

LED DISPLAY SYSTEM

USER'S MANUAL REV.2.0

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PLEASE READ BEFORE STARTING

This manual contains three overall sections:

- IR Remote Section
 Programming your new sign using the included
 IR Remote Keyboard
- Software Section
 Programming your new sign using the included
 Software
- Quick Reference Section
 Corresponding Codes for IR Remote Keyboard
- Help Section Most commonly asked questions, troubleshooting, contacting technical support

The step-by-step process of explanation will help you accomplish a few examples before starting on your own.

KEY FEATURES

COLORS AND FONT SIZES

By combining colors and different font sizes, the LED display will allow you to advertise and capture your customers attention like never before.

VISUAL TEXT EFFECTS AND GRAPHICS

With such functions as cycling, scroll-up, scroll down, and overlap, advertising has never been so much fun! powerful graphics editor can create your own to make your messages stand out!

DEPENDABILITY AND DURABILITY

All of our signs are manufactured under strict quality controls for years of problem free operation. The aluminum casing minimizes interference and assures reliability wherever it is installed.

LARGE MEMORY AND MESSAGE STORAGE

The led display system is equipped with 32K of memory with the capability to retain your programmed information for up to 30 days when not used.

* Internal back-up battery.

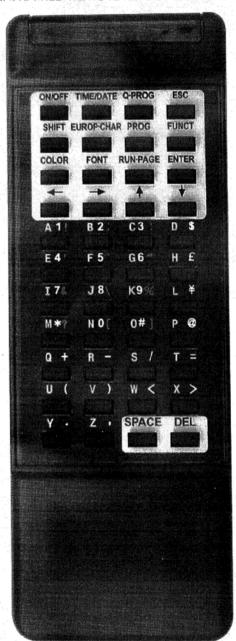
SCHEDULE DISPLAY FUNCTION

To display different message with different time/date. One touch easy operation press one key to display date and time or pre-loading message.

Led display system Software for use with Windows 98 and higher Please see the Software Section, for all the features!

KEYBOARD LAYOUT

INFRA-RED REMOTE KEYBOARD LAYOUT



Command Keys Keys located in the yellow area

Character Keys
Keys outside the yellow area
Upper Case Keys (26) A-Z
Lower Case Keys (26) a-z
Numeric (10) 0-9
Symbols (29) !; ...
European (64) Â
Please refer to page 6-7 for
instructions on displaying
European characters

NOTE:

IR keyboard must be pointed at the built-in infra-red sensor located on the top left hand corner of the sign.

Optimum operating distance should be around 5' to 30'.

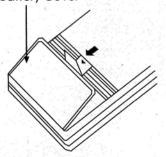
DO NOT subject the remote keyboard to impact, water or excessive humidity.

The remote keyboard operates on two R6 (UM/SUM-3, AA) or AAA 1.5-volt batteries.

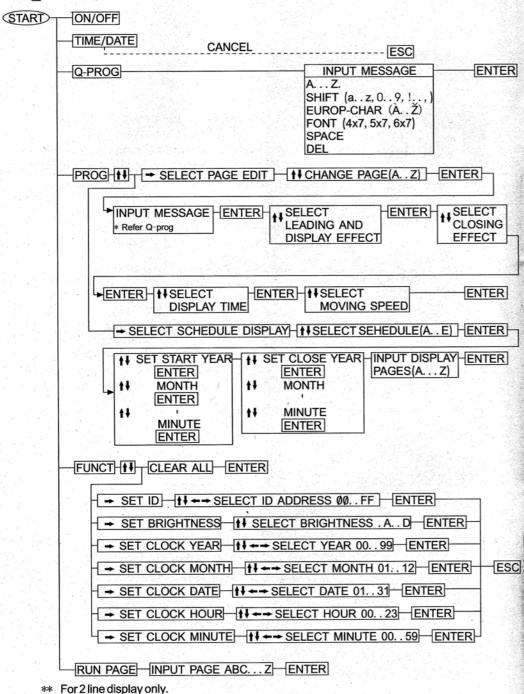
Batteries not included.

Inserting Batteries

Battery Cover



(III) IR REMOTE OPERATION INSTRUCTION DIAGRAM



<u>IR SECTION</u> GETTING STARTED BY REMOTE CONTROL

PRESS ON/OFF

The sign will display on and off

PRESS TIME/DATE --- ESC (OFF)

To display the time and date message only, press **ESC** to cancel time/date display function.

Programming a simple message with Q-PROG

Let's practice how to program a simple message by following the steps below. Make sure your sign is currently running a message.

<u>Press</u> <u>Display</u> <u>Description</u>

1. **Q-PROG** Stop the sign and wait for message

input

2. **HELLO SPACE** HELLO Key-in "HELLO" using the

character keys

TIP: If you key-in a wrong character, press **DEL** to delete the last character entered.

3. **ENTRE** HELLO HELLO Runs the message you programmed

PROGRAMMING ALTERNATE CHARACTERS

Display lower-case Letters, numbers, and symbols using the SHIFT key.

Please take notice of the INDICATION BLOCK, which appears on the left hand corner of the sign whenever the **SHIFT** key is pressed in the following steps.

- 1. Press **Q-PROG** to stop the sign. and program a message
- 2. Press A to display the letter" A".
- Press the SHIFT key once. Now press any one of the letter character keys on the IR Remote. character keys active (lower-case mode).
- 4. Press **SHIFT** again. Now press any one of the white number character keys on the IR Remote, white character keys active (numerical mode).
- 5. Press the **SHIFT** key again. Now press any one of the green symbols character keys on the IR Remote. green character keys active (symbols mode).
- 6. Press **SHIFT** again to return you to the upper-case mode. Press any letter key to verify that you are back in the upper-case mode.

NOTE: Upper-Case mode is the default selection when beginning to program. Once you press the **SHIFT** key, you are no longer in the upper-case mode. Follow steps 3 - 6 to toggle between modes.

7. Press **ENTER** to run your message.

Displaying European characters using the EUROP-CHAR key.

- 1. Press **Q-PROG** to stop the sign. and program a message.
- 2. Press A to display the letter "A".
- 3. Now press the **EUROP-CHAR** key. As you will notice, the letter "A" has now changed its shape to the European letter. Continue to press the **EUROP-CHAR** key until you reach the European style "A" of your choice.

TIP: To revert back to the normal character, continue to press **EUROP-CHAR**Also, you can press any letter at any time to continue to type normal characters.

- 4. Following previous steps 2 and 3, try to display the European character for the letter "U".
- 5. Press **ENTER** to run your message.

PROGRAMMING ALTERNATE CHARACTERS

Displaying European characters in lower-case using the and SHIFT EUROP-CHAR key.

- 1. Press **Q-PROG** to stop the sign. Press and program a message.
- Press the SHIFT key once to go into the lower-case mode. Remember, the SHIFT key toggles you from 4 different modes. Upper case, lowercase, numerical, and symbols mode.
- 3. Now press **C** to display the letter" C "in lower-case.
- 4. Now press the **EUROP-CHAR** key. As you will notice, the letter" c "has now changed its shape to the European.
- 5. While staying in the lower-case mode, try to display the European character for the letter "o".
- 6. Press **ENTER** to run your message.

NOTE: There are 64 European characters that you can choose from. Please refer to the Quick Reference Guide for the European Characters Table and corresponding letters.

TIP: Use the letter "G" with **EUROP-CHAR** to display some Greek characters.

(III) ATTENTION GETTING FEATURES

Displaying pre-loading message or graphics page.

Let's say you had pre-loaded a message to page e and you wanted to display

<u>Press</u>	<u>Display</u>	<u>Description</u>
1. RUN-PAGE	STOP MODE	Stops the sign and wait page
2. E	(PG: E)	Display PAGE E
3. ENTER		Runs your message

NOTE: There are 26 pages can pre-loading message that you can select to display from A To Z.

Link display pre-loading message

<u>Display</u>	<u>Description</u>
STOPMODE	STOPANDWAIT PAGE DATA
(PG:A,B,E)	DISPLAY PAGE A,B,E
	RUNS YOUR MESSAGE.
	STOPMODE

ATTENTION GETTING FEATURES

Using the COLOR key to select a text color.

- 1. Press **Q-PROG** to stop the sign and program a message.
- 2. Press S U to display the letter.
- 3. Press the **COLOR** key. as you will notice "SU" have now changed to different color.
- 4. Now press **COLOR** key again to view the different text colors. Once you see the color you wish to use, Your color has now been selected. The color you select will stay active until another color is chosen.
- 5. Key in the word "SUCCESS".
- 6. Press **ENTER** to run your message.

NOTE: Please refer to the quick reference section for the color table.

Using the FONT key to select font sizes.

- 1. Press **Q-PROG** to stop the sign and program a message.
- 2. Press **A B** to display the letter.
- 3. Press the **FONT** key, as you will notice "AB" have now changed to different font.
- 4. Now press the FONT key again to view the different font sizes.
 Once you see the font size you which to use. Your font size has now been selected.
 The font you select will stay active until another font is chosen.

- 5. Key in the word "ABLE".
- Press ENTER to run your message.

NOTE: There are many font sizes that you can select from. Please refer to the Quick Reference Section, for the Font Size Table.

ADVANCED FEATURES

Adding special effects to your message using the PROG key.

Now the real fun begins! Let's program a message using the effect

- 1. Press **PROG** to program a message.
- Press select page edit function.
- 3. Press to select PAGE A. (Total 26 page can be selected from A..Z)
- 4. Press 1 to program PAGE A. The sign will read: (PAG: A)
- 5. Press the **ENTER** to edit PAGE A
- 6. Key-in the word "COOL".
- 7. Press the **ENTER** The Sign will wait for effect input.
- 8. Now press the week keys to scroll through the various leading and display effect.
- 9. Press **ENTER** when you confirm the effect selection.
- 10. Press 1 keys to scroll through the closing effect.
- 11. Press **ENTER** when you confirm the effect selection.
- 12. Press keys to select the display time.
- 13. Press **ENTER** to confirm the display time.
- 14. press 1 keys to select leading and closing effect moving speed from "0..4".
- 15. Press **ENTER** when you confirm.

NOTE: There are many effects that you can select from. Please refer to quick Reference Guide for the Effects Table and corresponding letters.

Adding schedule display using the PROG key

- 1. Press **PROG** to stop the display.
- 2. Press I to program schedule display.
- 3. Press to enter the schedule selection.
- 4. Press 1 to set up the schedule display time. max 5 schedule can be set up from A to E.
- 5. Press **ENTER** to confirm schedule timer selection.
- Press to select starting year field.
- 7. Press 1 to edit the year.
- 8. Press **ENTER** to confirm year input and go to start, month input.
- 9. Press 🗪 🗲 to select starting month field.
- 10. Press 1 to edit the month.
- 11. Press **ENTER** to confirm month input and goto start date input.
- 12. Press to select starting date field.

- 13. Press 1 to edit the date.
- 14. Press **ENTER** to confirm date input and goto start hour input.
- 15. Press to select starting hour field.
- 16. Press 1 to edit the hour.
- 17. Press **ENTER** to confirm hour input and goto start minute input.
- 18. Press to select starting minute field.
- 19. Press 1 to edit the minute.
- 20. Press **ENTER** to confirm minute input and goto closing year input.
- 21. Repeat step 6 to 20 to complete the closing timer set up and you will see "*".
- Press characters key A,B,C...Z to input display page for the schedule.
 * Press DEL if input is wrong.
- 23. Press ENTER to confirm the schedule set up.
 - *There are max 5 display schedule from A to E can be set. Please repeat step 1 to 23 to complete the next schedule setting.
 - * If you want to cancel the schedule display, please refer "resetting system using the **FUNCT** key" procedure.

(III) ADVANCED FEATURES

Displaying the time and date using the TIME/DATE key,

 Press the TIME/DATE key to ENTER the date/time display mode, date & time will display alternatively for 3 second.

Cancel display the time and date using the ESC key.

1.Press **ESC** and wait 3 sec.

the display will back to narmal message display.

Running combined Pages using the RUN PAGE key.

This feature allows you to link up to 26 pages together as one long message. Remember to have your messages programmed before setting this feature.

- 1. Press **RUN PAGE** to stop the sign.
- 2. Press the AtoZ key. to select the 'select run' pages, press ENTER to confrim
- 3. Key in the pages A B C to run the page link A and B and C.
- 4. Key in **ENTER** to run message.

Resetting system using the **FUNCT** key

- * Any time you can press **ESC** to skip the set up process.
- 1. Press **FUNCT** to enter the set up function
- 2. Press ₹ key select "clear all Y?"
- 3. Press **ENTER** key.

Setting id address using the FUNCT key

- 1. Press **FUNCT** to enter set up function
- 2. Press key to select "ADD00"
- 3. Press to select the address field
- 4. Press 1 to edit the address from 00 to ZZ
- 5. Press **ENTER** to confirm address set up.
- 6. Press **ESC** to return to normal display

*Address ID set up only for more than one display sign connect with one data cable. That the data can be separated send to the display from PC with ID address.

Setting brightness using the **FUNCT** key

- 1. Press **FUNCT** to enter set up function
- 2. Press to brightness set up function
- 3. Press → to select brightness field.
- 4. Press 1 to edit brightness level from high to low "A..D".
- 5. Press **ENTER** to confirm brightness set up.
- 6. Press **ESC** to return to normal display

(III) ADVANCED FEATURES

Setting system clock using the FUNCT key.

- 1. Press **FUNCT** to enter set up function
- 2. Press I I I to set up year data
- 3. Press to select the year field.
- Press to edit the year data.
- Press ENTER to confirm year setting.
- 6. Press 1 to set up month data.
- 7. Press to select the month field.
- 8. Press 1 to edit the month data.
- 9. Press **ENTER** to confirm month setting.
- 10. Press I to set up date data.
- 11. Press to select the date field.
- 12. Press 1 to edit the date data.
- 13. Press **ENTER** to confirm date setting.
- 14. Press to set up hour data.
- 15. Press → to select the hour field.
- Press to edit the hour setting.
- 17. Press **ENTER** to confirm hour setting.
- 18. Press

 to setup minute data.
- 19. Press to select the minute field.
- 20. Press 1 to edit the minute data.
- 21. Press **ENTER** to confirm minute setting.
- 22. Press **ESC** back to normal message display.

SOFTWARE SECTION

PC system required

Operating System: Win98/Win me/Win NT/ Win 2000/Win XP

CPU: Intel Pentium 166 or above

RAM: 32M or above Monitor: VGA or higher Serial Output: R\$232 port

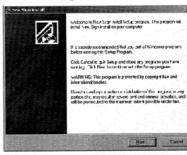
Software installation instructions

Insert the LED Display System disk into your CD-ROM drive. That will auto-run and the first screen comes up. Click INSTALL to go installation. Choose READ ME to show you the required system. EXIT will quit the installation.



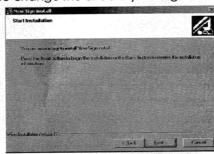
Click INSTALL to go ahead the installation and continue the Choose Next to continue, Click

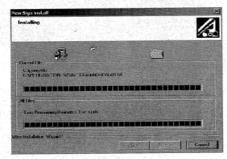
BROWSE to select the directory to install the program. The system preset is C:\Program Files\New sign.





Click NEXT to keep on installation
Choose NEXT to run the file installation to copy
the file to your PC hard disk. Choose CANCEL to quit installation
program or BACK to change the directory setting.

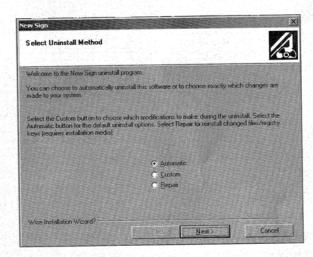




After copying the file is complete, click on Finish. Finish the installation, and shortcut icon for quick start will be on the desktop screen. And simultaneously create DIRECTORY in your PC program group.

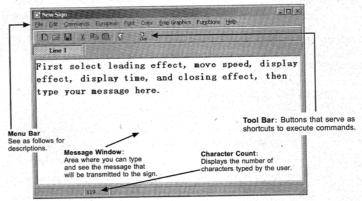


If you want to uninstall the system, just double-click the unwise. exe at the Program Group\ New Sign.



Select Automatic and click NEXT. The program will automatically uninstall.

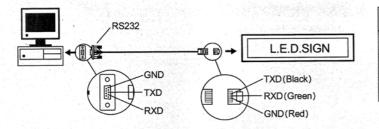
SOFTWARE SCREEN



SET-UP

Connecting the cable

- 1. Connect the Phone Clip end of the Phone Type Cable to the sign.
- On the back of your computer, identify a COM PORT. If you have trouble locating a COM PORT on your computer, please reference your computer user manual or contact the manufacturer of your computer.
- Connect the 9-Pin connector end to the COM PORT you will be using. If the 9-pin connector is not connected to the correct COM PORT, computer communication to your sign will not work.



RS232	PHONE JACK
PIN2	RXD(Green)
PIN3	TXD(Black)
PIN5	GND(Red)

Toolbar

Opens a new Message Window.

Opens an existing File.

Saves the current message in the Message Window.

Cut the highlighted selection and put it on the clipboard.

Copy the highlighted selection and put it on the clipboard.

Paste the contents of the clipboard.

Sends the message in the Message Window to the sign.

SendsthemessagethroughLAN.

(THE MENU BAR

File

New Open : opens a new window. : opens an existing file.

Save

: saves the file currently open.

Set Comm

: allows you to set the communication settings.

Exit

: exit the software program.

Edit

Cut Copy : Cut the highlighted selection and put it on the clipboard. : Copy the highlighted selection and put it on the clipboard.

Paste : Paste the contents of the clipboard onto the active

document.

Delete : Use this co

: Use this command to remove selected content from the

Message Window.

Commands

Leading

: How the text will appear .

Speed : Contro

: Control the leading and closing moving speed

Display effect

: How the text will display.

Display time

: How long the message display. : How the text will disappear.

Closing Special

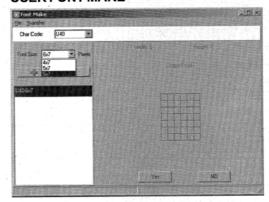
: Insert the TIME, DATE, a "BEEP".

European

Default European characters table for select.

€ noo	↑ τοι	↓ U02	003	T U04	_ UOS] U06	L 007	→ 008	T009
T UOA	_ U0B	# noc	_ nod	L NOE	UOF	■ U10	U11	U12	U 13
₩ U14	₿ v15	Г 1016	T 017	Σ U18	σ _{U19}	μ υιΑ	T UIB	▼ aic	🛭 UID
Ω UIE	δ UIF	∞ U20	➤ U21	♦ U22	£ 1023	8 U24	¥ 025	\rightarrow U26	← U27
₺ ॻ28	© U29	a UZA	≥ U2B	€ U2C	O U2D	D U2E	Œ U2F	Š U30	± U31
2 U32	3 U33	Ž U34	Ÿ U35	¶ 036	œ _{U37}	Š U38	1 U39	O USA	€ U3B
1/4 U3C	½ U3D	Ж ИЗЕ	¿ U3F	À U40	Á U41	U42	Ã_U43	Ä_U44	Å_U4:
Æ U46	Ç U47	È_U48	É_049	È U4A	E U4B	<u>Î</u> _U4C	Í_U4D	Î_U4E	<u>Ï</u> _U41
Ð U50	Ñ US1	0 052	Ó _053	0 _054	<u>0</u> _055	<u>Ö_</u> U <u>5</u> 6	Ž_U57	θ _υ ₅₈	<u>Ù</u> uss
Ú USA	U_USB	Ü_usc	Ý_USD	Þ_USE	B_USF	à_U60	<u>a΄</u> υ <u>61</u>	_ a _∪62	ã U63
ä_U64	a _065	æ _{∪66}	Ç_U67	è_∪68	€ U69	ê_U6A	ë_∪6B	<u>ì</u> _U6C	1_U6I
1 U6E	ï_U6F	ð ₀₇₀	ñ 071	Ò_U72	Ó _U73	0 _074	ο υ25	Ö U76	T7
Ø 078	Ù U79	Ú U7A	û 078	Ü U7C	Ý U7D	Þ ∪7E	ij _{U7F}		

USER FONT MAKE



Select the char code where the character you will change, and then select font size. Click to add the item in the list box. Then select this item to draw the font. Repeat the process for the same character with different font size, example: U40-4x7,U40-5x7,U40-6x7.

Click **Transfer|Transfer to Sign** to update the user font of the sign.

Click File | Save Font on this window to save a file.

RECALL DEFAULT FONT

Use for recall the above default European characters font to the Sign and software.

(II) THE MENU BAR

Font

Select any one of font styles. European characters, or Greek symbols to be used in your message.

Colors Select any one of listed colors to use for your text.

Bmp Graphics

Edit Graphic...

: Edit and save your own graphic images, and then insert into the message window refer graphic edit section

11101111000

Function Send Message

: Send the current text in the Message Window to the LED Display Board. Before transferring, you should Select ID of Display Board (ID which you may set by "Set ID..." function). Simultaneously, Set which page you transfer to. There are 26 pages in all. Run Page

: Run a specified page on the LED Display Board.

Link pages To Run

: Link some pages in order to Run more than one Page.

For example, type in 'abc', the sign will display page A, page B, page C content consecutively.

Set ID

: Set ID of the Led Display Board.

Note: ID00 represents global call. If yon hare more than one sign, you might want to connect all the signs in a network, e.g. from ID01 to ID05 you can send message to any sign in the network by individual ID. To broadcast to all

the signs, use ID 00.

Set Clock

: Set the Date and Time the Display Board system Clock.

Delete Page Set Brightness

Display by Schedule

: Delete a specified page information on the sign.

:Set Display brightness, there are 4 levels of brightness. :Schedule a message to be displayed.

you may make some pages display from sometime to another time. max can set up to 5 Schedule items

one time.

Delete page Delete Schedule Delete All :Delete some pages in the running messages.

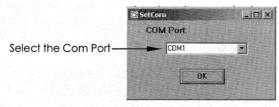
:Delete some items in Schedule table.

:Delete all messages in the LED Display Board.

(Except system clock)

© CONFIGURE SOFTWARE

Go to File and Set Communication



2. Click on OK when your settings are complete.

SENDING A MESSAGE

The Send Message icon is used to transmit the message to the sign.

 In the Message Window, type in a test message such as 'Welcome to my message".

2. Click on the icon on the Toolbar to bring up the

Message window.

Enter the Sign ID Number

** Select a page to send
your message to.

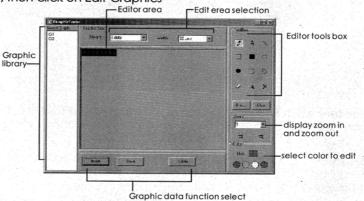
** You have pages A-Z available. Each page can be used to store a different message.

3. Glick on OK to send your message to the sign. If your sign did not receive your message, try sending the message again.

BMP GRAPHIC EDITOR

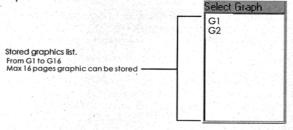
Use the Graphic Editor to edit or create graph-

ics of your own. To open the Edit Graphic window, click on bmp Graphics on the menu bar, then click on Edit Graphics



Select Graphic window

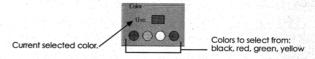
Click on any one of the graphics from the Select Graphic list to view the graphic in the Graphic window.



BMP GRAPHIC EDITOR

Color window

Select any one of four colors to edit an existing graphic or to create a graphic.



Edit graphic buttons

Functions of buttons are described below.



SAVE the current graphic displayed in the "Graphic" window. Graphic will be saved in the "Library".

DELETE a graphic from the "Library".

INSERT the current graphic in the "Graphic" window into your message.

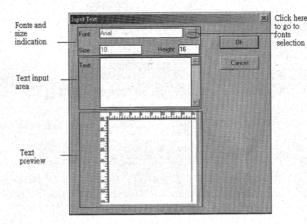
16

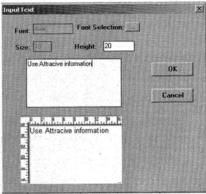
Edit function

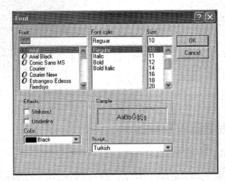
Editor tools box



- Pen tool: Click this tool, and move the mouse to Editor Area. Press and hold down the left button of your mouse, and move your mouse to free hand draw.
- Brush tool: Click this tool, and move the mouse to Editor Area. Press and hold down the left button of your mouse and move your mouse to get brushing function.
- Line tool: Click this tool. Move your cursor to select the starting point of the line. Then hold down the left button of your mouse, moving your mouse to the end point of the line. Then release mouse button.
- Outline rectangle tool: Click this tool. To select the starting point by moving your cursor and hold down the left botton of your mouse. Then move at the end and release mouse button.
- **Rectangle tool**: Same operation step as outline rectangle tool.
- Outline ellipse tool: Same operation step as outline rectangle tool.
- Ellipse tool: Same operation step as outline rectangle tool.
- Pointer tool: Click this tool. Select the edit area by press and hold down the left button of your mouse. Then the select area be round by release your mouse button. Moving the round area by hold down the left button of your mouse until the position you want. Then release the mouse button. Right click to fix the position.
- Polygon pointer tool: Same operation step as pointer tool.
- **Erase tool**: Click this tool. Just press and hold down the left button of your mouse and move your mouse to erase the area you want.
- Clear tool: Click this tool and select the color. Then moving cursor to edit area left click your mouse. That the whole edit area will turn to that color. If you select black color, the whole edit area will be covered by black in color. Same as clear function.
- Text tool: Click this tool. Move cursor to the starting point you want to put the text. Left click your mouse and text input will bring up. That you can type in your words or use windows cut and Paste function to input text. Then select the fonts and fonts size. Click OK Button to finish the text input. Then move the object to the position you want and right click your mouse to fix it.

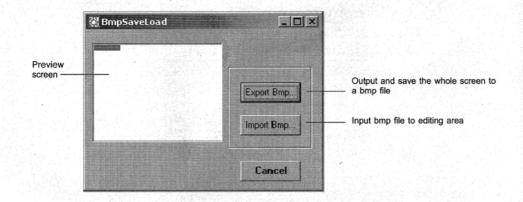






After clicking the Ok button in dialog box, move the rectangle area to proper position and right click the mouse to fix the information position.

- Clear function key: Left click this button to clear the whole edit area.
- Bmp file function key: Left click this button That can easily export the editing content to Bmp file, or import Bmp file edited by other program.



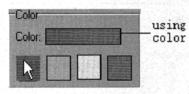
Display zoom in, zoom out function

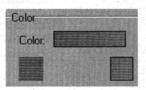
The zoom size can be selected from 1 to 8. 1 is the smallest. You can zoom in or zoom out to affect you edit job as



Color selection function

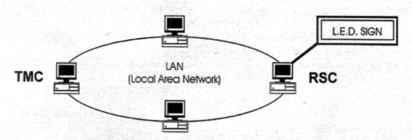
Just easily to left click the color button to select the color you want. If you edit a triple color frame, then you have four color boxes to select as. If you edit a single color frame, then you can select either red or black color box as





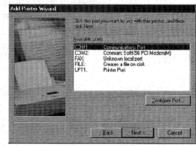
B LAN COMMUNICATION

The display is first connected to the Serial Communication Port of a computer in the LAN environment which we refer to as the Receiving Selave Ce omputer (RSC) The computer that will actually be transmitting messages to the display is referred to as the Terransmitting Messages as of the display is referred to as the Terransmitting Messages as of the display control software installed. It is not necessary to install the software on the RSC. The next step is to set-up a Generic/Text Only printer driver on the RSC and share it with the TMC. Once the set-up is done and a message created, a simple click on the button for "Send via Network" will bring up the "PRINT" dialog window. You then select the Generic/Text Only printer created and click on "OK" and your message is on its way.



RSC Printer Driver Set -Up

- Begin by clicking on "Start", "Settings", and "Printer". The "Printers" dialog window will appear.
- Double-click on the "Add Printer" icon. The "Add Printer Wizard" window will appear.
- 3. Click on "Next". Select "Local printer" and click on "Next" again.
- 4. Under " Manufacturers ", search for " Generic ". Select " Generic ON "Next". If prompted: "A driver is already installed for this printer", then select to "Keep existing driver" and click on "Next".
- Select the Communications Port on the RSC the display will be connected to and click on "Next". For Example: If the display is connected to COM1, select "COM".



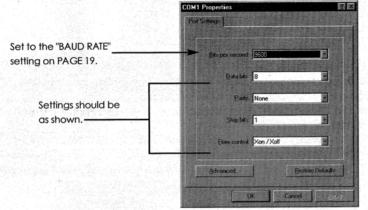
B LAN COMMUNICATION

6. Under "Printer name", type in the name you want for the Display Printer Driver. This name must be 12 characters in length. In the example below we used the initials "F.D." to represent "Front Desk". Select "No" to select the printer as the default printer and click on "Next".



- 7. Click on "Finish" to complete the set-up. If prompted for the Windows 95 CD or disk, insert CD or disk into the proper drive and click "OK".
- 8. Now select the printer you created. Go to "File" and click on "Properties".
- 9. Click on the "Details" tab then click on "Port Settings".

 Make sure the settings below are set accordingly. Click on "OK" when done.



- 11. Click on the "Sharing" tab and click on "Shared As". In the "Share Name" box, type in the 12 character "Printer name" you used in step 6. If you want to "password protect" the use of the Display Printer Driver, type in a password in the "Password" box. Only the user with the password can access the "Printer Driver" to send a message to the display.
- 12. RSC Printer Driver set -up complete

(LAN COMMUNICATION

TMC Printer Driver Set-Up

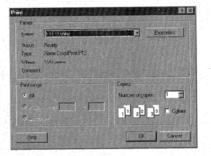
- Click on "Start", "Settings", and "Printer". The "Printers" dialog window will appear.
- 2. Double-click on the "Add Printer" icon. The "Add Printer Wizard" window will appear.
- 3. Click on " Next ". Select "Network printer" and click on "Next " again.
- 4. Select "No" to print from "MS-DOS-based programs". Click on "Browse".
- 5. Double-click on the name of the **RSC** on the network and select the Display Printer Driver created.



- 6. Click on "OK". Now click on "Next".
- 7. Under "**Printer name**", type in the 12 character "**Printer name**" used in Step 6 of the **RSC** Printer driver set-up.
- 8. Select "No" to select the printer as the default printer and click on "Next".
- 9. Click on "**Finish**" to complete the set-up. If prompted for the Windows 95 CD or disk, insert CD or disk into the proper drive and click "OK".
- 10. TMC Printer Driver set -up complete

SENDING A MESSAGE through the LAN

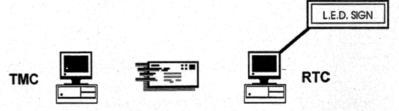
- 1. Start the TruColorll Software program. Create your message.
- 2. Click on " Tor "Send via Network". Input the "Sign ID Number" and "Page Number", Now click on "OK".
- 3. Select the Display Printer Driver from the Printer Name box and click on "OK". Message sent successfully!



(3) INTERNET E-MAIL COMMUNICATION

How it works

The display is first connected to the serial Communication Port of the computer at the remote location which we refer to as the Receive Transmit Computer (RTC). The computer that will be transmitting the e-mail is referred to as the Transmitting Master Computer (TMC). Both the TMC and RTC will have the display control software installed. The user at the TMC will create a message using the provided software and save it. Once the message is saved, the user can start the software program used to send e-mail (such as Microsoft Exchange, outlook, Eudora Pro, Netscape Mail etc) and attach the saved message file to the e-mail message and send it. The recipient at the RTC is then notified that new mail has arrived. The user can then open at attachment and send the message to the sign.



- Begin by installing the software program on the TMC and RTC.
- Configure the sign and software on the RTC.
- TMC instructions
 - Start the software program on the TMC and create a message, Now save it and exit the program.

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- Start the software program used to send e-mail and select to send a new message.
- 3. Type in the "TO" address.
- 4. Now click on the icon that will allow you to attach a file. Select the file you want to be displayed in the sign.
- 5. your e-mail message should look similar to the following:



6. Now send the e-mail message.

- RTC instructions
 - The recipient at the RTC should automatically be notified when new mail has arrived.
 - 2. The recipient should open the message and see that the attached file is for the sign.
 - 3. The recipient can now double-click on the attached file and the program will start.
 - 4. Now just click on the icon on the toolbar to send the message to the sign. Your message is now being displayed.

() QUICK REFERENCE SECTION

Color Code Table

To select a COLOR, press COLOR once,

Letter	Foreground Color	Background Color
Α	RED	BLACK
В	GREEN	BLACK
C	YELLOW	BLACK
D	BLACK `	RED
E	BLACK	GREEN
F	BLACK	YELLOW
G	RED	GREEN
Н	GREEN	RED
	R/Y/G	BLACK
J	RANDOM	BLACK

() QUICK REFERENCE SECTION

Font size table

To select a FONT SIZE, press **FONT** to toggle between the fonts listed below.

Letter	Character Font Size
Α	NORMAL
В	BOLD
С	ITALIC
D	Narrow
E	High
F	Big

European Character Table

To display a EUROPEAN CHARACTER, press the Corresponding Letter, then press the **EUROP-CHAR** key until the European letter of your choice is reached. Once you see the European letter you which to use, press any other letter to continue to type your message.

Letter in Upper "PPER CASE"	Foreground Color
A	ÃÂÁÀÄÅÆ
В	ß
C	Ç
D	Đ
E distribution	ÉÊÈË
	ΙÌΪΪ
N	Ñ
0 ,	ÓÔÒÖÕØ
Р	þ
U	Þ Ú Ù Û Ü
Υ	Ϋ́Ὺ

Letter in Lower "OWER CASE"	Foreground Color	
а	ãâáàäåæ	
C	Ç	
е	éêèë	
i	fiff	
n	ñ	
0	ÓÔÒÖŐØ	
p	b	
u	úùûü	
V	ŸŶ	

() QUICK REFERENCE SECTION

Special effects table

After you complete message editing, you can select the leading and closing effect by and key and confirm by enter key.

Letter	Туре	Effet	Description
Α	L, T	Immediate	Image will be immediately appeared

В	L, T	Xopen	Image will be shown from center and extend to 4 side
C	L, T	Curtain UP	Image will be shown one line by one line from bottom to top
D	L, T	Curtain Down	Image will be shown one line by one line from Top to Bottom
Е	L, T	Scroll Left	Image will be scrolled from Right to Left
F	L, T	Scroll Right	Image will be scrolled from Right to Left
G	L, T	Vopen	Image will be shown from center to top and Bottom one line by one line
H	L, T	Vclose	Image will be shown from Top and Bottom to Center one line by one line $$
100	L, T	Scroll Up	Image will be scroll from Bottom to Top
J	L, T	Scroll Down	Image will be scrolled from Bottom to Top
K	L, T	Hold	Previous Screen will be kept
L	L	Snow	Pixels will be dropped down from top and stack up to build the image
M	L	Twinkle	a blank diagonal line will be scrolling on the image
N	L	Block Move	8 pixel width display block will be moved from right to left one by one
Р	L	Random	Random Pixel will be appeared to build the image
Q	L	Pen writing	Hello World
R	L	Pen writing	Welcome

L = Leading commands - how the text will appear.
T = Closing commands - how the text will disappear.

Display effect

A Normal

B Blinking

C Play song 1

D Play song 2

E Play song 31

Moving speed

A Fast

B Medium 1

C Medium 2

D Slow

Bell duration

A Short

B Medium 1

C Medium 2

D Long

Display time

0.5sec - 25 sec

Date display format

DD/MM/YY

Time display format

hh/mm

? HELP SECTION - IR (Infrared Remote Keyboard) Most Commonly Asked Questions

Can I run multiple pages when the SCHEDULE DISPLAY.

Yes, you can refer "page 8-adding schedule setting.

HOW CAN I CONTROL MORE THAN ONE SIGN FROM A CENTRAL LOCATION? Set the different ID address. software will allow you to control up to 255 signs by setting.

How do I remove the demo message on the sign?

The demo message is permanently programmed onto the sign and is designed to run automatically when there are no messages programmed by the user. When you program a message onto a page, the demo message will no longer show.

How much text can I program onto each PAGE?

You can program up to 250 characters per page. there 26 pages text message and 16 pages graphic can be programmed.

Will I lose my messages if I remove the power to the sign?

No, there is a built-in battery in the sign.

After I unplug my sign, I lose the current TIME and DATE setting. Why?

The battery on the cpu board is gone. you should replace with same battery. The battery normally can keep 2 years.

How do I display lower-case letters?

Please refer to page 5 **SHIFT** key function.

I plugged the sign in but nothing comes ON?

Unplug the power to the sign and plug it in again.

Make sure the power adaptor plug is plugged into the sign and AC connect firmly. Try using another wall outlet. Refer page 8 resetting system using the **FUNCT** key.

Most Commonly Asked Questions

How do I turn my sign OFF and ON automatically everyday.

Please refer page 15 under the function control display by schedule.

Trouble Shooting

My sign does not show after setting schedule display.

Clear the schedule display and reset the system.

Refer page 15 restting system using the **DELECT** all.

? HELP SECTION - SOFTWARE Troubleshooting

Use the checklist below to verify your settings.

The software is not communicating w	ith	ı th	е	si	ig	n	?
-------------------------------------	-----	------	---	----	----	---	---

	I have found the ID setting of the sign and entered
	them into the software. Page 15.
	I am using the cable supplied by. Page 13.
NOTE: The	e cable may not be extended with any other cable. The cable must be
one com	plete cable from the 9-Pin connector to the sign

"OPEN COM ERROR".

If the error message is "OPEN COM ERROR", this means the Com Port you have selected is not available for your use or is being used by an internal device in your computer. A computer normally has 4 COM PORTS. Two external ports which are available to connect external devices to the computer and two Internal ports which are available, in most cases, for computer use only. Please check the back of your computer to see if it is labeled COM1 or COM2. If not, please refer to your computer user's manual or contact the computer manufacture for more information.

My laptop does not have any Com Ports and only has support for USB devices.

Some newer laptops do not have Com Ports and only support USB devices (please reference your Laptop User's Manual to verify this). For this situation you will need to purchase a **USB Serial Adapter** directly from or from your local computer store. This device will convert one of your Available USB ports to a working Com Port does not guarantee that this device will work with all laptops due to other devices installed by user and varying manufacturers equipment. Please contact the manufacturers support center directly for questions regarding installation operation.