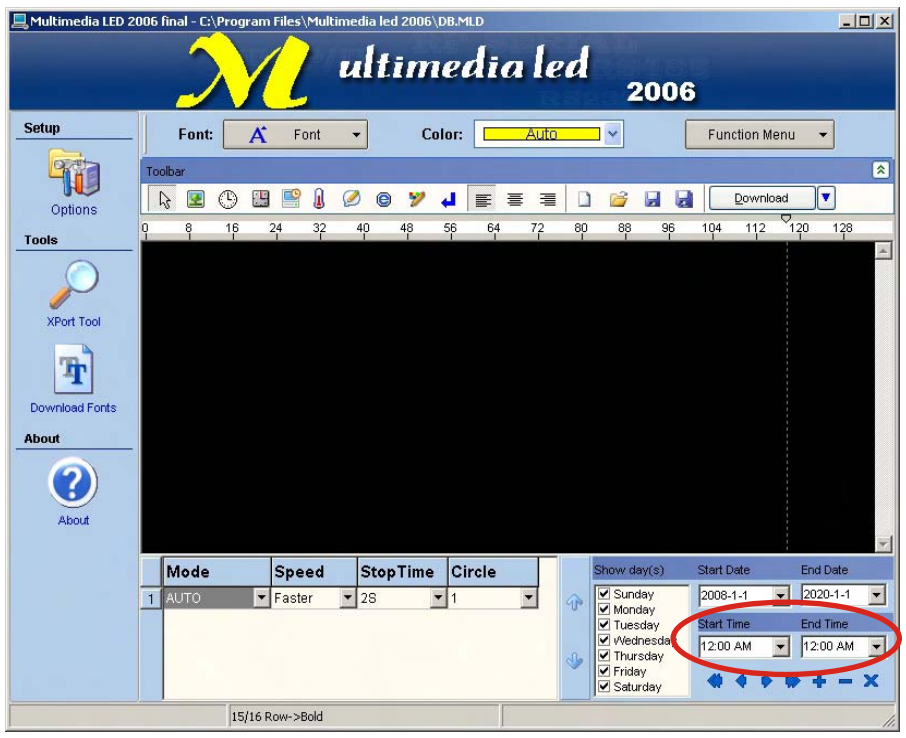
Step3 Select “Expand Mode”, under “LED Mode”,Select “Play On Time” under “Select Play Mode”, then click “Setting”. Click OK to close “Options” window.



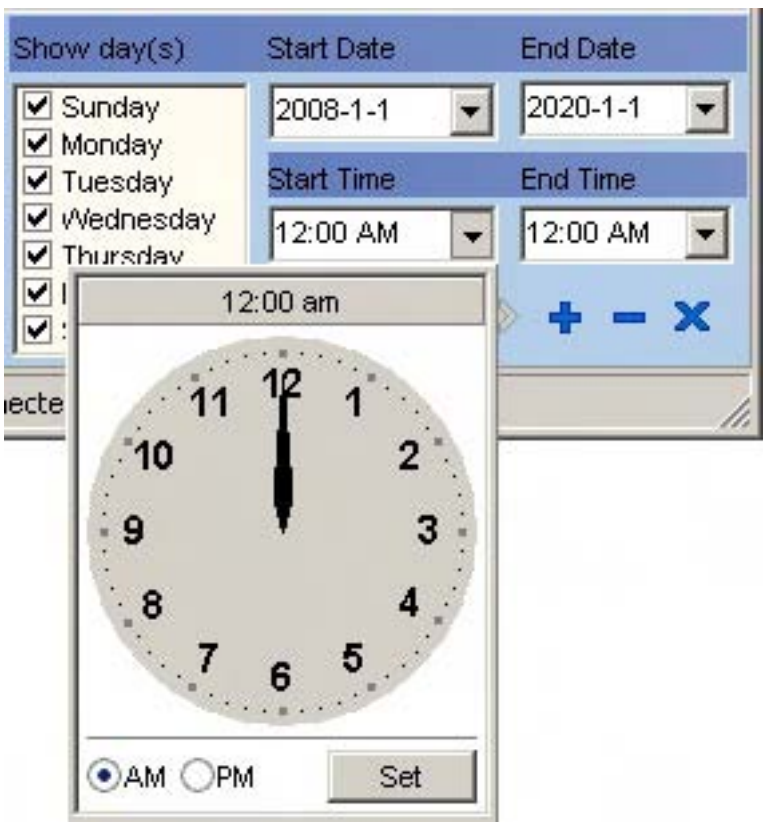
Step4 Select the days to show messages.



Step5 Click the down arrow under “Start Time”.

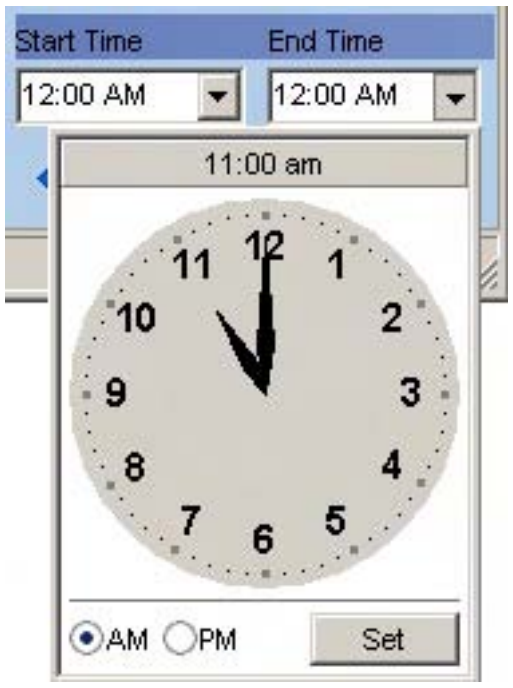


Step6 Select Start Time, then click “Set”.



Step7 Click the down arrow under “End Time”.

Step8 Select the End Time, and then click “Set”.

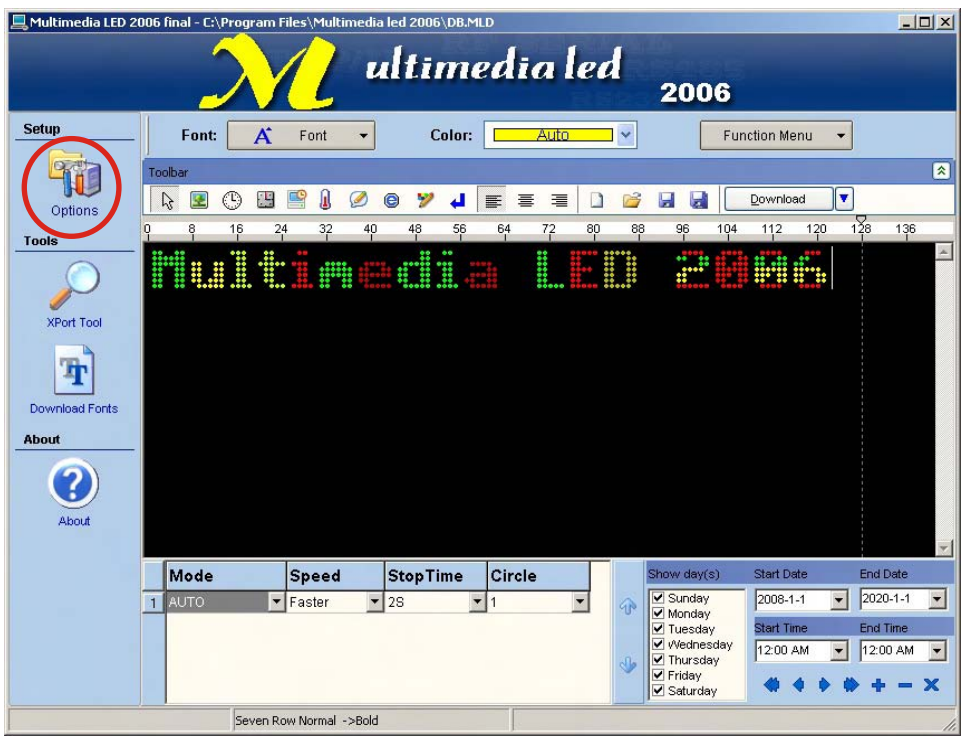


Step9 Click “Download”.

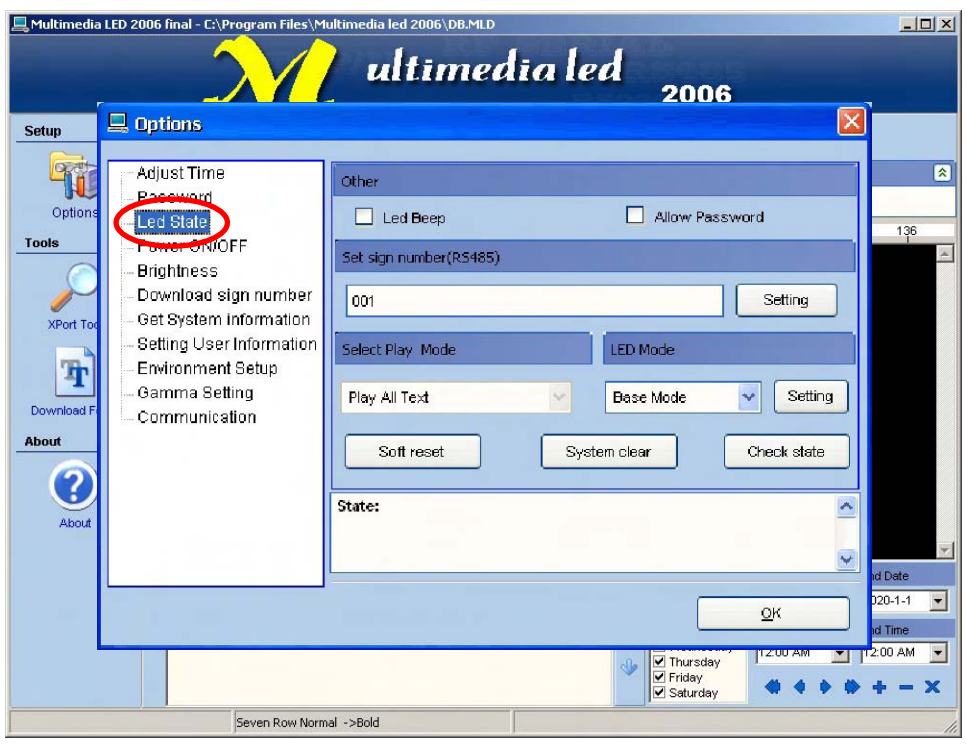
Pre-define power on/off

Note: To use this function, you must select expand mode under “Led state”.

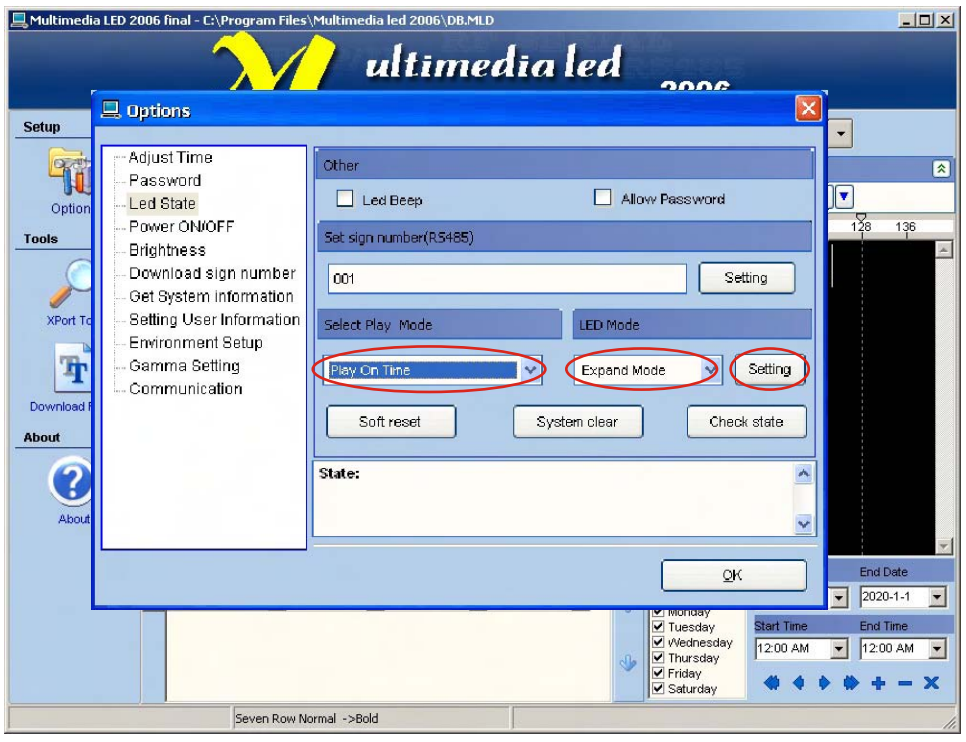
Step1 Click “Options”.



Step2 Click “Led State”.

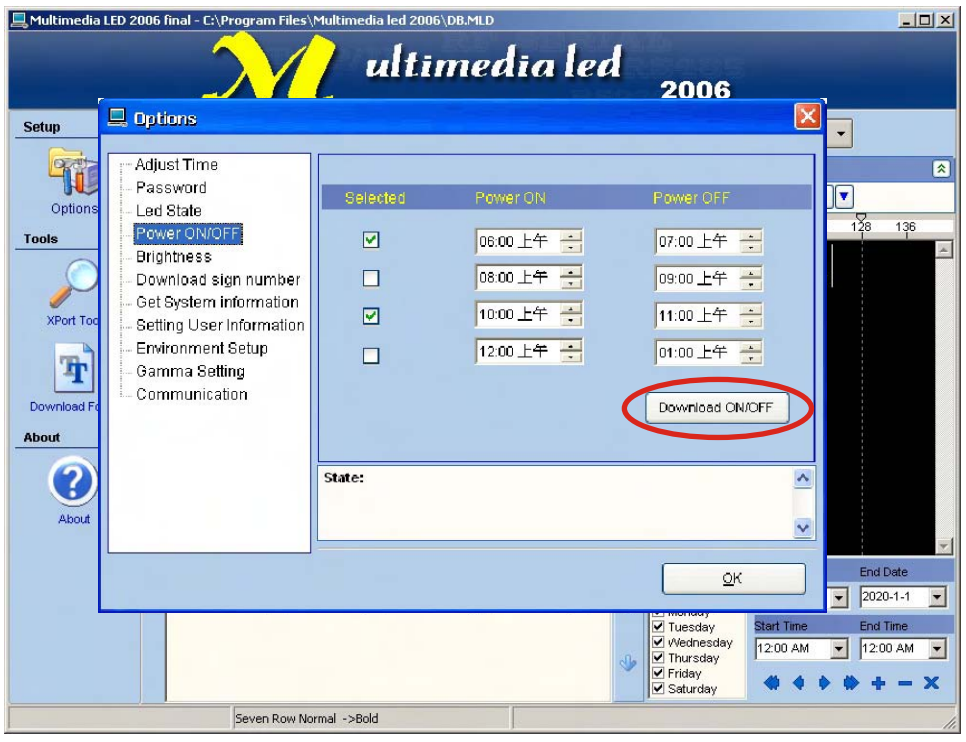


Step3 Select “Expand Mode”, under “LED Mode”, Select “Play On Time” under “Select Play Mode”, then click “Setting”.



Step4 Click “Power ON/OFF”.

Step5 Select power on/off time, then click "Download ON/OFF", finally click "OK".



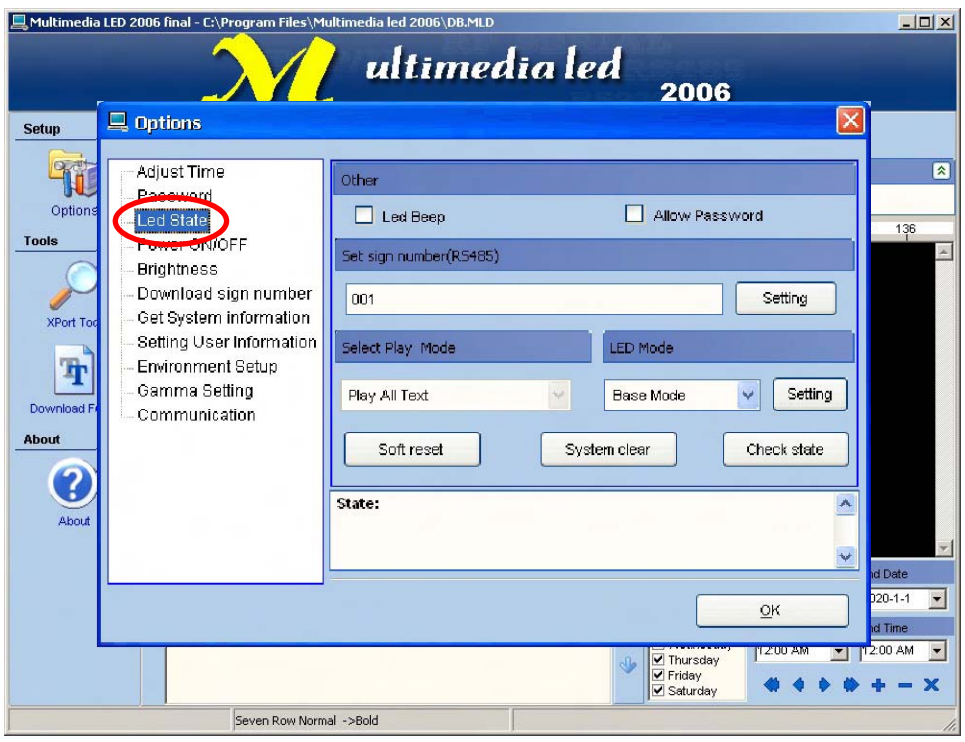
Step6 Click "Download".

Adjust brightness

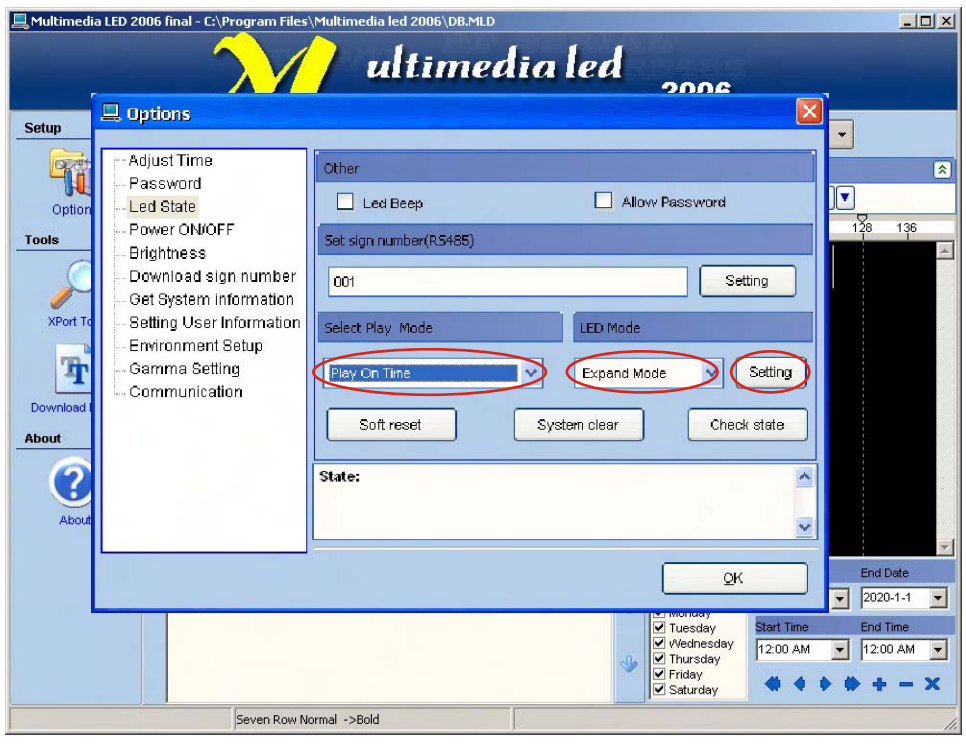
Note: To use this function, you must select expand mode under "Led state".
This function also needs factory fitted hardware to work.

Step1 Click "Options".

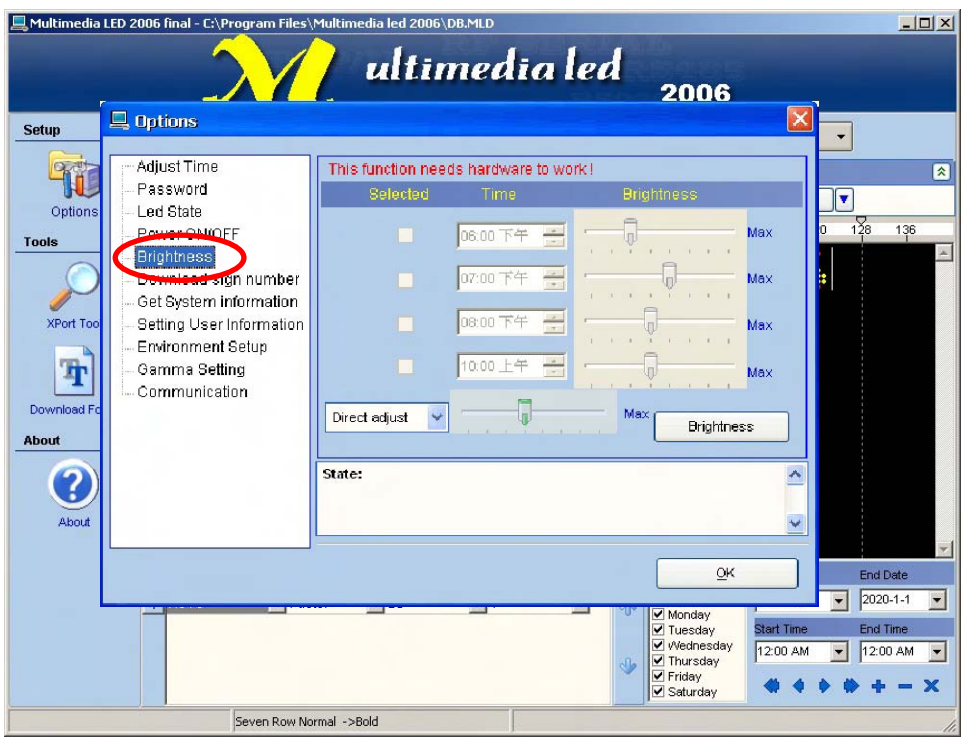
Step2 Click "Led State".



Step3 Select "Expand Mode", under "LED Mode", Select "Play On Time" under "Select Play Mode", then click "Setting".

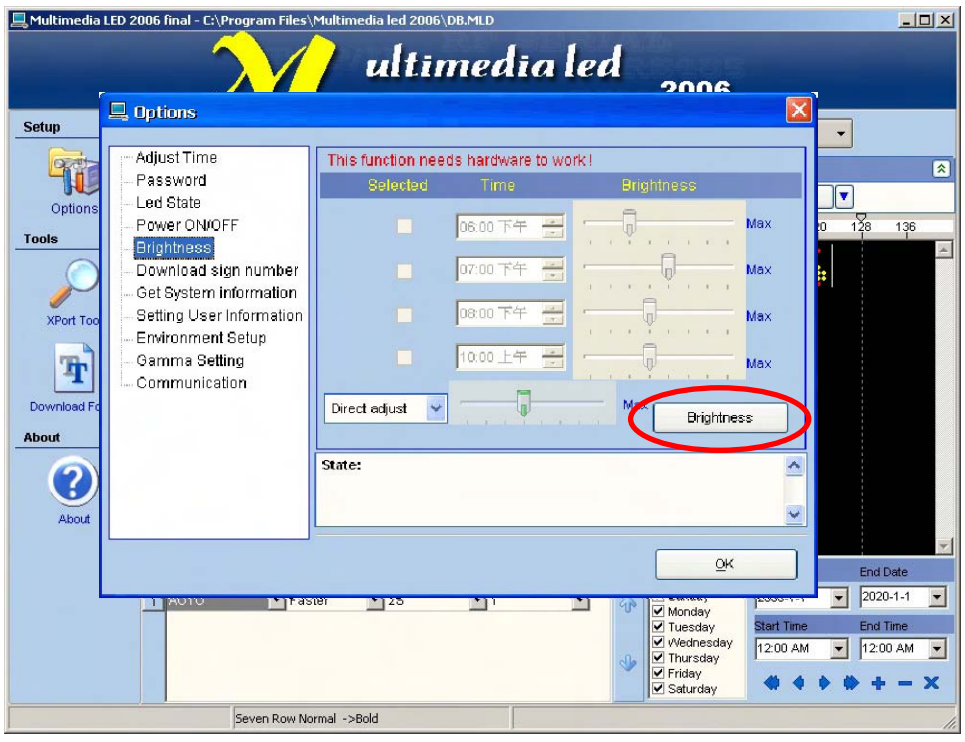


Step4 Click "Brightness".



Step5 After adjust brightness, and then click “Brightness” finally click “OK”.

Step6 Click “Download”.

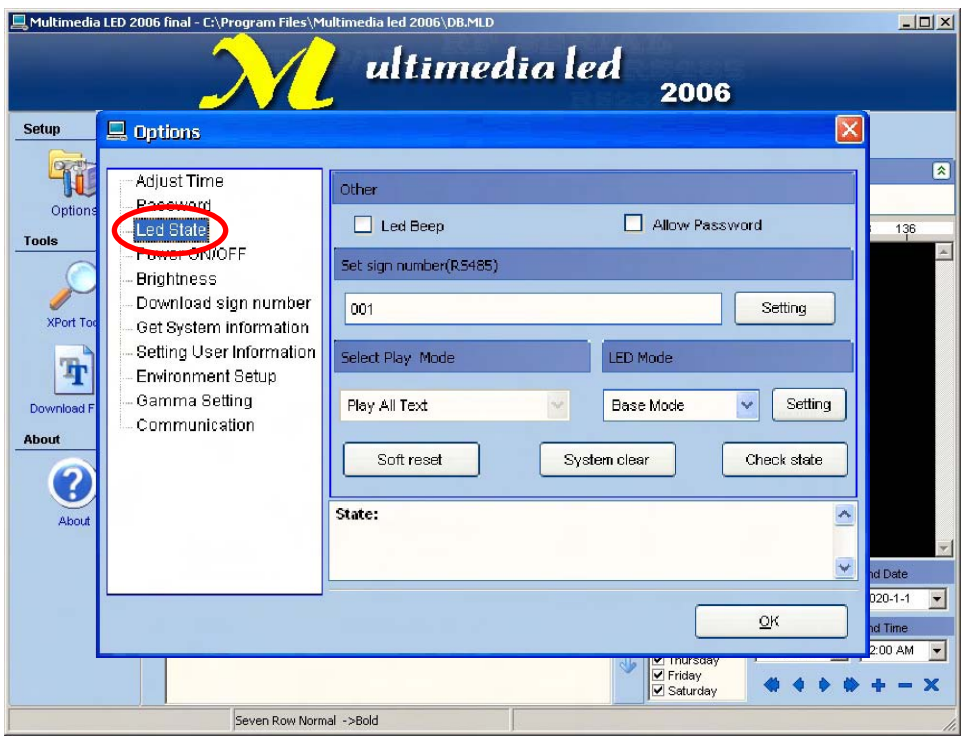


Set password

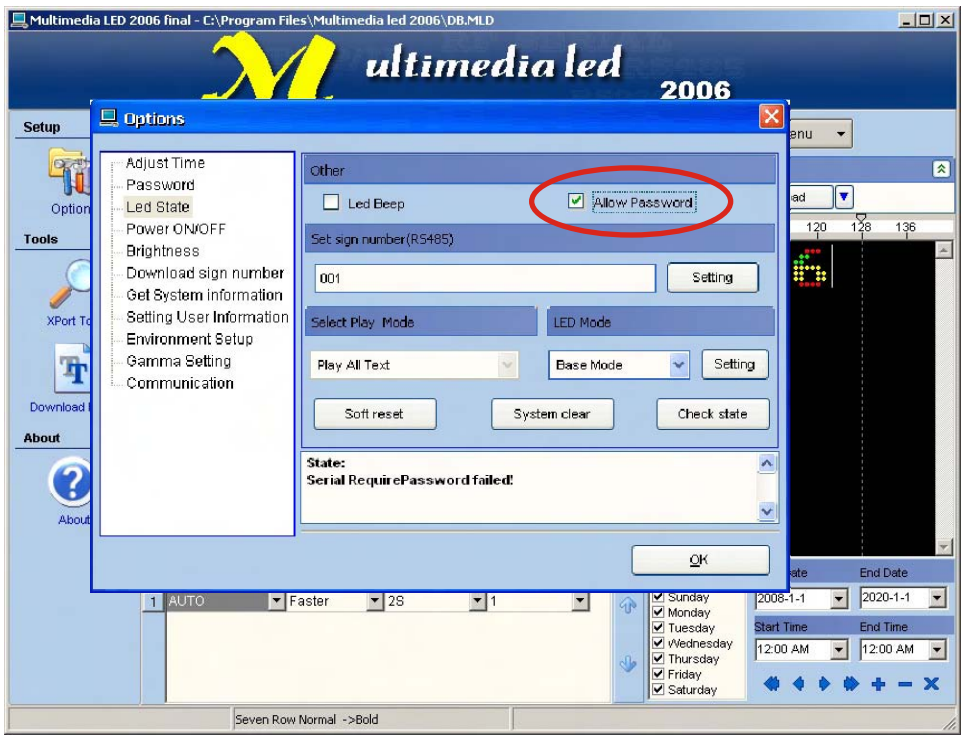
This sets the password used by the remote control.

Step1 Click “Options”.

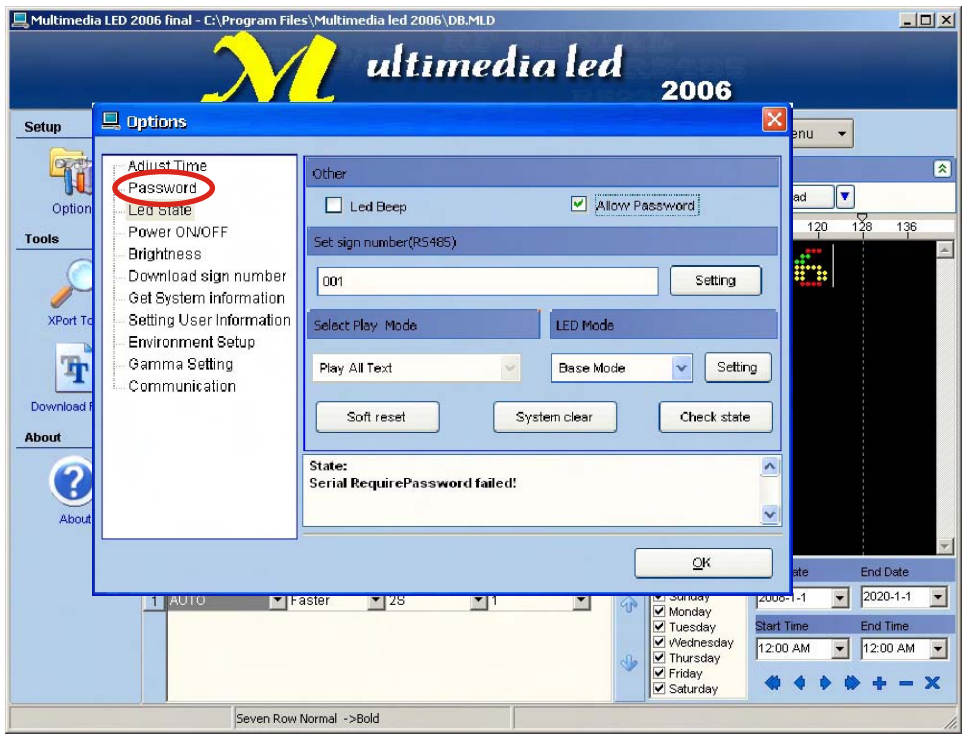
Step2 Click “Led State”.



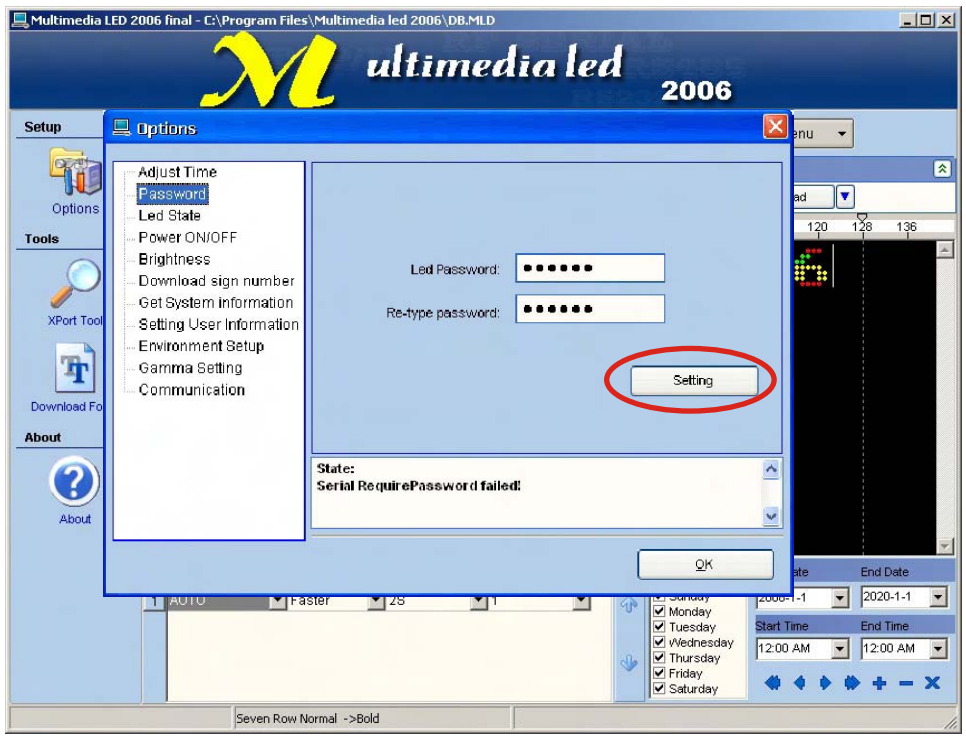
Step3 Select “Allow Password”.



Step4 Click “Password”.



Step5 Enter the password, then click “Setting”, finally click “OK”.Click “OK”.



Send messages to a sign using RS232 communications

Step1 Connect the sign to the pc , make the connections using the supplied RS232 cable as shown in the picture below:

Please note: you can not remove the beige adaptor on the pc end of serial cable and plug it into modem socket on your pc–this will not work. If you do not have an Rs232 port(many laptops do not have them any more) then contact us we can supply you with a USB adaptor.

Step2 Select and setup communication as shown in the beginning text messaging section of this manual.

Step3 Click “Download” to send the messages to the signs.

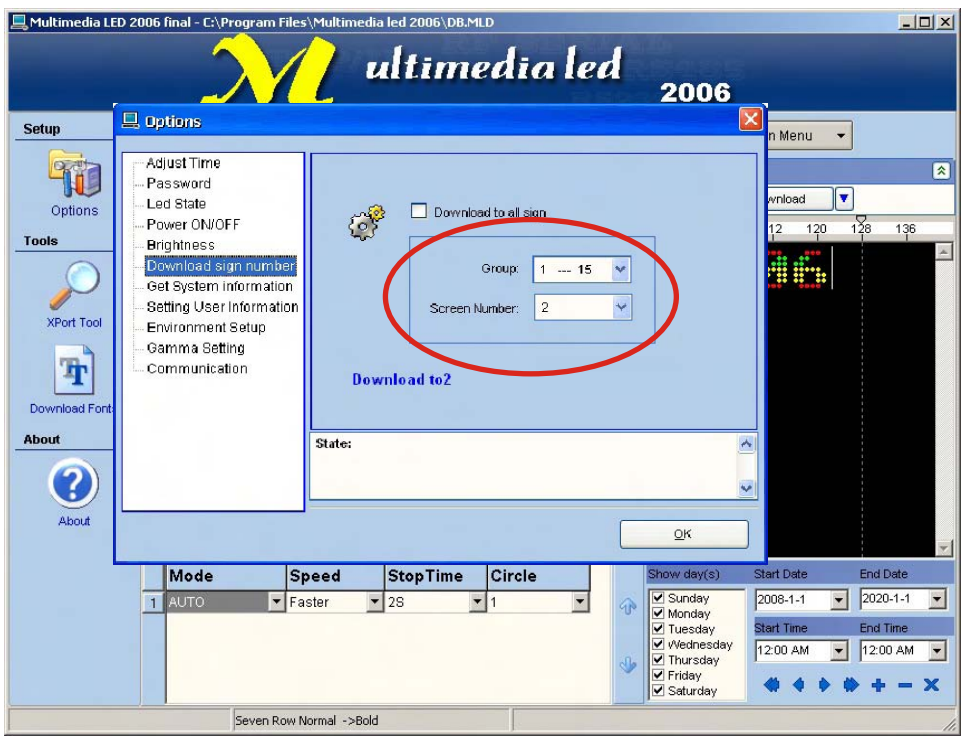
Sending messages to signs using RS485 communications

Step1 Connect all the signs-remember to use the RS485 adaptor(supplied) in line with the PC's RS232 port and the signs RS485 cable:

For example, two signs connected, for more than two, just daisy chain on in the same way.
Please note: The signs should have been set up before this, please see the section on setting the LED equipment number.

Step2 Select and setup communications as shown in the beginning text messaging section of this manual.

Step3 In multimedia LED, click on options, and then select "Download Sign Number".



You can download to all signs, a group of signs or an individual sign.

To download to all signs
If you want to send the same messages to all signs then tick"Download to All LED".

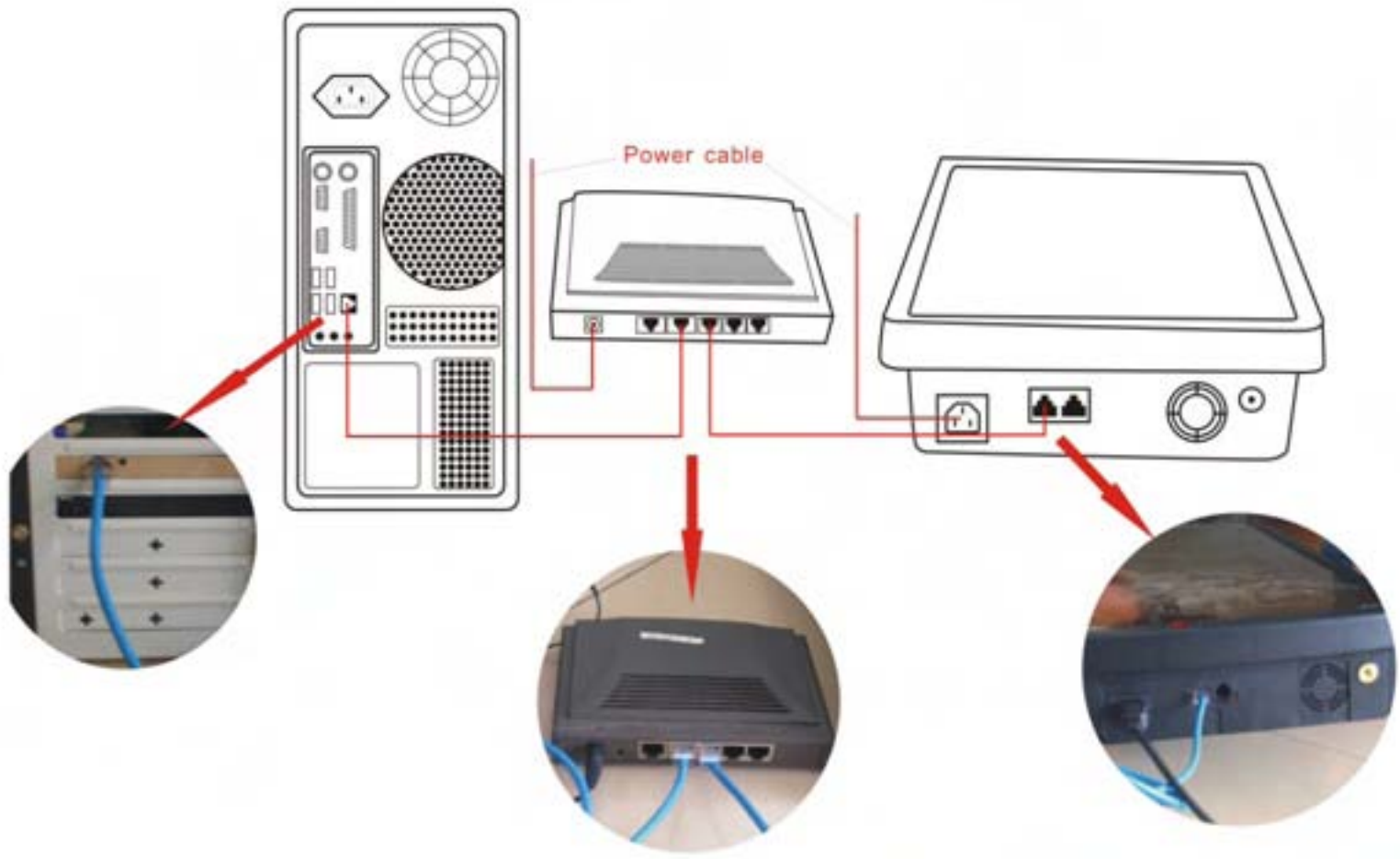
To download to a group of signs
If you want to send the same messages to signs 16 to 31 then select 16-31 in "group" and leave the "screen number" at 16-31

To download to an individual sign
Prior to setting the "screen number", you must set the "Group number". For example, if you want to send messages to sign number 20, as number 20 is included in the Group 16-31, you should set "Group 16-31" first.

Step4 Click "Download" to send the messages to the selected signs.

Send messages to a sign using TCP/IP communications

For example: if we have one PC, one Router, and one led sign fitted with an X-port (TCP/IP or Ethernet interface) then the connections are as follows:



Connection method:

1、Insert one end of an Ethernet cable into the PC's Ethernet socket, the other in to the Routers Ethernet port. (Any unused port - 1, 2, 3 etc)

2、Insert another Ethernet cable into the LED sign, the other end into the Router Ethernet port. (any unused port - 1, 2, 3 etc)

3、Turn on the Router; wait for it to boot up, and then turn on the PC and LED sign power. The LED sign gets its DHCP setting from the Router, so it must be connected and the Router switched on before you turn on the sign, or it will not get its settings.

4、Check the Router's indicator light, generally if the indicator light is flashing, the connection is correct (different Routers have different status LEDs, so you need to look at your routers manual)

Please Note: do not insert the Ethernet cables into the Routers WAN port, this cannot be used, you must use one of the LAN ports.

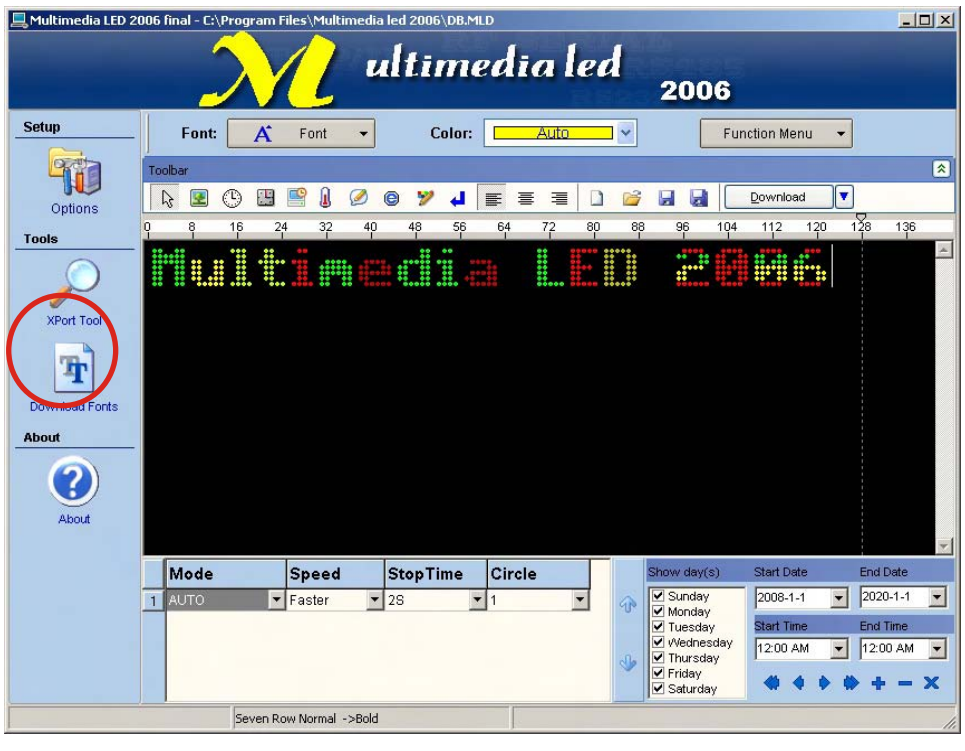
Remote Access over the Internet

You can setup remote access over the Internet using an ADSL router, to do this you need to have a static IP address from your ISP (Internet Service Provider), you need to setup port forwarding on your ADSL router port 10001 to point to the static IP address you have given to your sign. You can update your sign from any worldwide location using this method, you may need to adjust communication timeouts to get consistent results.

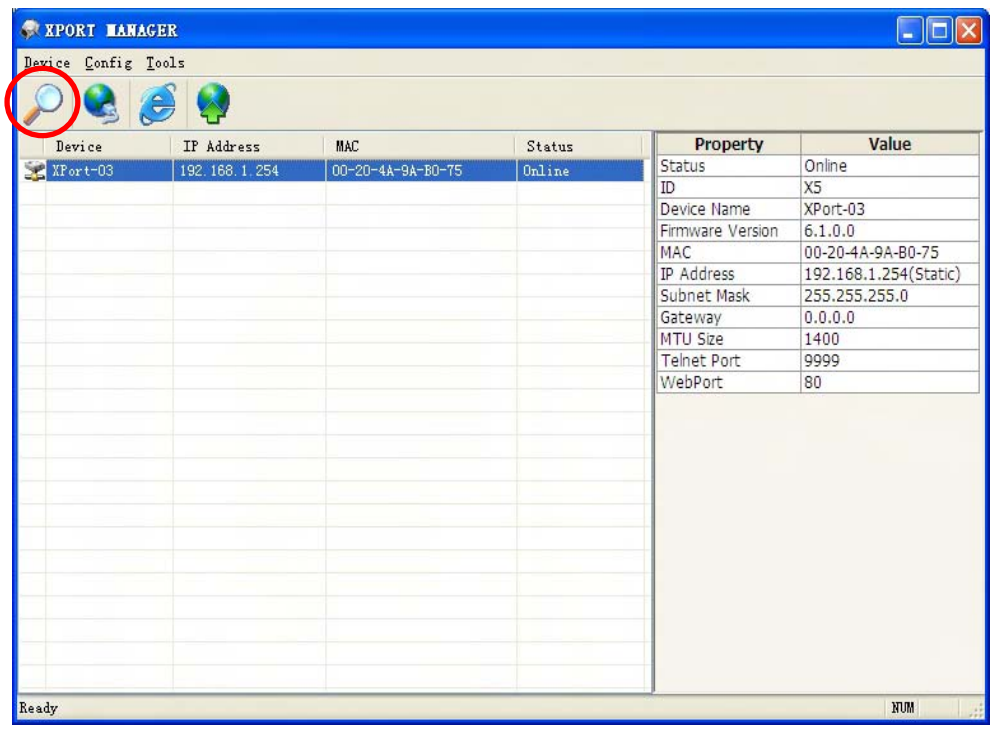
Note: Please refer to your ADSL routers manual for further information on how to do this.

Setting up the software

Step1 Click ″XportTool″.



Step2 Click “Search”.



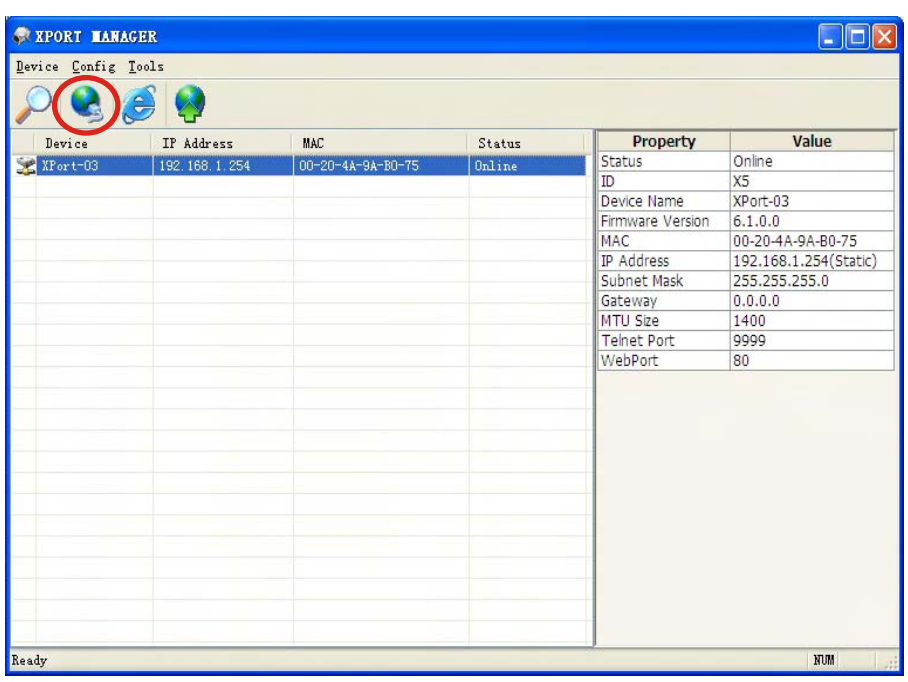
After you clicked 'Search', if you do not find any LED signs, it could be because of a few reasons:

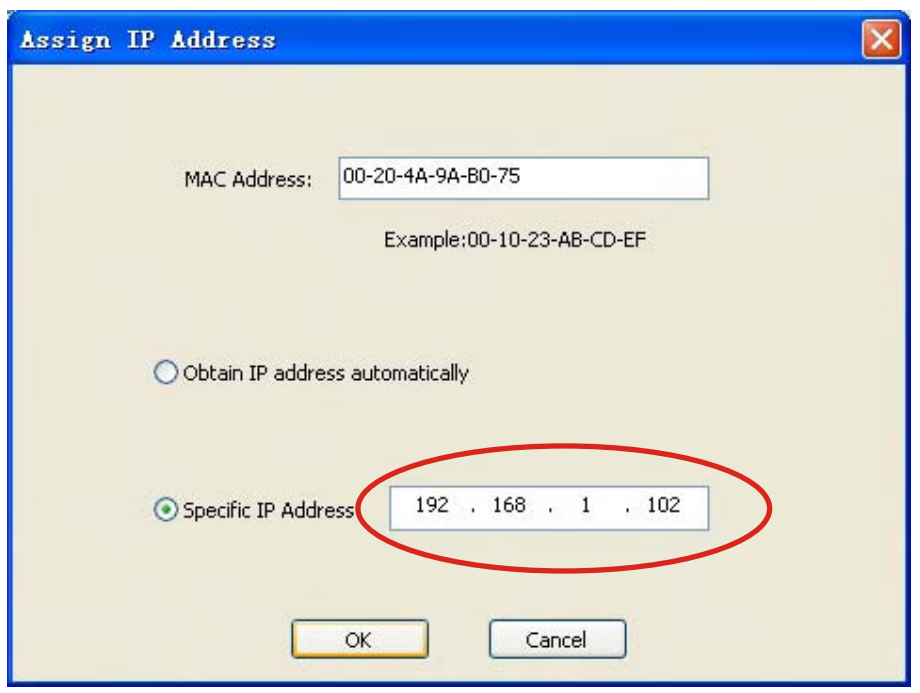
1.The connections between the LED sign, computer and Router are incorrect.

2.In its factory shipped state, the led sign does not have an assigned IP (it is DHCP), so you must setup the Router's DHCP function - refer to your Routers operation manual.

3. You have a firewall or other security hardware/software blocking the data.

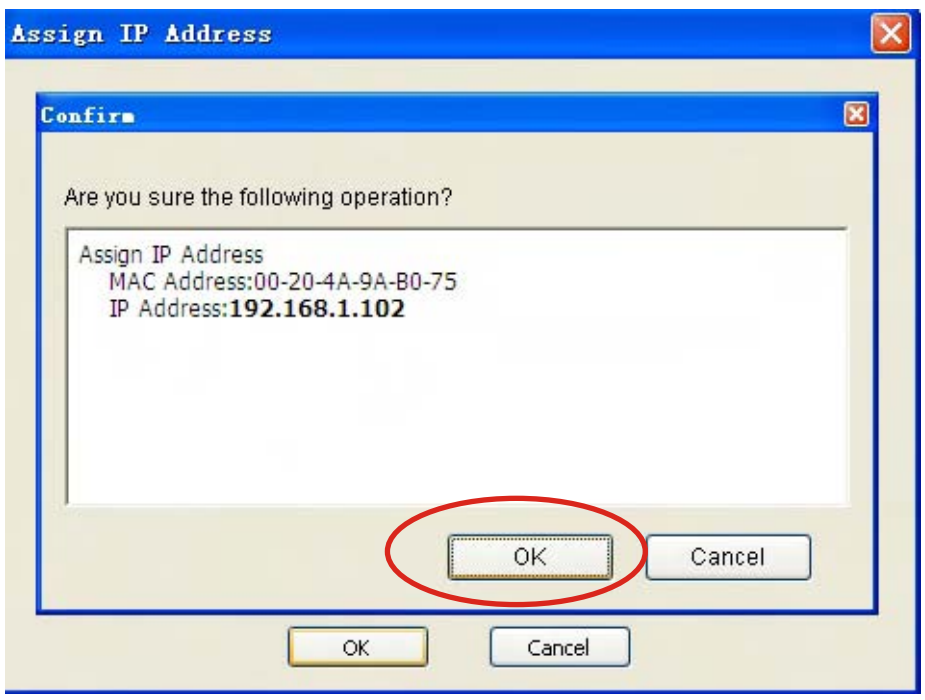
Step3 Click “ ” Modify IP

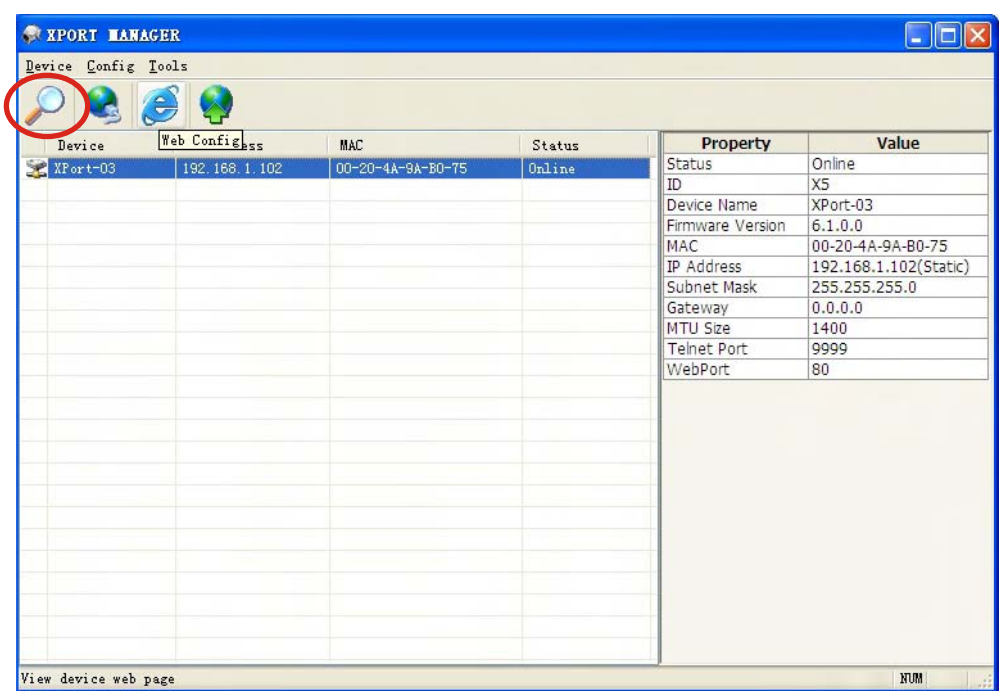




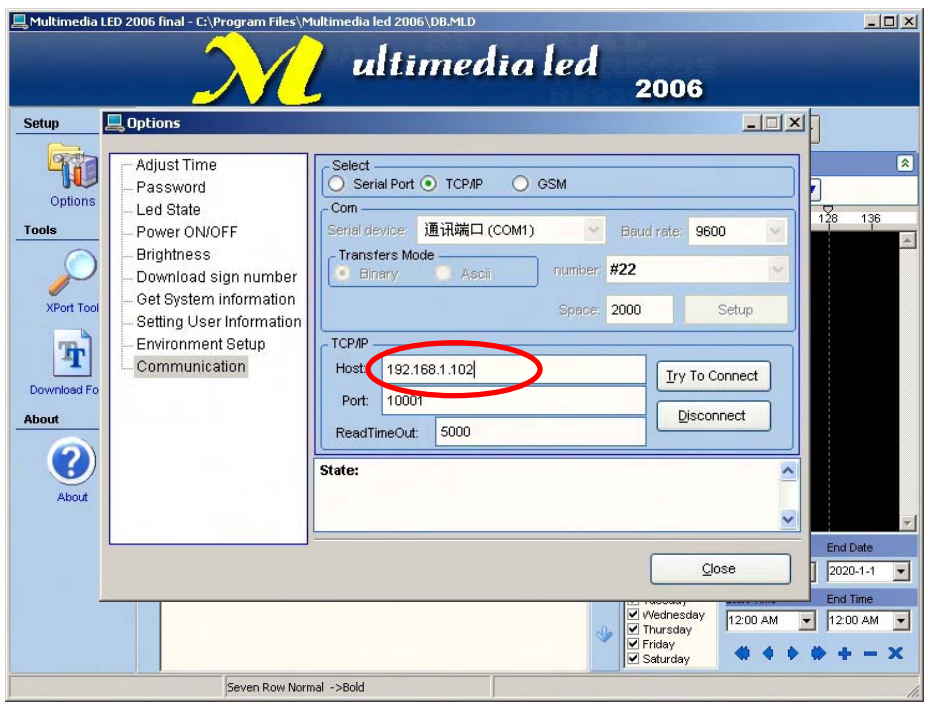
Click “OK”

Click “ ” again





Step4 Click “Option”, select “Communication”,select “TCP/IP” communication.



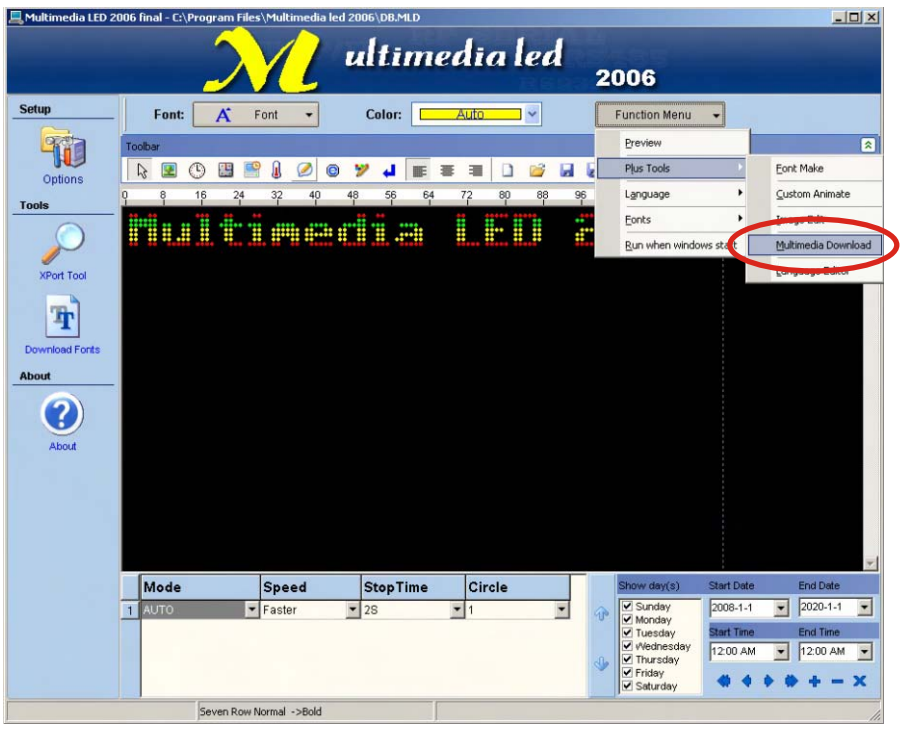
Enter the IP in “Host” ,either the one you wrote down earlier,or the new one you entered, then click “OK” .

Step5 Check the messages, display mode, show days, and so on, then click “Download” .

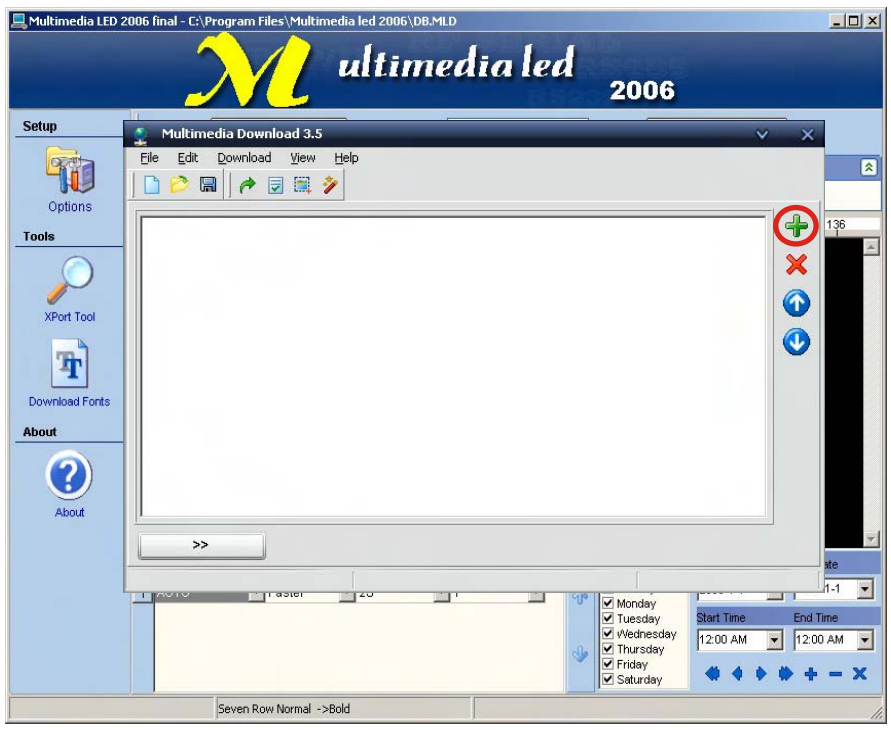
Send messages to several signs using Multimedia Download

Step1 Connect all the signs, either by RS232, RS485, Ethernet or a mix of all these. .

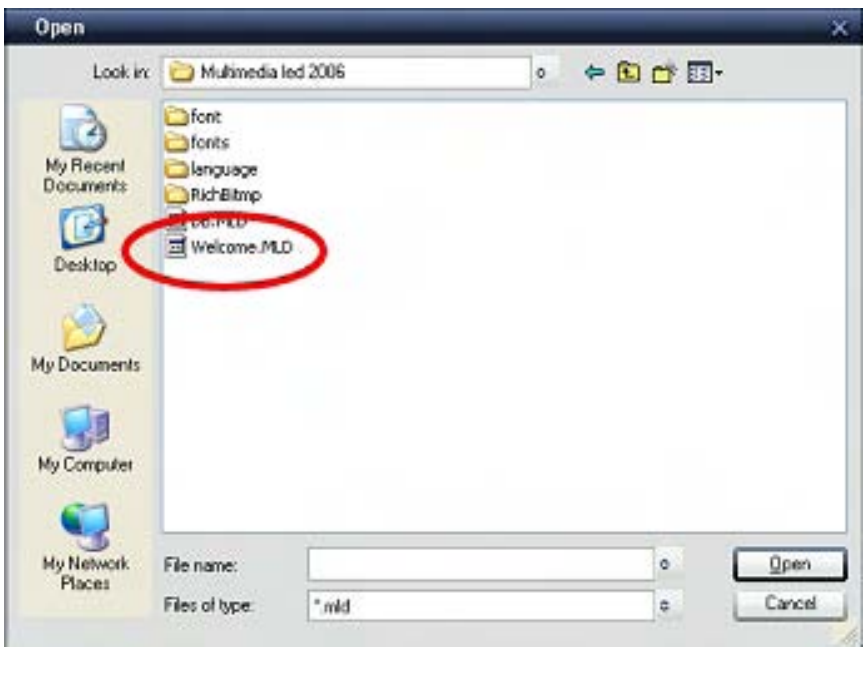
Step2 Click “Multimedia Download”.



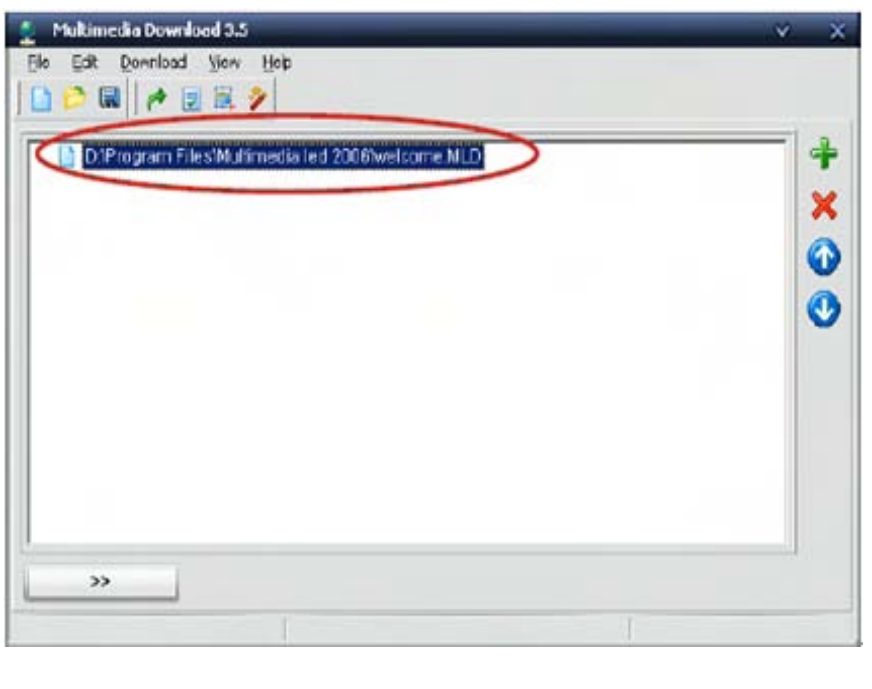
Step3 Click  if you want to send more than one message to sign, you should chick 



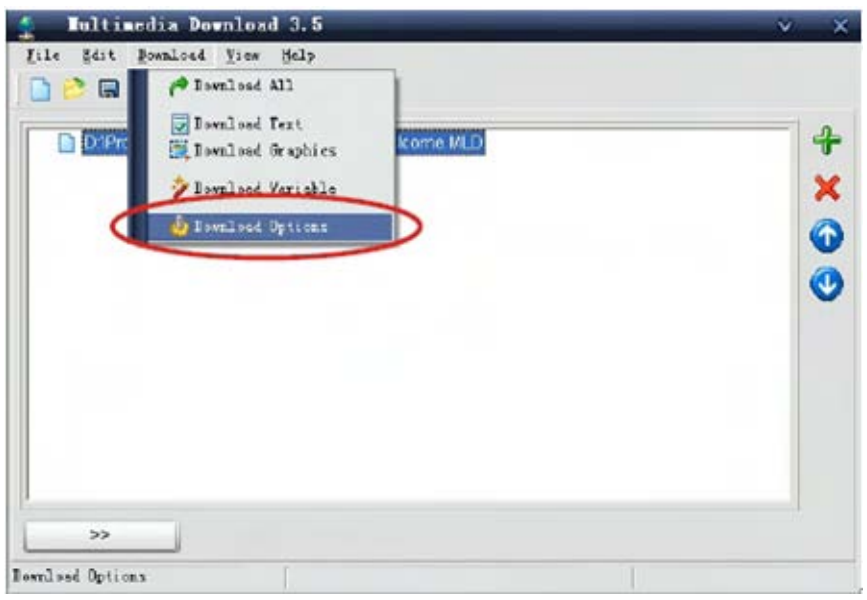
Step4 Select you will send messages' *.mld' file.
(Note: before this step, you must create the message on in Multimedia LED and save it as *.mld file onto the pc.). Double click the 'welcome.mld' file.



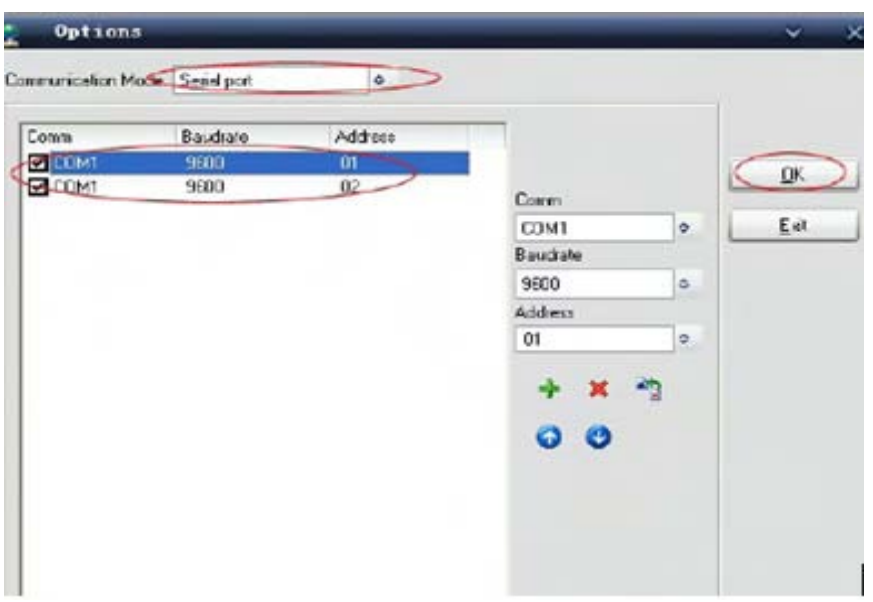
Step5 Click “D:\Program Files\Multimedia led2006\welcome. mld”



Step6 Click “Download Options” under “Download”.



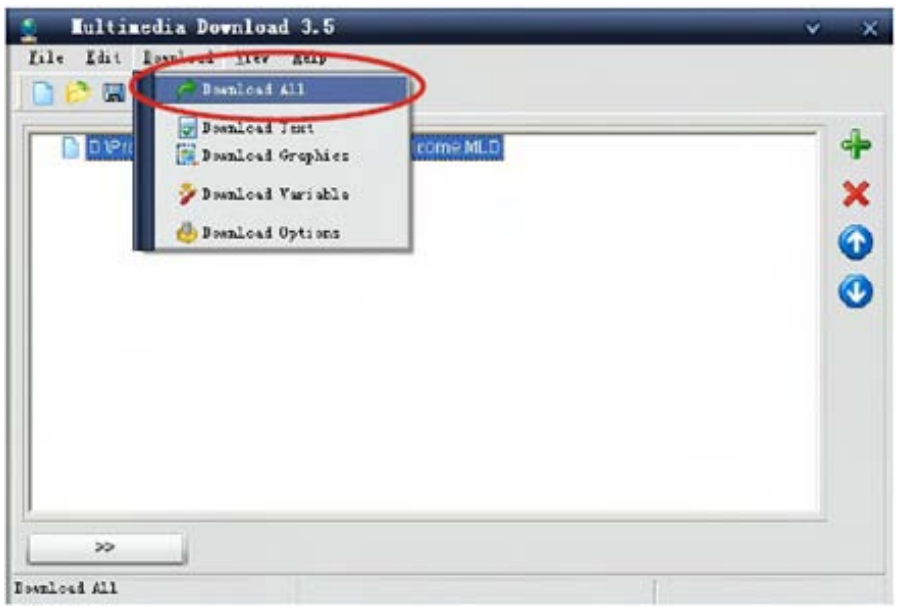
Step6 Select “Serial Port” under “Communication Mode”, then click “+”, now we will set up two signs communication, the first's sign number is 01, the second is 02, the information is sent from the COM1 port of the pc to both signs, set up “Baud rate” to “9600”, then click “OK”.



Here we are telling the software that we want to send "Welcome. mld" to sign 01 and sign 02, or more signs.

Note: If want to send the same message to all connected RS232 or RS485 signs, then you only to setup the communications: COM1 (or your communications port) ; Baudrate: 9600; Address: 00 (the broadcast to all address)

Step8 Click "Download All" under "Download"

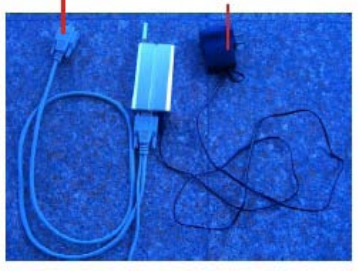


Setting up GSM communications

Step1 Connect the GSM modem to the PC.

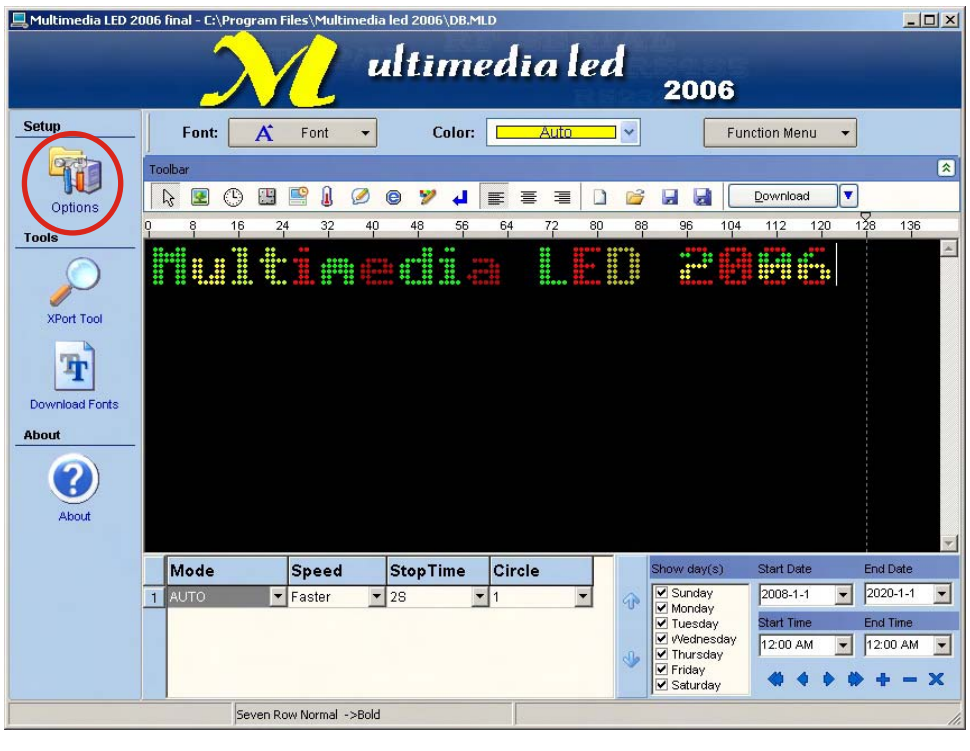
Connect to the COM port on the PC

Connect to the mains power socket

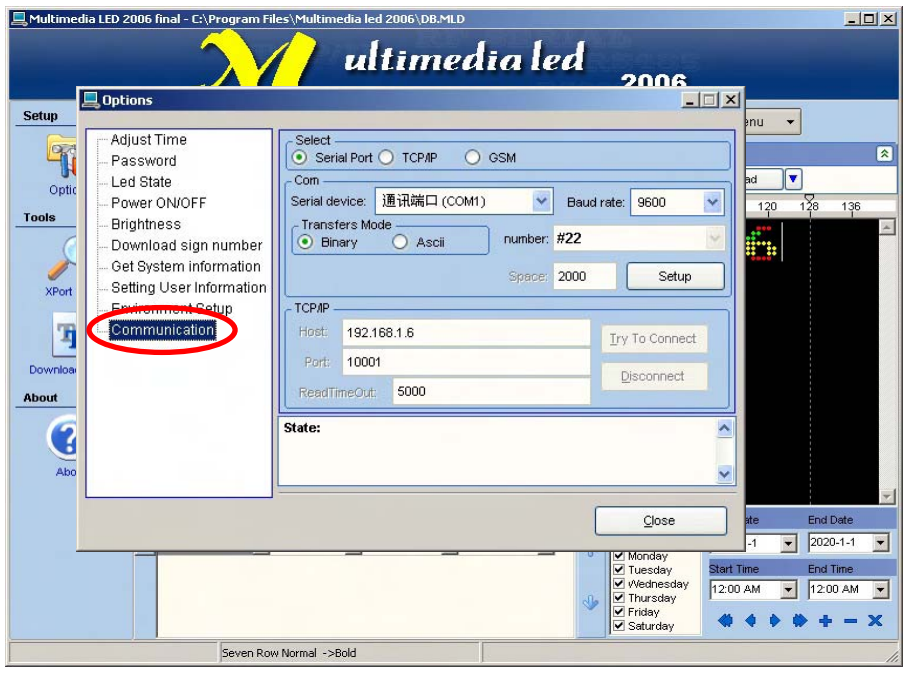


Note: You must get your local GSM service provider to activate the GSM data transmission service on your SIM card.

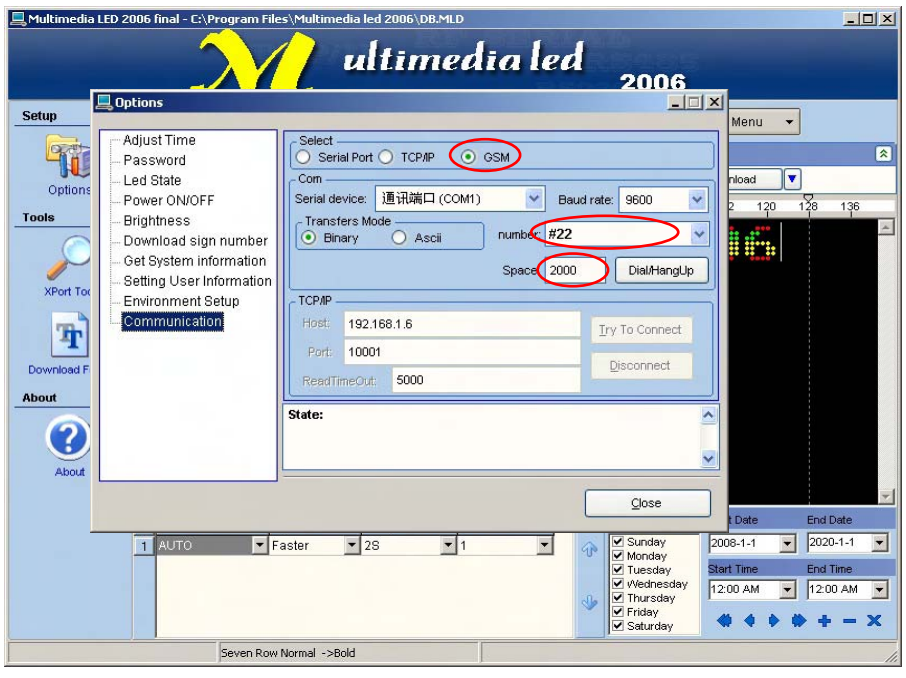
Step2 Click on "Options" on the software.



Step3 Click on "Communication" .



Step4 Select "GSM/Modem" ,then enter your number, finally click on "Dial/Hangup" .



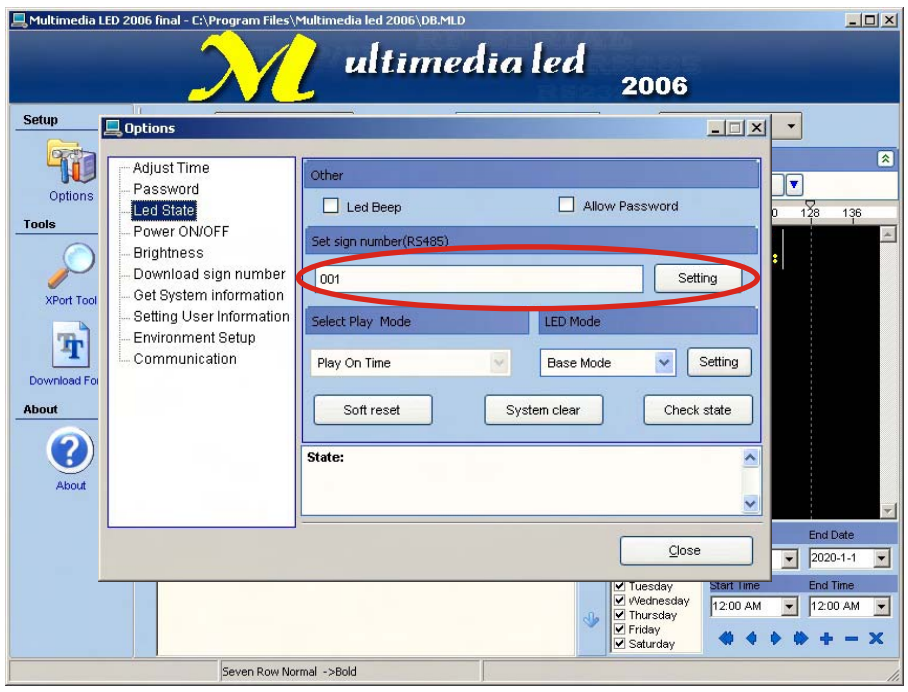
Setting the LED Sign equipment number（unit address）

Step1 To do this you should only have a single sign connected as this sets the address on all connected signs

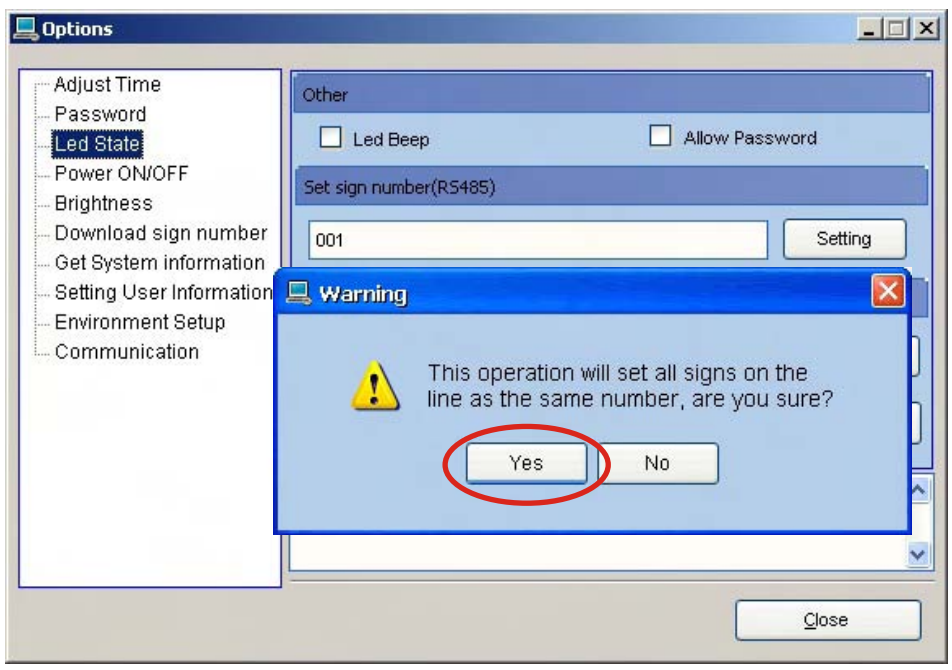
Step2 Click on “Options”

Step3 Click “Led State”.

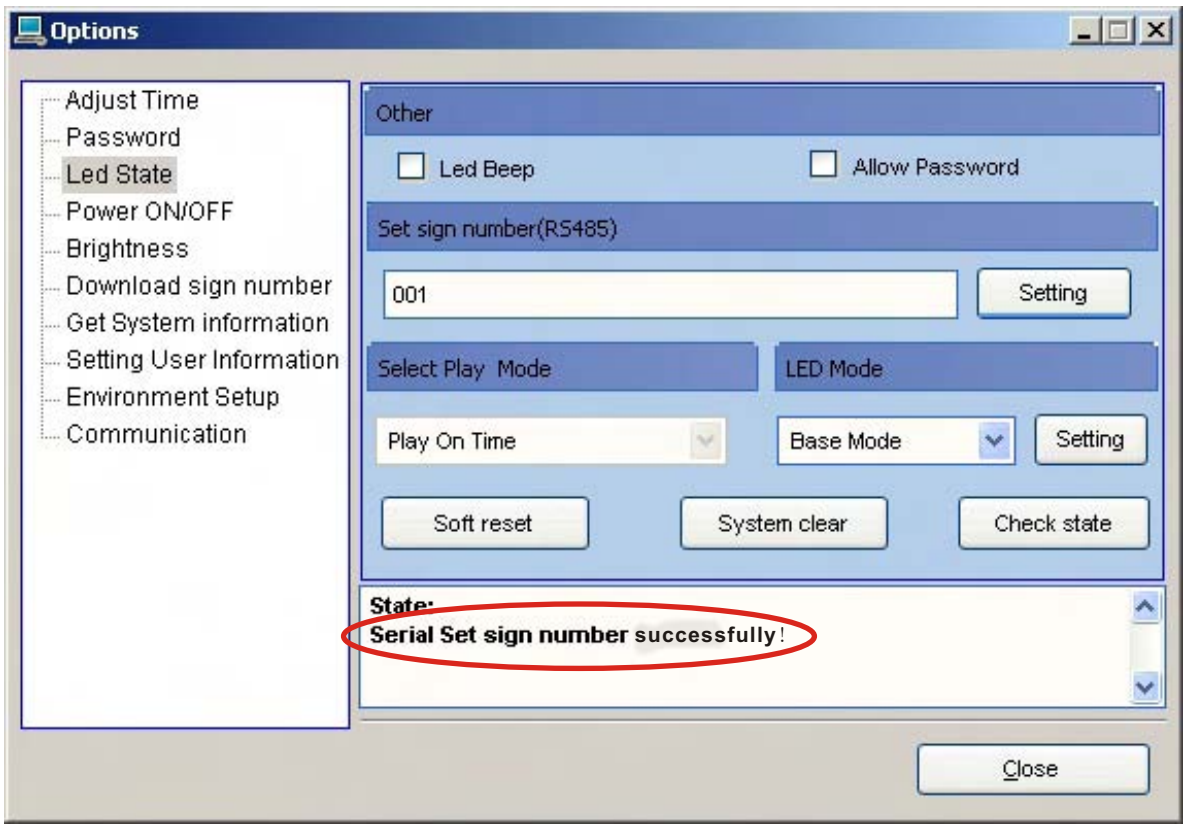
Step4 Set equipment number, and then click “Setting” .



Step5 Click “Yes”.

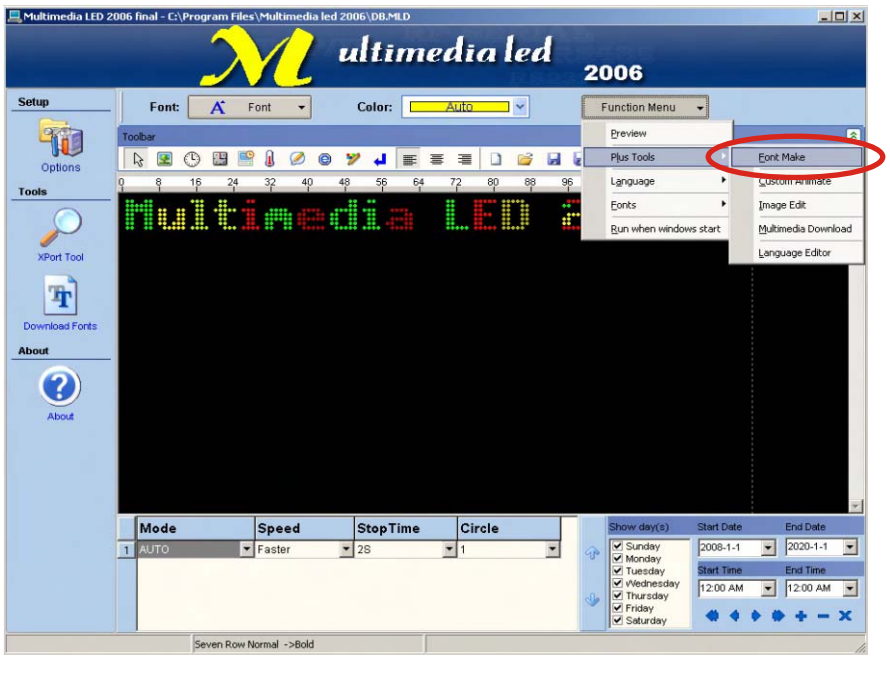


The state window should then show ″Serial Set sign number successfully″,if it doesn't, then check you cables and communication port setups.

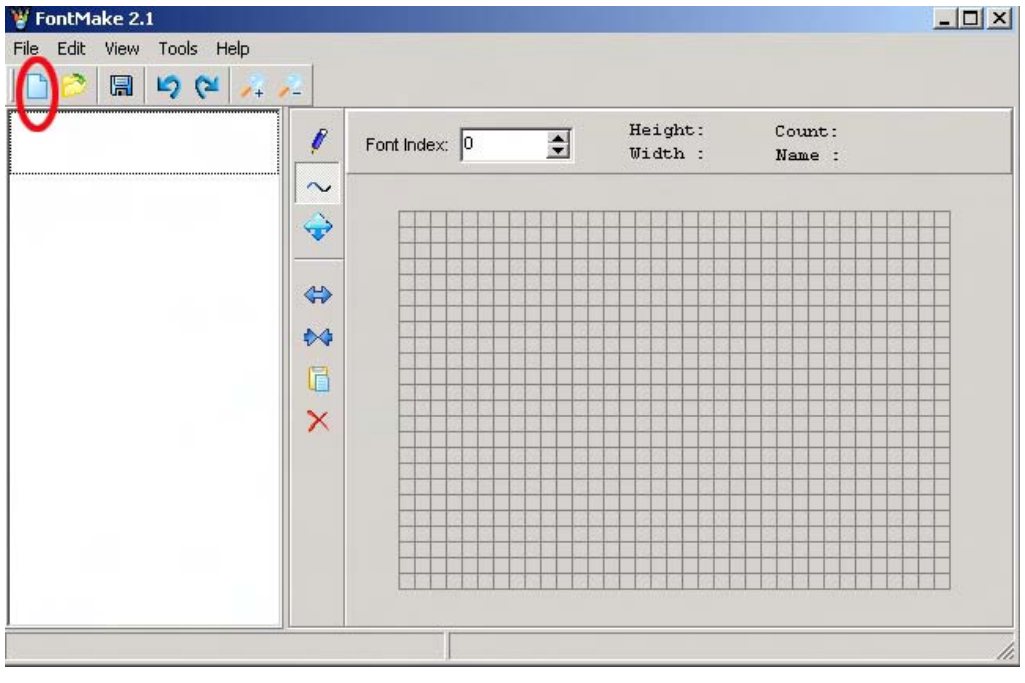


Making and Editing Fonts

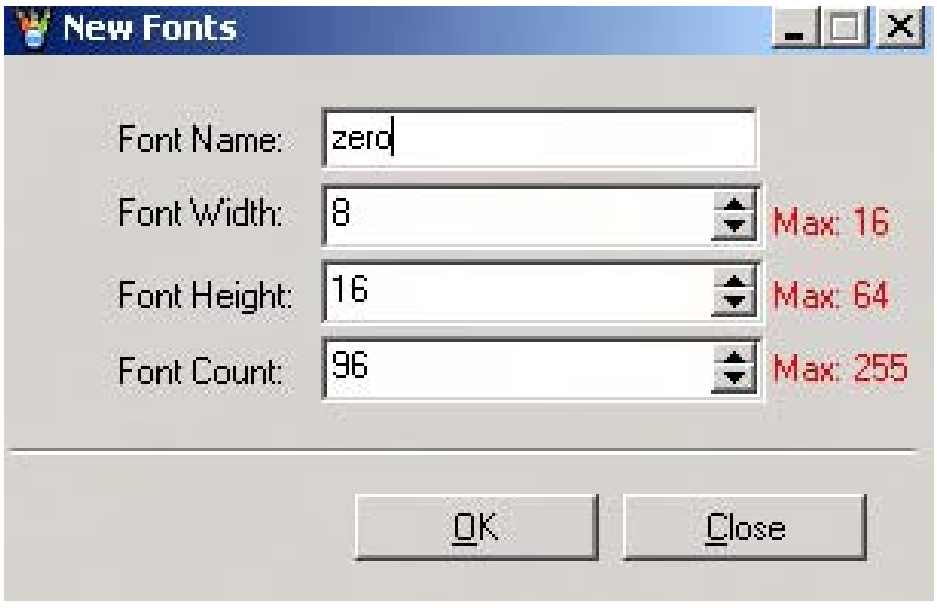
Step1 Click "Font Make".



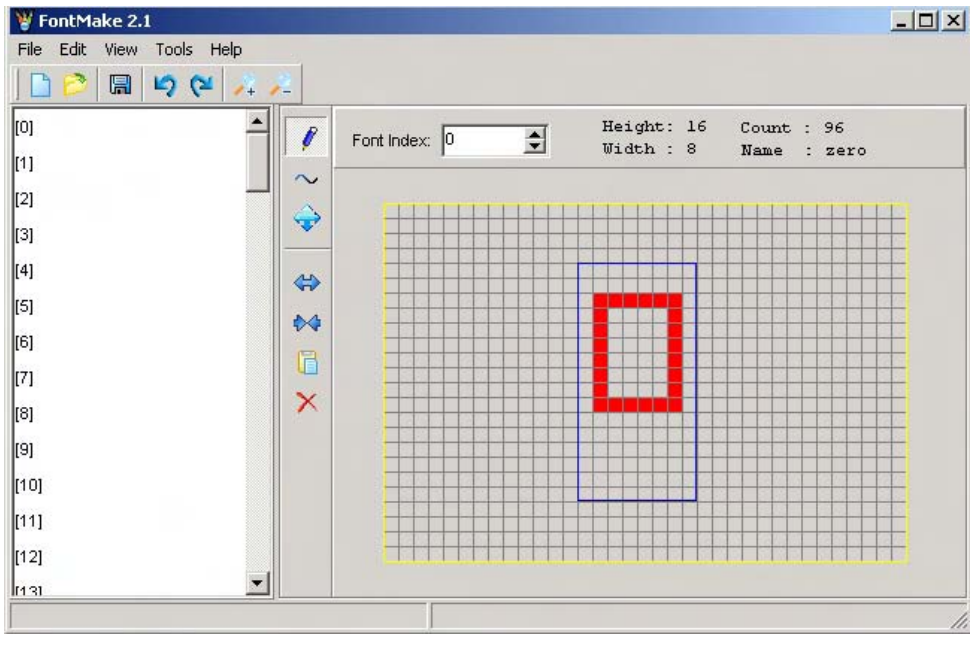
Step2 Click "New font files".



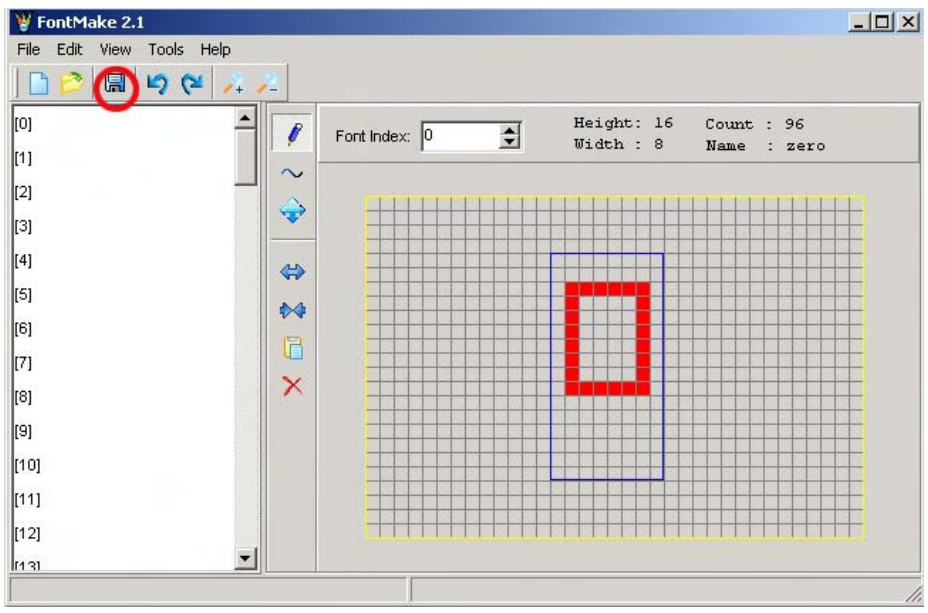
Step3 Set parameters for font. Click "OK".



Step4 Draw font character in the edit area.

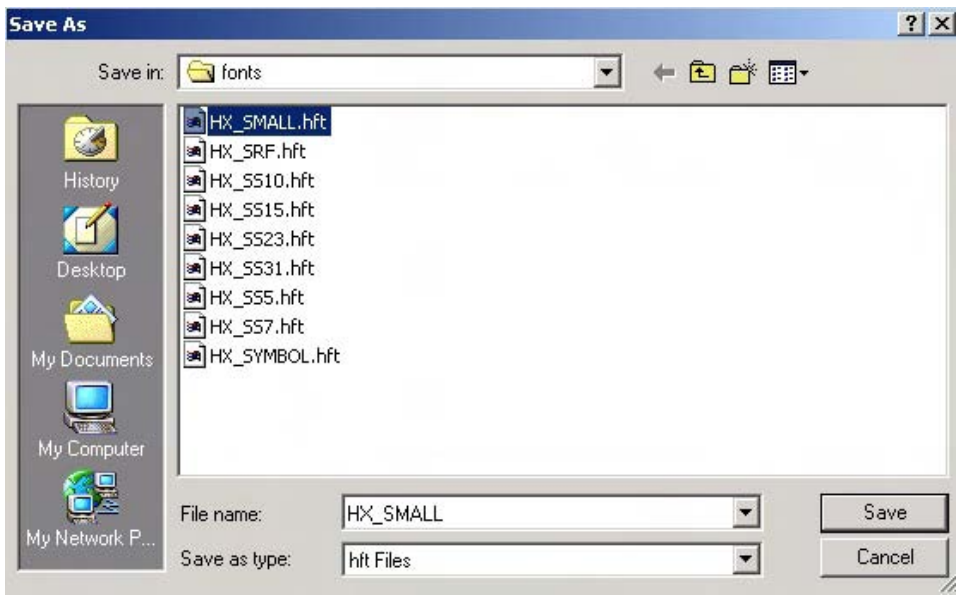


Step5 Click “Save”after each character you draw or you will lose the one you have just done.

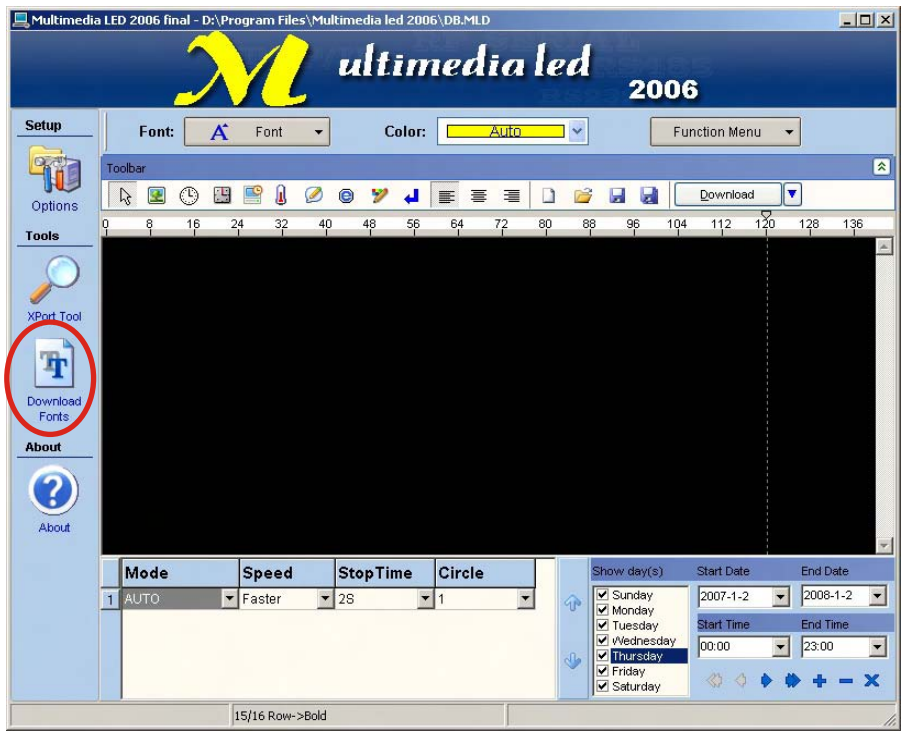


Step6 Save the new font file to the folder where the original font files are stored on the pc.

Note: you must replace an existing font with the new one you have just saved.

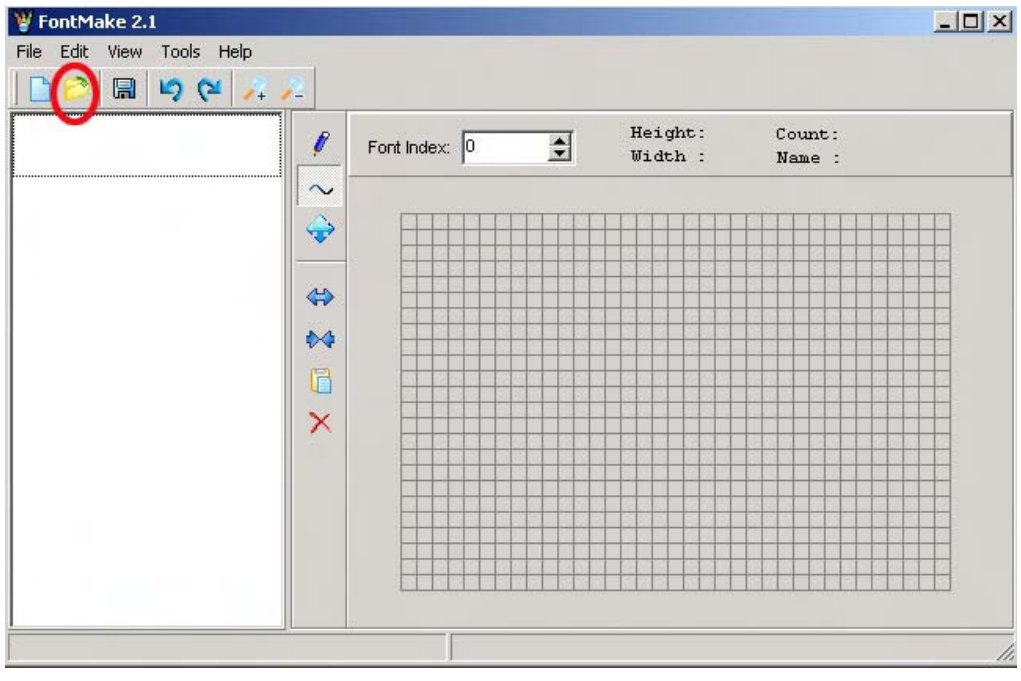


Step7 Click “Download Fonts” to download the new font file onto the sign.

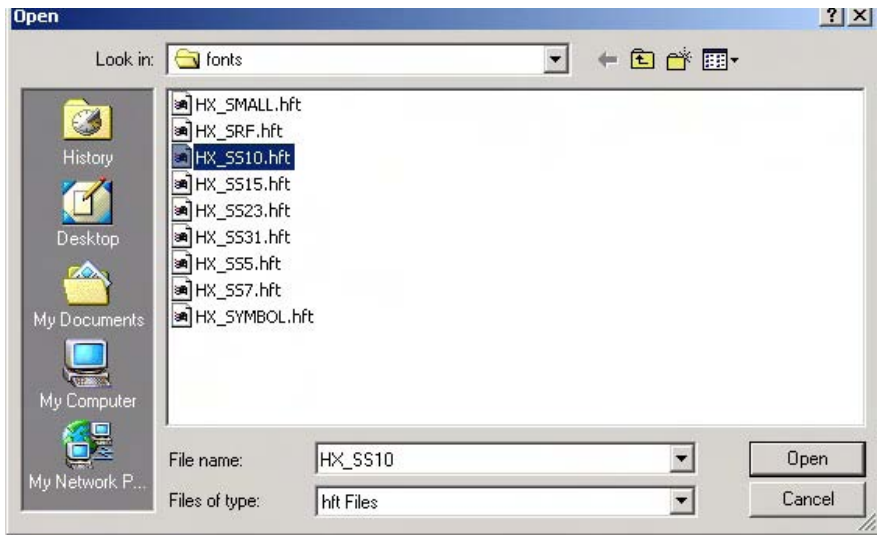


Note: The easiest way to make fonts is to modify the existing ones, then save the modified one onto the sign.
Follow steps below:

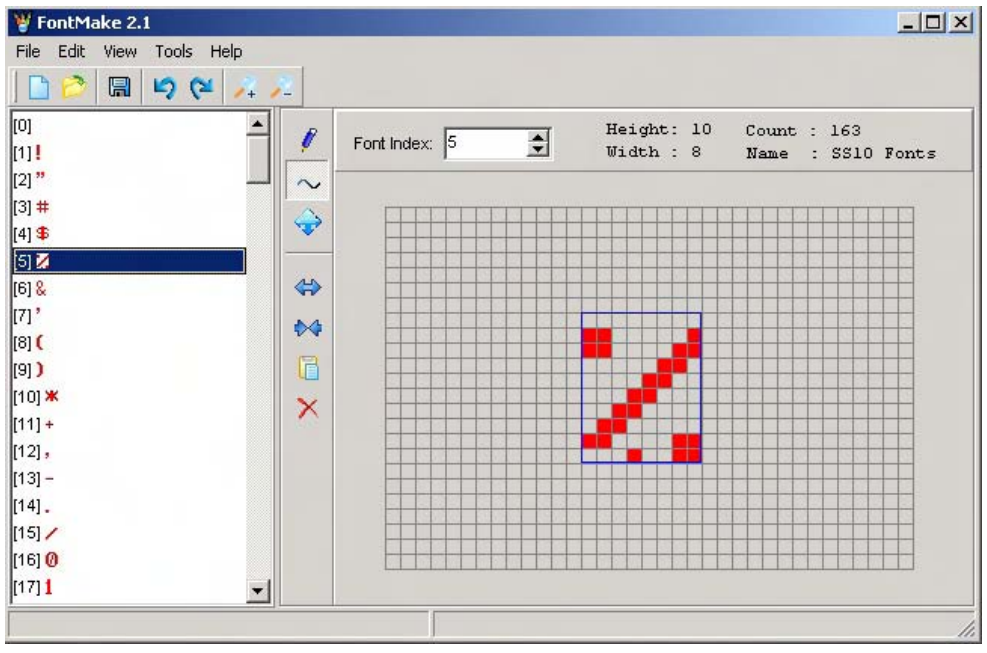
Step1 Click “Open” .



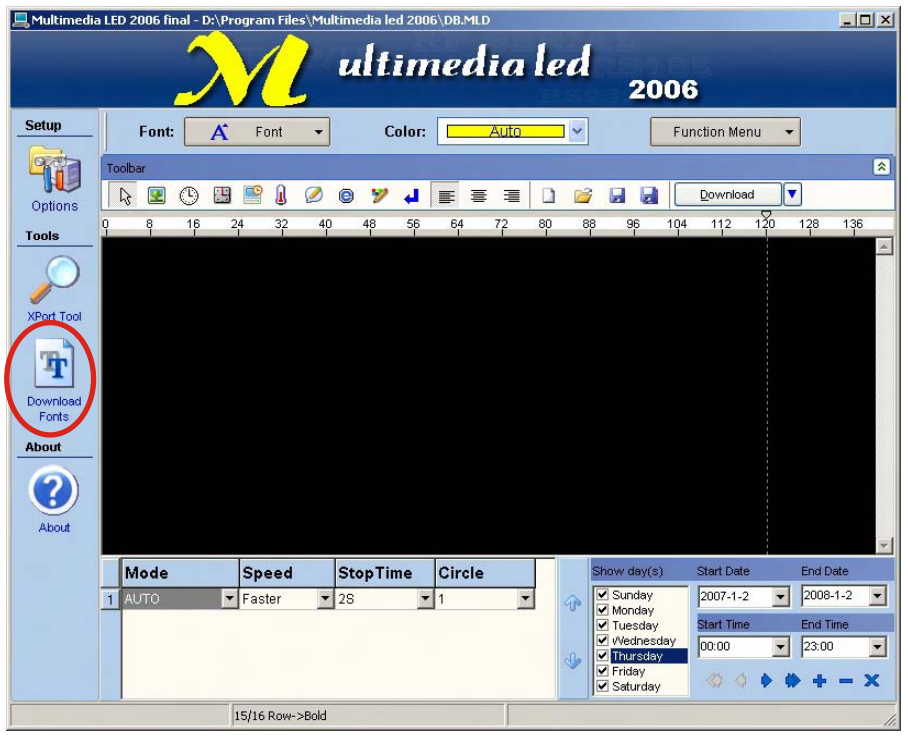
Step2 Open one of the existing font files.



Step3 Select a character, modify it, and then click “Save”.



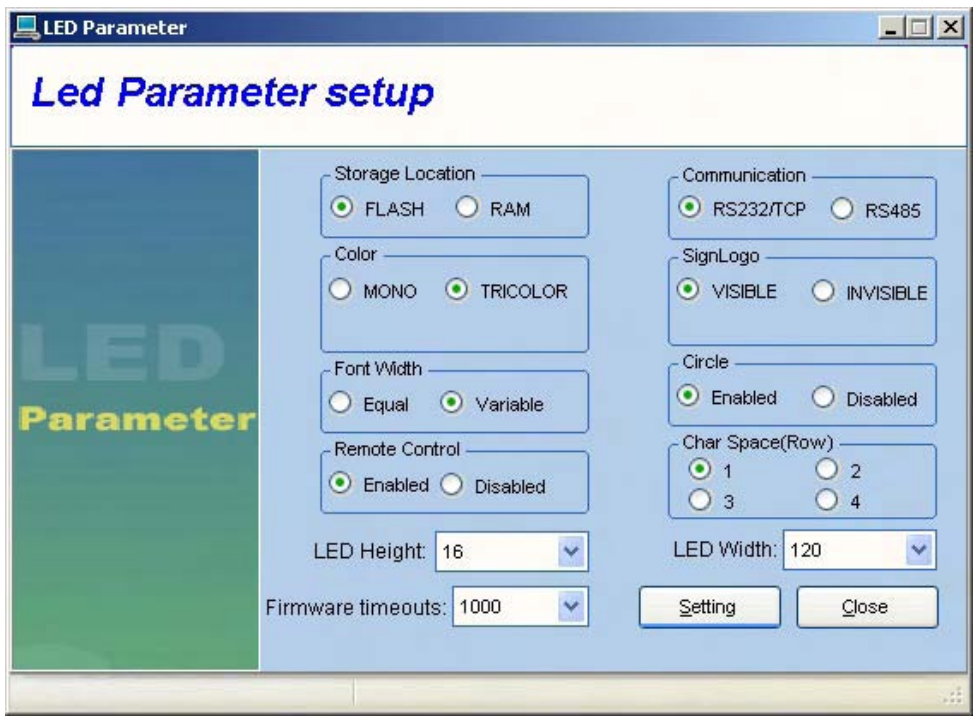
Step4 Click “Download Fonts”to download the new font file onto the sign.



CTRL+F3 Do not use unless you have a specific setup requirement

The CTRL+F3 functions allow you to setup your sign firmware; do not modify these parameters unless you specifically have to as the wrong settings will stop your sign working.

Press CTRL+F3 and the following menu appears



Please note: The information shown is not live; it has not been read from the sign so you must set all the pasrameters, you cannot just change the one you want to modify.

The choices are as follows:

Storage location:	This is either FLASH or RAM, FLASH is per manent storage so you should use this if you want to store many messages to be displayed over and over again. RAM is if you want to send single messages which are changed often– such as a production machine updating the display with the number of parts it has made.
Color:	Mono is for a single color sign (1 LEDs per pixel), Double is for a multicolor sign (2 LEDs per pixel), Tri is for a full color sign (3 LEDs per pixel).
Font Width:	Equal means that all characters are the same width, Variable means that the characters vary depending upon which character you use, so W is wider than I
Remote Control:	Enabled allows the remote control to work, disabled turns off the function (not all signs support remote controls)
LED Height:	This is the height (in LEDs) of your sign
LED Width:	This is the width (in LEDs) of your sign
Firmware timeouts:	Normally 1000, but if you have communication problems then you can increase this
Communication:	RS232/TCP for RS232 and TCP/IP signs select this. RS485 for RS485 mode then select this
Sign Logo:	On power up, the sign can show information about itself, including its equipment number, the clock, firmware version etc. This allows you to turn this feature on and off.
Circle:	Enables or disables the circle function
Char Space(Row):	Allows you to set the numbers of blank columns between each character, we would recommend you leave it at 1.
LED Module:	Positive: for ultra-bright signs. Reverse: for normal brightness signs.

Once you have the correct information entered click “Setting”. The state window should then show 'Serial Set parameter successfully!', if it doesn't, then check you cables and communication port setups.