

Messaging Software

User Manual

FOR

PC & REMOTE OPERATIONS

(REV

Note: Sep 1, 2007

This manual is applied to the model of M500N-7X80RG2 only.

Note: Specifications are subject to change without notice

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1: General Information

You can operate the sign in two ways:

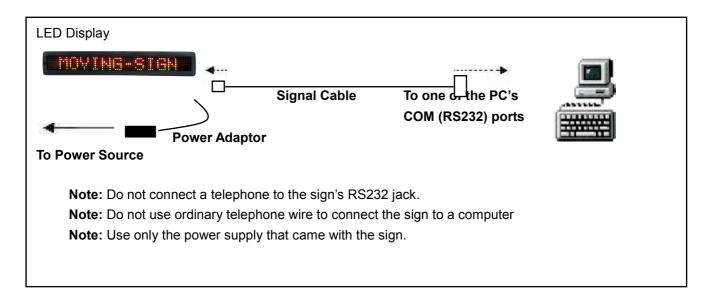
- By using a hand-held remote control
- By using personal computer

1.1: Using a remote control to operate your sign

A remote control is a hand-held keyboard used to operate the sign. This manual shows you how to program messages on your sign using a remote control.

1.2: Using a computer to operate your sign

To do this, you'll need special connectors and computer software as following shown:



1.3: Attaching your sign to a surface

Your sign can be mounted to a wall.

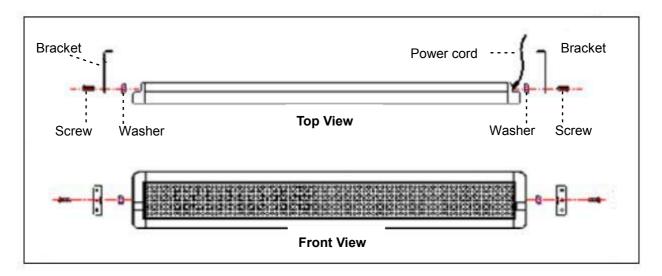
Note: This sign is intended for indoor use only.

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

Wall mount

- 1. Attach the mounting brackets to the wall or surface.
- 2. Attach the sign to mounting brackets using hardware as shown below.
- 3. Plug the power cord into the sign and into an outlet.



2: Basic Sign Operation

2.1: Turning a sign on and off

When you plug in the sign's power supply, the sign starts up automatically. On the other hands, in order to turn the sign off, you can unplug the power supply or use the remote control.

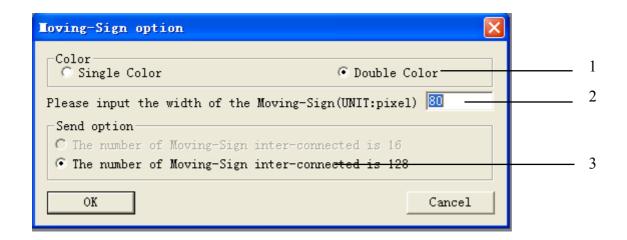
2.2: System requirement

The computer must be Pentium 200 or above, 32M memories, 2M or above display memory, 100M empty hard disk. The computer must be installed window 95 or above version. The display mode is designed for 800x600, 16-bit or 24-bit colors.

2.3: Software operation

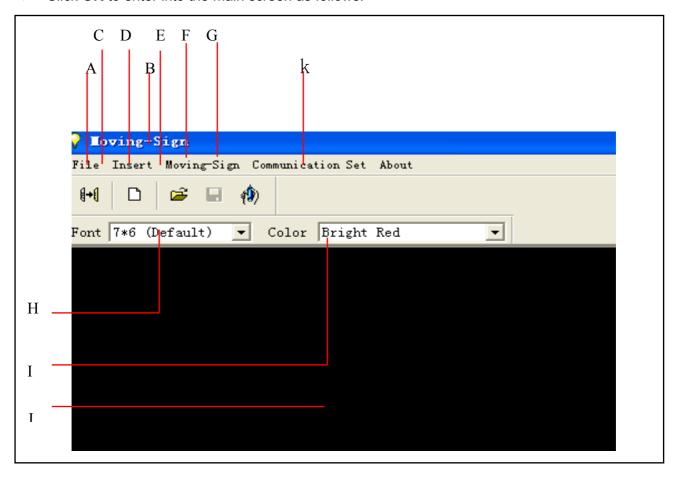
Messaging Software allows you to send messages to your sign using a computer. Please follow the steps to activate your software:

- ▶ Turn on your computer and start Windows 98/2000.
- Insert the software CD disk into Drive CD ROM, or you can copy the software into your PC for the easy operation.
- ▶ Double click the 😯 icon to activate the programming software, this is what should appear on your computer screen:



	Name	Description
1	Color	If your sign is tricolor (Red, Green & Amber), please select Double Color. Otherwise, please select single color.
2	Text Size /pixel	The length of message sign, unit in pixel. The default setting is 80
3	Send option	For new models, select the second choice for the operations

Click **OK** to enter into the main screen as follows:



Overview of screen layout

Letter	Name	Sub-menu	Description	
		Clear	Clear all the contents in text edit area	
Α	File	Open	Open the old files (*.sdv)	
		Save	Save the file of the current text edit area for later using	
		Save as	Save the file of the current text edit area as a new file	
		Exit	Exit the messaging software	
		Send	 Send Edit Area's Content: Update the sign with the new messages in the text edit area Send Disk File: Update the sign with stored *.sdv file 	
		Execution	Create custom 7x80 (height x width) pixels graphics	
В	Moving	lattice	Note: up to 8 custom graphics can be created by users	
	Sign	Special	Allow you to schedule, to on/off, to alarm, to adjust time of your	
		function	sign automatically	
		Moving_Sign option	Models' selection	
Test Send a testing signal to		Test	Send a testing signal to the sign	

С	Send	Update the sign with the new messages in the text edit area	
D	New	Clear all the contents in the text edit area	
Е	Open	Open an old file (*.sdv)	
F	Save	Save the file of the current text edit area (*.sdv) for later using	
G	Graphic edit	Create custom 7x80 (height x width) pixels graphics Note: up to 8 custom graphics can be created	
Н	Font	7 different kind of fonts	
I	Color	16 different kind of color combinations	
J	Text edit area	Type messages here	
K	Communication Set	条屏的附加功能,用于远程(TCP/IP)协议发送及 Modem 发送的场合	

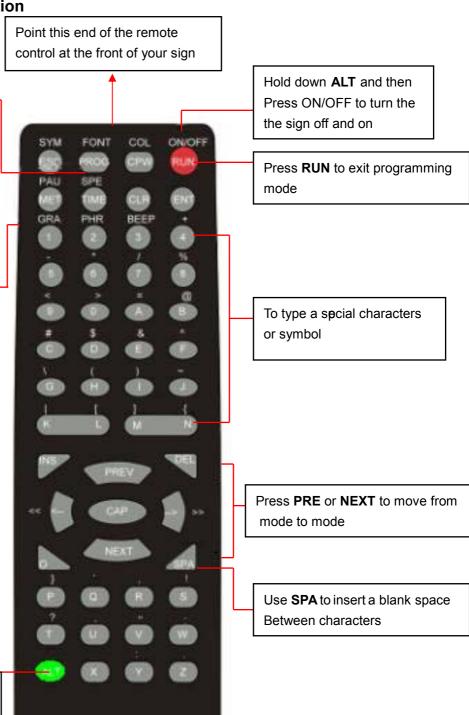
2.4: Remote control operation

- Press PROG to enter into text editing mode
- Type in your password (default ="000"), then press ENTER
- Type in: "OPEN: 01", then press **ENTER**
- ... Start programming

In text editing mode:

Hold down **ALT** and then press **GRA** to put the sign into one of These modes (Use **PREV** or **ne-XT** to mode and **ENT** to select a mode.)

- **GET GRAPH** for getting GRAPH A P
- MAKE GRAPH –for making NUMBER A -H
- EDIT GRAPH for editing NUMBER A-P



Hold down **ALT** and then press any key to select character or symbol above selected key

Item	Key	Description			
1	ONOFE	Power On / Off. If the	re is no file in 01 to 99 , it willrun file 00 .		
1	ON/OFF		99, it will display the last saved file.		
2	PROG	Enter the Edit Program Mode. Select 01 to 99 to enter message.			
		Use for edit or reset password			
		Use PREV and NEXT to select (a) to (d)			
		(a) UNUSE PASS	Turn off password security.		
3	CPW	(b) USE PASS	Turn on password security.		
		(c) RES PASS	Reset to factory default password" 000 ".		
		(d) CHANGE PASS	Change to new password (see Appendix E)		
4	MET		modes, totally up to 24 different modes		
			nd NEXT to select (1) to (24) methods. See Appendix A.		
5	PREV	Select option backwa			
6	NEXT	Select option forward	L		
7	CAP	Toggle between Capi	tal letter and lower case character.		
8	TIME	To select time option.	See Appendix B.		
9	SPE	Select the display speed	d of the message.(use PREV and NEXT to select different speeds.)		
10	FONT	Select the font size of	f the display message. use PREV and NEXT to select		
		different font siz	es.)		
11	COL		e display message.(use PREV and NEXT to select different		
		Colors of the display i	message.)		
12	SYM	Select 30 built-in sym	abols. (Use PREV and NEXT to select different symbols.)		
13	CLR	Erase option.			
		Select graphic option	.(Use PREV and NEXT to select the following options:)		
		(a) GET GRAPH	Place the graphic in the message. Use PREV and NEXT . to Select GRAPHA to GRAPHP .		
		(b) MAKE GRAPH	Create new graphics in location NUMBER A to Number H.		
		(c) EDIT GRAPH	edit GRAPH A to GRAPH P and store in one of the location		
		(0) ====================================	of NUMBER A to Number H.		
		Note: Please refer to	28. Cursor directo n pointer to make or edit graphic.		
15		Moving the message	and command to the right.		
		Moving the message	and command to the left.		
		Note:			
			ERT MESSAGE OR COMMAND IN THE EDIT PROGRAM MORE,		
		PLEASE USE ABOVE KEYS TO MOVE THAT MESSAGE OR COMMAND TO			
16	\Longrightarrow	LEFT-MOST POSITION AND PRESS DEL .			
		IF YOU WANT TO INSERT MESSAGE OR COMMAND IN THE EDIT PROGRAM MODE			
		PLEASE USE ABOVE KEYS TO MOVE THAT MESSAGE OR COMMAND TO THE			
		LEFT-MOST POSITION	LEFT-MOST POSITION AND (1) PRESS INS TO INSERT. (2) TYPEIN YOUR MESSAGE		
		OR PRESS COMMAN	D KEY,IT WILL INSERT AUTOMMATICALLY . (3) PRESS INS		
		AGAIN TO OVERWRIT	E.		
17	ALT	Use the alternative sy	ymbol in the keyboard.		

18	PAU	Generate a pause within the programmed message.(Use PREV and NEXT to select PAUSE 1 to PAUSE 8)	
19	PHR Select a programmed animation in the message .PREV and NEXT to select 1 to ANIM 8		
20	BEEP	Select beep sound in the message.(Use PREV and NEXT to select BEEP 1 to BEEP 3.)	
21	ENT	Accept the selected option.	
22	ESC	Return to the upper manual in the edit program mode.	
23	INS	Refer to 15 and 16	
24	DEL Refer to 15 and 16		
25	SPA Insert space in message.		
26	(1) In edit program mode, press RUN to save and run the current message. (2) In display mode, press RUN and enter 01 to 99 to select other message display.		
27	S	Programming a sequence file. Please refer to Section 3.5: Programming a sequence file.	
28	F G H J K L N O P	Cursor direction pointer. K toggles cursor on /off NOTE: the direction pointer only works in graphic edit mode.	

3: Beginning Messaging

3.1: Example 1- A simple message in seven easy steps

The sign can store up to 100 messages in numbered data files. These files are numbered from **00** to **99**. File 00 is a default message and for read only.

A Simple Programming Example -

Note:

Underline denotes words or numbers to type, xxxx denotes key names. To correct a mistake, press the **DEL** key to remove t.

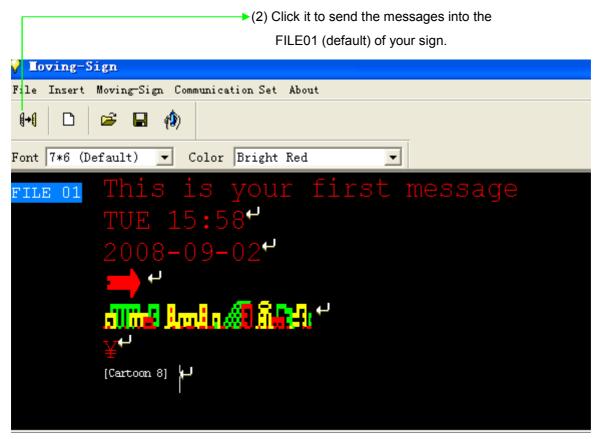
User can toggle the capital letter and small letter by pressing the key **CAP**, and use the **ALT** key to display symbol on kep ad. Default Password: "**000**"

Step	Keys to press	Explanation	Display
1.	PROG	Begin the edit program mode	PASSWORD:***
2.	000	Default Password "000"	PASSWORD:***
3.	ENT	Enter into editing mode	OPEN: ??
4.	01 ENT	The first two digit file number (01-99) are allowed for naming message files [CYC-LIC] is the default method of display code which mean- s to cycle through at random	[CYCLIC]
5.	WELCOME VISITORS	Type the text you wish to display in you message	WELCOME VISITORS

6.	RUN	End the edit program mode	SAVE? (Y/N)
7.	Υ	Save the message as data file number 01	Message begins to be displayed

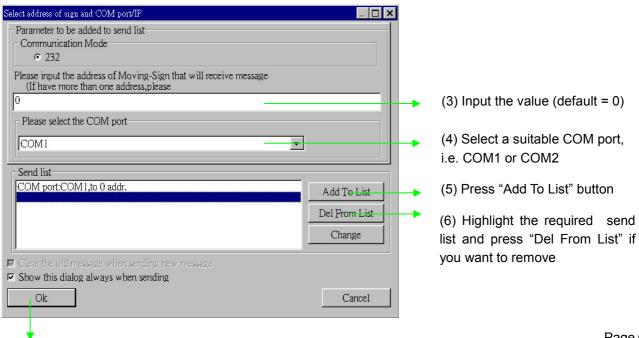
3.2: Example 2- Insert text, time, date, symbol, graphic, character or carton

3.2.1: Software operation



(1) Insert text by typing and Right click the mouse to add time, date, symbol, graphic, character and carton espectively.

Note: The default front and color are 7X 6 and Bright Red, respectively-



(7) Click OK to start the transmission. The sign will display the new message automatically once finished transmission.

Note: The display mode is **Cyclic** in the example

Note: If the display message is longer than one page of LED screen whatever the

display method used, the display method will be [OPEN ◀-]

3.2.2: Remote Control Operation

Step	Keys to press	Explanation	Display
1	PROG	Begin the edit program mode	PASSWORD:***
2	000	Default Password "000"	PASSWORD:***
3	ENT	Enter into editing mode	OPEN: ??
4	01 ENT	The first two digit file number(01-99) are allowed for naming message files [CY-CLIC] is the default method of display code which means to cycle through at random	[CYCLIC]
5	CPW ENT	To disable password function **Note: Suppose the password function was disabled in the rest of this manual.	[UNUSE PASS]
6	This is your first Message.	Type the text you wish to display in your message	This is your first message
7	TIME	Enter into time function mode	SET TIME
8	PREV PREV PREV ENT	Insert time to display your message	ADD TIME
9	Time	Enter into time function mode	SET TIME
10	PREV PREV PREV ENT	Insert date to display your message	ADDDATE
11	SYM	Enter into symbol mode	[-><-]
12	PREVor NEXT	Specified symbol is selected	[->]
13	GRA	Enter into graphic function mode	GET GRAPH
14	PREVor NEXT	Specified graphic is selected	[GRPAH A]
15	\$	Enter into character function mode	[\$]
16	PREVor NEXT	Specified character is selected	[¥]
17	PHR	Enter into cartoon function mode	[ANIM 1]
18	PREVor NEXT	Specified cartoon is selected	[ANIM 8]
19	RUN	End the edit program mode	SAVE? (Y/N)
20	Y	Save the message as data file number 01	Message begins to be displayed

Here are some important things that you learned from this first example:

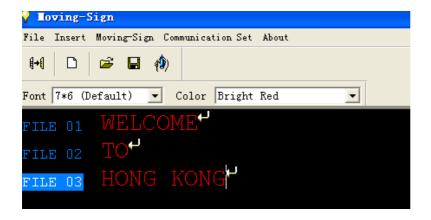
- ▶ An audible beep is heard when the unit accepts programming input from the remote. This can assure you that the signal from remote has been received and understood.
- ▶ The default color for messages is Bright Red and the default font size is 7*6.
- You have the option to save your message at the end of your programming.
- The sign always begins with the default method of display as **[CYCLIC]**, which stands for cycle through all color and method possibilities at random.

In order to use international characters in your messages, you should first key in the corresponding equivalent English character and then use the **NEXT** and **PREV**. buttons to scroll through the international characters, i. e. (Key in "\$" znd press the **NEXT** button you will see the "¢" character appears). For the international characters which do not have corresponding English character, please key in a **SPACE** and then use the **NEXT** and **PREV** buttons to scroll through the list of available characters. See Appendix D for the more information.

3.3: Example 3- Create / Delete messages into different file names

You can create/delete messages into different FILE No. by using keyboard or hand-held remote control.

3.3.1: Software operation



- To create different file names such as FILE 02, FILE 03 and so on, you can press CTRL + ENTER key.
 - * Note: totally, users can create files from 01 to 99.
- If you make mistakes while typing, you can correct them by pressing **DEL** key until you have removed the mistake(s) and re-entered in the message properly.

3.3.2: Remote Control Operation

To create and edit message used by remote control, you should follow the below steps. If there is a previously stored message under that file number, the display will show **[OLDFIL] [CYCLIC]**, or may not be **[CYCLIC]** depending on actual content.

Step	Keys to press	Explanation	Display	
1.	PROG	Begin the edit program mode	OPEN : ??	
2.	01 ENT	This is the file number for the previously stored mesage file.	OLDFIL [CYCLIC]	
You th	You then can edit or create new message			
3.	B. RUN End the edit program mode SAVE ? (Y/N)		SAVE ? (Y/N)	
4.	Υ	There is a need to re-save the data file	Message begins to be displayed	

may not be [CYCLIC] depending on actual content.

In some circumstance, user may like to erase some of the message; the sign has such an option for user to do so. After enter the Edit Mode, user can press the key and cycling through the difference functions by pressing the **PREV** or **NEXT** key.

Listed below is the Erae functions and their usages:

DEL ALLDEL FILE ??Clear all message filesDelete the specified file

DEL MSG Delete the message of the current opening file
 DEL ON/OFF Disable the Auto Turn on /Turn off timer function

- DEL ALARM Disable the alarm function

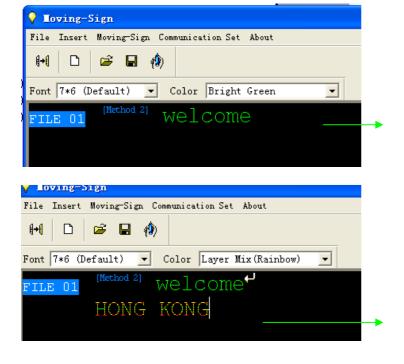
3.4: Example 4- Adjustment of methods, fonts and colors

Method: Type of moving options which are displayed on a sign, see Appendix A.

Fonts: Style of fonts which are displayed on a sign, see Appendix A too.

Colors: Your sign can display up to 16 different colors, e.g. Red, Green, Yellow, etc. – plus 8 special color combinations. To determine what colors are available on your sign, see Appendix B.

3.4.1: Software operation



- (1). Right click the mouse
- (2). Select Insert Moving method
- (3). Select Immediate (it turns off Cyclic)
- (4). Select Font = 5*6 Short& Color=Green.
- (5). Type in "WELCOME"
- (6). Select Font=7*6 & Color Rainbow Note: It turns on Cyclic again
- (7). Type in "HONG KONG"

3.4.2: Remote Control Operation

User can make method, font or color adjustment of the message. After enter the Edit Mode as 3.2.2, user should firstly press or key so as to enter into method, font or color mode adjustment. After that , by pressing the **PREV** or **NEXT** key, a specified font or color can chosen to display at the message.

Step	Keys to press	Explanation	Display
1.	PROG	Begin the edit program mode	OPEN : ??
2.	01 ENT	This is the file number to assign to this new message file.	[CYCLIC]
3.	MET PREV OF NEXT	Assign the method of display to an Immediate	[IMMED]
4.	PREV or NEXT	Assign the color Green	[GRE]
5.	FONT PREV or NEXT	Assign the font = 5*6 Short	[5x6]
6.	WELCOME	Enters in message text	WELCOME
7.	RUN	Exit out of edit message mode	SAVE ? (Y/N)
8.	Y	Save the data file as 01	Message begins to be displayed.

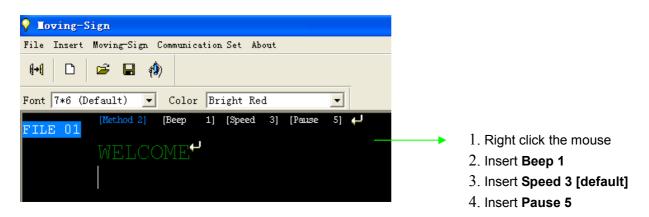
3.5: Example 5- Insert beep, speed or pause

Beep: Type of beep sound can be chosen during displaying on a sign.

Speed: Messages can be speeded up or slowed down. It is available for your sign, see Appendix A.

Pause: Generate a pause within the programmed message, see Appendix A too.

3.5.1: Software operation



3.5.2: Remote Control Operation

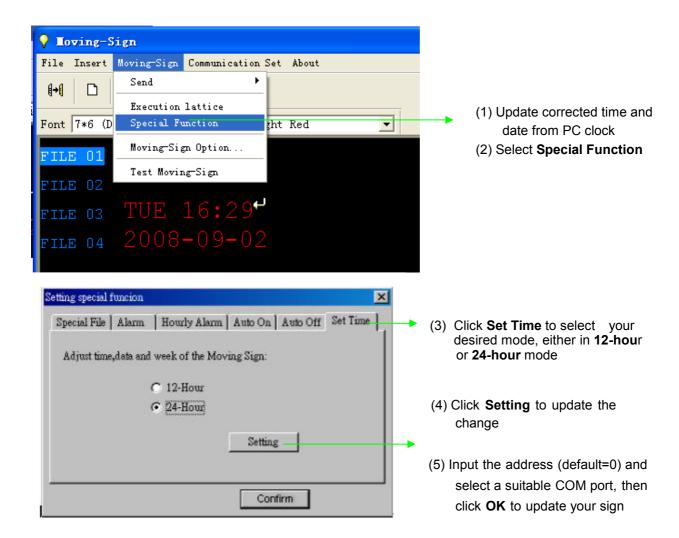
User can insert beep, speed or pause of the message used by hand-held remote control.

Step	Keys to press	Explanation	Display
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1.	PROG	Begin the edit program mode	OPEN : ??
2.	01 ENT	Message file	[CYCLIC]
3.	BEEP PREV or NEXT	Assign type of beep	[BEEP 1]
4.	SPE PREV or NEXT	Assign type of beef	[SPEED 3]
5.	PAU PREV or NEXT	Assign type of pause	[PAUSE 5]
6.	WELCOME	Enter message text	WELCOME
7.	RUN	Exit edit message mode	SAVE ? (Y/N)
8.	Y	Save the data file as 01	Message begins to be displayed.

4: Advanced Messaging

- 4.1: Example 6- Setting time or date
- 4.1.1: Software operation



4.1.2: Remote control operation

User can set time or date of the message used by hand-held remote control.

Step	Keys to press	Explanation	Display
1.	PROG	Begin the edit program mode	OPEN: ??
2.	01 ENT	This is the file number to assign to this new message file	[CYCLIC]
3.	Time	Enter into time function mode	SET TIME
4.	ENT	Display current time	[00:00:00]
5.	 or →	Choose option of hour, minute or second	[::]
6.	PREV or NEXT	Modify hour, minute or second	[::]
7.	ENT	Confirm new time setting	[13:25:02]
8.	Time NEXT	Enter into date function mode	SET DATE
9.	ENT	Display current date	[SA 17 - 05 - 01]
10.	 or →	Choose option of year, month or day	[xx xx - xx - xx]
11.	PREV or NEXT	Modify year, month or day	[xx xx - xx - xx]
12.	ENT	Confirm new date setting	[TH 02 – 09 – 04]
13.	RUN	End the edit program mode	SAVE? (Y/N)
14.	Y	Save the message as data file number 01	Message begins to be displayed

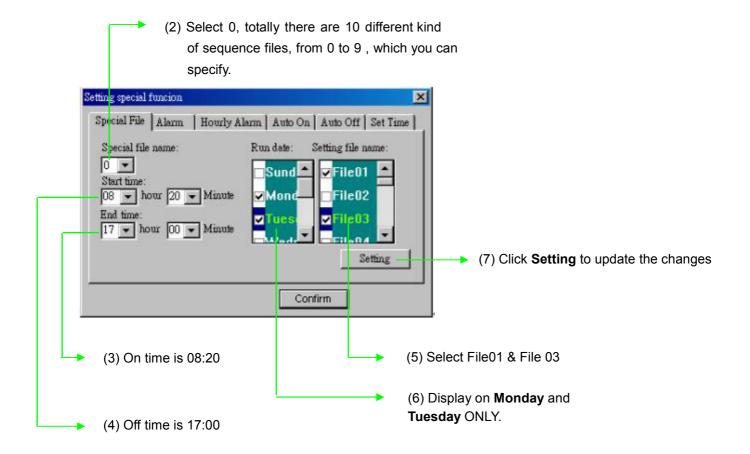
4.2: Example 7- Programming filename messages in sequence

4.2.1: Software operation

In this example, it leverages the power of sequencing to achieve desired results. We'll display messages by their files' names (FILE01, FILE03) in certain order, and disappear at times you specified.

▶ Note: Displaying messages in time order will work only as long as the sign has power. When your sign loses power, its internal clock becomes inaccurate and must be reset again. (See 4.1.1)





4.2.2: Remote control operation

Sequence files have special names that begin with the letter "S" followed by a single digit number (S0-S9). As such, there are only ten sequence files, which can be stored and retrieved by the sign. Let's say that as the owner of a restaurant named Box Car Express. You have daily specials that appeal to the lunch crowd at noon. You have already created the following files:

File Number	Message
10	Welcome me to the Box Car
. •	Express
11	Today's special is
12	2-Pc.Chicken Meal with
13	Mashed Potatoes and Gravy
14	Our drink Special is
14	Diet coke

You may want to display the above messages from 10:00 am to 1:00 pm, Monday to Friday. In order to display the entire message, your sequence file would contain the line:

10 11 12 13 14

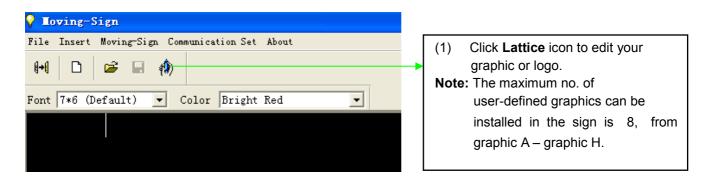
Step	Keys to press	Explanation	Display
1.	PROG	Begin the edit message mode	OPEN : ??
2.	S	For sequential file	[80]
3.	1 ENT	Enter sequential file number	DAY 0 1 2 3 4 5 6
4.	-	Move right	1 high lighted
5.	NEXT or PREV	Toggle for ON/OFF	1 in green with red background
6.		Repeat step 4&5 for 2、3、4、5 until all	
		1、2、3、4、5 green color	
7.	<u>s</u>	Set start time	START 00:00
8.	NEXT or PREV	Change the start timer	The digit in green will be changed
9.	← or →	Use the arrow key for proper digit	
10.		Repeat steps 8&9 until display shown	
		10:00	
11.	<u>s</u>	Set stop time	END 23:59
12.		Repeat steps 8&9 until display shown	
		13:00	
13.	ENT	Confirm the time setting	S1
14.	10 11 12 1314	This is the sequence of file numbers to	
	15 11 1 2 1512	display, separated by a space.	
15.	RUN	Exit the edit program mode	SAVE ? (Y/N)
16.	Y	Save the sequence file as S1	Message begins to be displayed

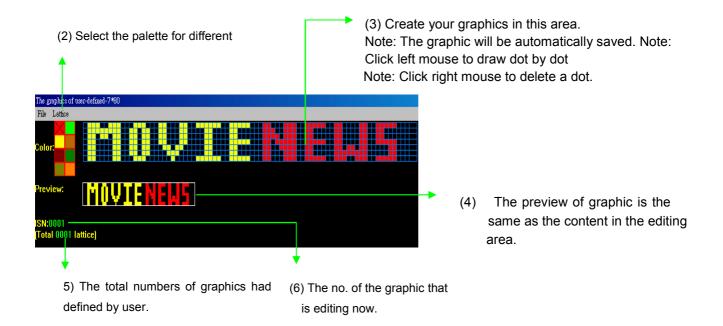
The real advantage of sequencing files is the ability to change only one segment of a long message! If you decide to change the meal special but not the drink special, you need only edit file number 12 In essence, sequencing saves your time from having to edit long messages when only minor changes are needed.

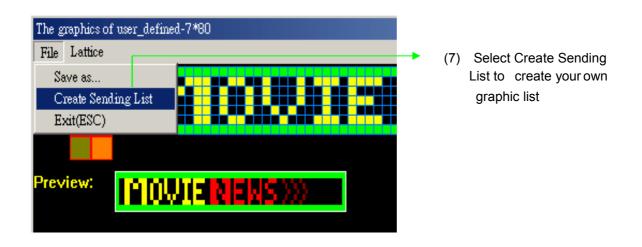
Please be remained that once there is any sequence file and the time setting is valid, the sign will display the preset message starts from sequence file S0 through S9.

4.3: Example 8- Creating your own custom graphics & logo

4.3.1: Software operation

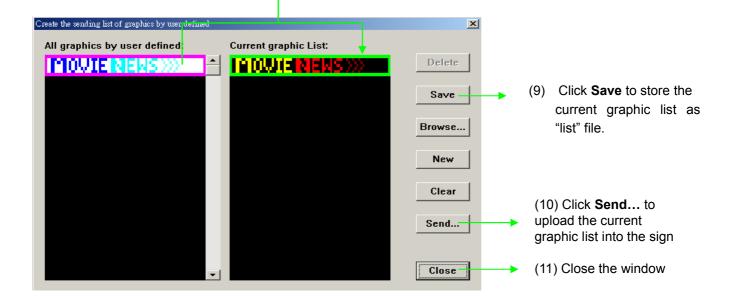






(8) Double click the graphic to add into the current graphic list

Note: The maximum no. of user-defined graphics can be installed in the sign is 8, from Graphic A- Graphic H.



Overview of screen layout

Name	Sub-menu	Description
	Save as	Save as another ISN number
File	Create Sending List	 Save all the custom graphics as a "lst" file. (Note: the maximum no. of user-defined graphics is 8) Send the graphic list into the sign. (Note: the maximum no. of user-defined graphics can be installed into the sign is 8, from Graphic A- Graphic H)
	Exit	Close the graphic editing window
	Create a new lattice	Create another graphic
Lattice	Editing old lattice	Open an old lattice for the editing
	Clear current lattice	Clear the current graphic

4.3.2: Remote control operation

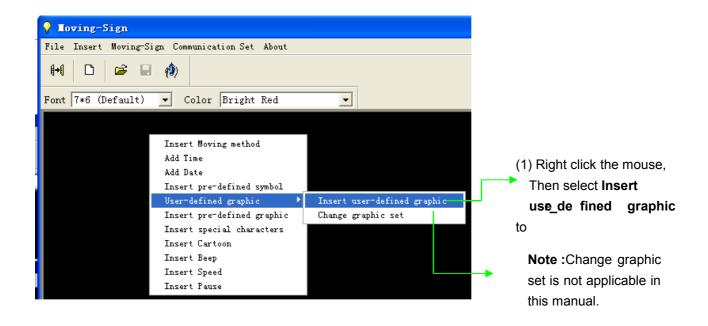
User can make his own graphic by hand-held remote. Press key **GRA** to choose the appropriate option and after select specified memory location you want, the display will show the user defined graphic (when enter the **EDIT GRAPH** function), or show a blank display only with a dot of cursor (when enter the **MAKE GRAPH** function). To edit the graph, user can press key **G**, **H**, **L**, **P**, **O**, **N**, **J**, **F** to move the cursor onto specified arrows directions, i.e. N, NE, E, SE, S, SW, W, NW respectively.

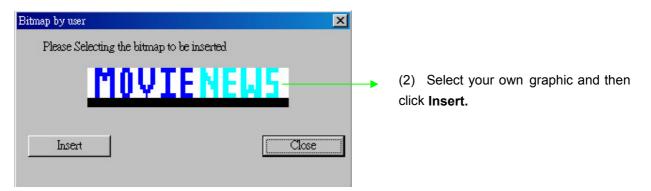


- **PREV** or **NEXT** key: Change the LED dot color continuously.
- key: If user wants to draw a line, he can press the key and makes a line through the cursor position. To turn off the draw line function by press **K** key again.

4.4: Example 9- Displaying your own custom graphics & logo

4.4.1: Software operation





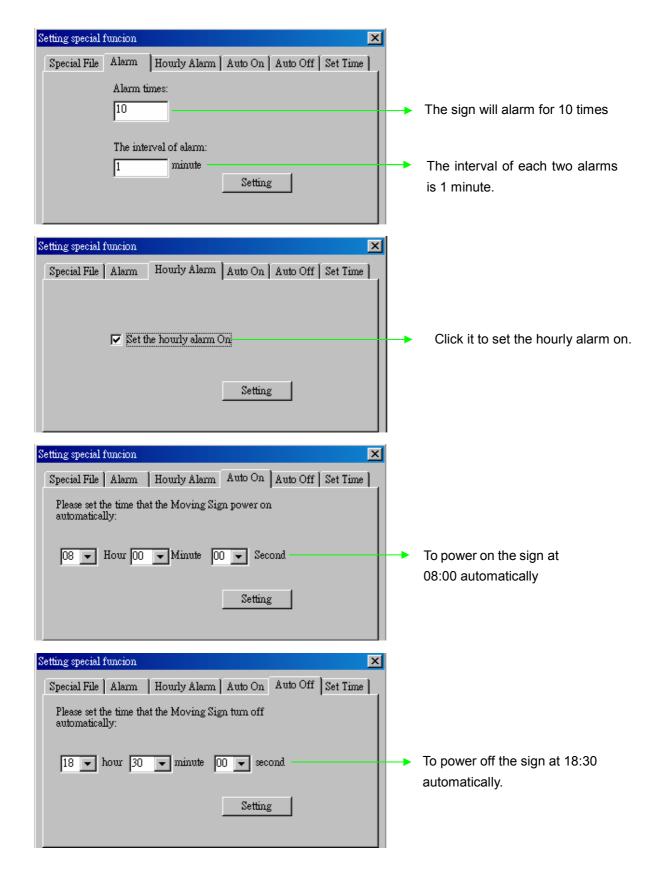


4.4.2: Remote control operation

In order to get a graphic for displaying between any messages, user should firstly enter the Edit mode at the desired location, press **GRA** and cycle through the functions and press **ENT** when the display shown **GET GRAPH**. All preset graphics will cycle through with the key **PREV** or **NEXT** pressed. Press **ENT** for the right one.

5: Other Timer Options

5.1: Software operation



Note that: You may only set the timer functions while running your message sign.

5.2: Remote control operation

To select the timer function while in edit mode at the end of a message is fine, press the **TIME** key.

Press the **NEXT** and **PREV** keys to cycle through the timer functions and press the **ENT** key to make your selection

Function	Description
SET TIME	Adjust the Real Time Clock
SET DATE	Adjust the Date
ALARM	Set alarm times and interval
HOUR ALARM	Set the hourly alarm On/Off
12H MODE	If selected, the time will be displayed in 12-hour format
12H MODE	(Note: while programming, always enter the time in 24-hour format)
24H MODE	If selected, the time will be displayed in 24-hour format
ADD TIME	Add a time display screen in the data file
ADD DATE	Add a date display screen in the data file
OFF TIME	Tums off at the programmed time of day
ON TIME	Tums on at the programmed time of day

Additional Tips On Alarm Setting-

When you select the Alarm option, the sign will indicate C: XXXM: XXX.

Where XXX is a number from 000 to 255.

C is the total times of the alarm to be activated, and **M** is the time interval between two activations.

Example-

C: 123M: 001 - this means that there will be 123 times of alarm signal, and the time interval between each alarm signals will be 1 minute.

Note that: You may only set the timer functions while running your message sign.

Function Code	Definition	Possibilities	Control
		Cyclic	[CYCLIC]
		Immediate	[IMMED]
		Open from Right	[OPEN←]
		Open from Left	[OPEN→]
		Open from center	[OPEN<>]
		Open to Center	[OPEN><]
		Cover from Center	[COVER<>]
		Cover from Right	[COVER←]
		Cover to Left	[COVER→]
		Cover to Center	[COVER><]
		Scroll Up	[SCROLL↑]
		Scroll Down	[SCROLL]]
		Interlace to Center	[INTER><]
METHOD	Display Option	Interlace Cover	[INCOVER><]

Cover Down CCOVERT			•	100) (50.1
Scan Line			Cover Up	[COVER↑]
Explode				
Pac Man				
Fall & Stack FALL Shoot				
Shoot SHOOT Flash FLASH Random RANDOM RANDOM RANDOM Slide in Auto (Note: It is appeared in window software only, but not available in remote control.) AUTO AUTO			Pac Man	[PACMAN]
Flash FLASH Random RANDOM Slide in SLIDE IN Auto (Note: Its appeared in window software only, but not available in remote control.)			Fall & Stack	[FALL]
Random RANDOM Slide in Slide in Slide in Auto (Note: It is appeared in window software only, but not available in remote control.)			Shoot	[SHOOT]
Silde in Auto (Note: Its appeared in window software only, but not available in remote control.)			Flash	[FLASH]
Silde in Auto (Note: Its appeared in window software only, but not available in remote control.)			Random	
Auto (Note: It is appeared in window software only, but not available in remote control.)				
Alters the color of text See Appendix B				[0
Alters the color of text See Appendix B				INLITOI
Alters the color of text			•	[A010]
FONT Changes the shape and size of characters Changes the shape and size of characters Changes the shape and size of characters Change the shape and size of characters Tx9	COLOR	Alters the color of text	,	<u> </u>
FONT Changes the shape and size of characters Changes the shape and size of characters Changes the shape and size of characters Change the scrolling speed of the display SPEED Change the scrolling speed of the display Speed 1 (Fastest) Speed 2 (SPEED 2) Speed 3 (SPEED 4) Speed 6 (SPEED 4) Speed 6 (SPEED 6) Speed 7 (SPEED 7) Speed 8 (Slowest) SpeeD 7 (SPEED 7) Speed 8 (Slowest) SpeeD 1 (GRAPH B) GRAPH B) GRAPH B) GRAPH B) GRAPH B) GRAPH B) GRAPH C) GRAPH G) GRAP	OCLOIN	7 HEOLO THO COLOT OF TOXE	• •	[Eve]
Changes the shape and size of characters				
Changes the shape and size of characters			5×11 Short & Wide	
Of characters		Changes the shape and size	7×6 (Default)	[7×6]
Phrase Pause Pau	FONT	,	7×11 Wide	[7×11]
Pause Paus		of characters		
Small Fonts Small				
Speed 1 (Fastest) SpeeD 1 SpeeD 2 SpeeD 2 SpeeD 3 SpeeD 3 SpeeD 3 SpeeD 3 SpeeD 3 SpeeD 3 SpeeD 4 SpeeD 4 SpeeD 4 SpeeD 4 SpeeD 5 SpeeD 5 SpeeD 6 SpeeD 6 SpeeD 7 SpeeD 7 SpeeD 8 SpeeD 7 SpeeD 8 Spee				
Speed 2 Speed 3 Speed 3 Speed 3 Speed 3 Speed 4 Speed 4 Speed 5 Speed 5 Speed 6 Speed 6 Speed 6 Speed 6 Speed 6 Speed 7 Speed 7 Speed 8 (Slowest) Speed 8 (Speed 7 Speed 8 (Speed 8 Speed 8 Speed 8 Speed 8 Speed 9 Speed				
SPEED Change the scrolling speed of the display Speed 4 SPEED 4			,	
Change the scrolling speed of the display			•	
Speed 5 SPEED 5				
### Table 1	SPEED	Change the scrolling speed of	•	
Speed 7 SPEED 7	SFLLD	the display	•	
Speed 8 (Slowest) SPEED 8 GRAPH A GRAPH B GRAPH B GRAPH C GRAPH C GRAPH C GRAPH B GRAPH C GRAPH B GRAPH B GRAPH C GRAPH B GRAP		and display	•	
Editable by user				
Editable by user			Speed 8 (Slowest)	[SPEED 8]
Editable by user	GRAPHICS			[GRAPH A]
Editable by user				[GRAPH B]
Editable by user				[GRAPH C]
Editable by user				
City GRAPH F GRAPH H Car GRAPH J Vessel GRAPH K Tel GRAPH L Nation GRAPH M Ship GRAPH N Swim GRAPH O Cat GRAPH O Cat GRAPH O Cat GRAPH O Cat GRAPH P MERRY X'MAS [ANIM 1] HAPPY NEW YEAR [ANIM 2] 4 ^{1th} JULY [ANIM 3] HAPPY EASTER [ANIM 4] HAPPY EASTER [ANIM 4] HAPPY HALLOWEEN [ANIM 5] DON'T DRINK & DRIVE [ANIM 6] NO SMOKING [ANIM 7] WELCOME [ANIM 8] Pauses for 2 second delay PAUSE 1] Pauses for 3 second delay PAUSE 1] Pauses for 4 second delay PAUSE 3] Pauses for 6 second delay PAUSE 4] Pauses for 10 second delay PAUSE 6] Pauses for 20 second delay PAUSE 6] Pauses for 20 second delay PAUSE 6] Pauses for 20 second delay PAUSE 6] Pauses for 30 second delay PAUSE 7]		Editable by user		
City				
Non-editable by user				
Non-editable by user				
Non-editable by user			City	
Non-editable by user Vessel [GRAPH K] Tel [GRAPH L] Nation [GRAPH M] Ship [GRAPH N] Swim [GRAPH O] Cat [GRAPH P] MERRY X'MAS [ANIM 1] HAPPY NEW YEAR [ANIM 2] 4 TH JULY [ANIM 3] HAPPY HALLOWEEN [ANIM 4] HAPPY HALLOWEEN [ANIM 5] DON'T DRINK & DRIVE [ANIM 6] NO SMOKING [ANIM 7] WELCOME [ANIM 8] Pauses for 2 second delay [PAUSE 1] Pauses for 3 second delay [PAUSE 2] Pauses for 4 second delay [PAUSE 3] Pauses for 6 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]				
Non-editable by user				
Non-editable by user				
PAUSE Generate an animated pre-programmed display Pauses for 2 second delay Pause for 10 second delay Pause for 20 second delay Pause for 30 second delay Pa		Non-editable by user		
Swim [GRAPH 0] Cat [GRAPH P] MERRY X'MAS [ANIM 1] HAPPY NEW YEAR [ANIM 2] 4 ^{1H} JULY [ANIM 3] HAPPY EASTER [ANIM 4] HAPPY HALLOWEEN [ANIM 5] DON'T DRINK & DRIVE [ANIM 6] NO SMOKING [ANIM 7] WELCOME [ANIM 8] Pauses for 2 second delay [PAUSE 1] Pauses for 3 second delay [PAUSE 2] Pauses for 4 second delay [PAUSE 3] Pauses for 6 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]		. 13.1 34.143.15 57 4301		
PHRASE Generate an animated HAPPY NEW YEAR [ANIM 1] HAPPY NEW YEAR [ANIM 2] 4 HAPPY EASTER [ANIM 3] HAPPY EASTER [ANIM 4] HAPPY HALLOWEEN [ANIM 5] DON'T DRINK & DRIVE [ANIM 6] NO SMOKING [ANIM 7] WELCOME [ANIM 8] Pauses for 2 second delay [PAUSE 1] Pauses for 3 second delay [PAUSE 2] Pauses for 4 second delay [PAUSE 3] Pauses for 10 second delay [PAUSE 4] Pauses for 20 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7] Pauses for 30 second delay [PAU			•	
PHRASE Generate an animated pre-programmed display Generate an animated pre-programmed display HAPPY EASTER [ANIM 4] HAPPY EASTER [ANIM 4] HAPPY HALLOWEEN [ANIM 5] DON'T DRINK & DRIVE [ANIM 6] NO SMOKING [ANIM 7] WELCOME [ANIM 8] Pauses for 2 second delay [PAUSE 1] Pauses for 3 second delay [PAUSE 2] Pauses for 4 second delay [PAUSE 3] Pauses for 6 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]				
PHRASE Generate an animated pre-programmed display Generate an animated pre-programmed display HAPPY EASTER [ANIM 4] HAPPY EASTER [ANIM 4] HAPPY HALLOWEEN [ANIM 5] DON'T DRINK & DRIVE [ANIM 6] NO SMOKING [ANIM 7] WELCOME [ANIM 8] Pauses for 2 second delay [PAUSE 1] Pauses for 3 second delay [PAUSE 2] Pauses for 4 second delay [PAUSE 3] Pauses for 6 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]				
PHRASE Generate an animated pre-programmed display HAPPY EASTER [ANIM 4] HAPPY HALLOWEEN [ANIM 5] DON'T DRINK & DRIVE [ANIM 6] NO SMOKING [ANIM 7] WELCOME [ANIM 8] Pauses for 2 second delay [PAUSE 1] Pauses for 3 second delay [PAUSE 2] Pauses for 4 second delay [PAUSE 3] Pauses for 6 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]				
PHRASE Generate an animated pre-programmed display HAPPY EASTER [ANIM 4] HAPPY HALLOWEEN [ANIM 5] DON'T DRINK & DRIVE [ANIM 6] NO SMOKING [ANIM 7] WELCOME [ANIM 8] Pauses for 2 second delay [PAUSE 1] Pauses for 3 second delay [PAUSE 2] Pauses for 4 second delay [PAUSE 3] Pauses for 6 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]				
PAUSE PAUSE Pre-programmed display HAPPY HALLOWEEN				
PAUSE PAUSE PAUSE PAUSE PAUSE PAUSE PROGRAMME DESTRICT TO SECOND DO SHOW TO SHOW	PHRASE	Generate an animated	HAPPY EASTER	[ANIM 4]
PAUSE DON'T DRINK & DRIVE [ANIM 6] NO SMOKING [ANIM 7] WELCOME [ANIM 8] Pauses for 2 second delay [PAUSE 1] Pauses for 3 second delay [PAUSE 2] Pauses for 4 second delay [PAUSE 3] Pauses for 6 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]		pre-programmed display		
PAUSE NO SMOKING [ANIM 7] WELCOME [ANIM 8] Pauses for 2 second delay [PAUSE 1] Pauses for 3 second delay [PAUSE 2] Pauses for 4 second delay [PAUSE 3] Pauses for 6 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7] Pauses for 30 se				-
PAUSE WELCOME [ANIM 8] Pauses for 2 second delay Pauses for 3 second delay Pauses for 4 second delay Pauses for 4 second delay Pauses for 6 second delay Pauses for 10 second delay Pauses for 20 second delay Pauses for 30 second delay				
PAUSE Pauses for 2 second delay [PAUSE 1] Pauses for 3 second delay [PAUSE 2] Pauses for 4 second delay [PAUSE 3] Pauses for 6 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 5] Pauses for 30 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]				
PAUSE Generate a pause within the programmed message Pauses for 3 second delay Pauses for 4 second delay Pauses for 6 second delay Pauses for 10 second delay Pauses for 20 second delay Pauses for 3 second delay Pauses for 10 second delay Pauses for 20 second delay Pauses for 3 second delay Pauses for 5 second delay				
PAUSE Generate a pause within the programmed message Pauses for 4 second delay [PAUSE 3] Pauses for 6 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]				
PAUSE Generate a pause within the programmed message Pauses for 6 second delay Pauses for 10 second delay [PAUSE 4] Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]			•	
the programmed message Pauses for 10 second delay [PAUSE 5] Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]	DALLOS	Generate a pause within		
Pauses for 20 second delay [PAUSE 6] Pauses for 30 second delay [PAUSE 7]	PAUSE	· ·		
Pauses for 30 second delay [PAUSE 7]		the programmed message		
, , ,				
Pauses for 60 second delay [PAUSE 8]				
			Pauses for 60 second delay	[PAUSE 8]

Appendix B: Listing Of Color

Color Name	Display Code
Red	[RED]
Bright Red	[RED] *
Orange	[ORA]
Bright Orange	[ORA] *
Yellow	[YEL]
Bright Yellow	[YEL] *
Green	[GRE]
Bright Green	[GRE] *
Layer Mix (Rainbow)	[MIX]
Bright Layer Mix (Rainbow)	[MIX] *
Vertical Mix	[MIX]
Saw Tooth Mix	[MIX]
Green on Red	[MIX]
Red on Green	[MIX]
Orange on Red	[MIX]
Yelb w on Green	[MIX]

The color of the dots will not change, except the brightness

Appendix C: Listing Of International Characters

English Character	International Characters
Α	ÄÅÆ
С	ÇĆ
Е	É
N	Ñ
0	ÖÓ
S	
U	Ü
Z	
а	â ä à å æ á
С	Ç
е	é ê ë è
i	ïîìí
n	ñ
0	ôöòó
t	t
u	üûùú
у	Ÿ
Space	αβΓπΣσμ Ω ∞
?	ċ
\$	¢£¥Pt f €

Appendix D: Listing Of Symbol Characters

Note: The actual symbol appear in brackets ("[]") during the programming mode

Sunny	Cloudy	Rainy	Clock
Phone	Glasses	Faucet	Rocket
Alien	Key	Sweater	Helicopter
Car	Tank	House	Teapot
Trees	Duck	Motorcycle	Bike
Crown	Hearts	Right Arrow	Left Arrow
Lower Left Arrow	Upper Left Arrow	Mug	Chair
Shoe	Martini Glass		

Appendix E: Change Password

Step	Keys to press	Explanation	Display
1.	PROG	Enter Edit mode	OPEN: ??
2.	00 <u>EN</u> T	Enter file 00	OLDFIL [CYCLIC]
3.	Press → while the ALT is being hold	Fast shift	
4.	Repeat step 3	A few times until you reach to the end of the file, this is to make sure you will not modify the content of the file while doing password change	
5.	CPW	Enter password mode	UNUSE PASS
6.	NEXT		USE PASS
7.	NEXT		RES PASS
8.	NEXT	Change password	CHANGE: ***
9.	AAA ENT	Change the password to AAA	AGAIN: ***
10	AAA ENT	Confirm the password	You have changed the password to AAA .

^{***} **Note:** If for any reason the password is lost or forgotten, you must access the DIP switch in the back of the sign unit (not the remote control) and move Switch 8 to ON.

Troubleshooting

No display	 Check if the power socket located at the back of the sign is connected. Check if the AC power plug is plugged into the wall outlet. Check if the main power of the AC outlet is normal. Check if the auto on/auto off time setting is correct.
Not response to remote control	 Check if the batteries of the remote control still have enough energy. If user is not sure, please replace all the batteries. Check if the batteries of the remote control are placed at right polarity. Please follow the markings in the battery compartment. Check if there is anything between the remote and the sign blocking the remote signal
No display but Response to the remote control	 Check if the auto on/auto off time setting is correct. Check if the data in the files are valid. If you are not sure, you can enter the edit mode and press 'CLR' key of the remote control, select 'DEL ALL' to erase all data, this will reset the sign to display the default demo messages.
If the above procedue s do not work, please contact your dealer.	