



# Single Line LED Programmable Display Sign

## User Instruction Manual

REMOTE OPERATION

(Version 4.0)

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This manual applies to models of Single Line Display Sign Series only.

(Formula Series, Basica Series, and Ultimate Series)

Note: Specifications are subject to change without notice.



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# Remote Control Programming

## 1: GENERAL INFORMATION

### 1.1: Turning ON / OFF

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

However, instead of unplugging a sign, there is another way, Remote Control, to turn the sign off.

### 1.2: Introduction: Drawing of the Remote Control

Point this end of the remote control at the front of your sign

Hold down **ALT** and then press **ON/OFF** to turn the sign off and on

Press **RUN** to exit programming mode

To type a special characters or symbol

Press **PREV** or **NEXT** to move from mode to mode

Use **SPA** to insert a blank space between characters

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

**In text editing mode:**  
Hold down **ALT** and then press **GRA** to put the sign into one of these modes: (Use **PREV** or **NEXT** to move from mode 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

- 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

Item	Key	Description
1	<b>ON/OFF</b>	Power On / Off. If there is no file in <b>01</b> to <b>99</b> , it will run file <b>00</b> as Default. If there is file in <b>01</b> to <b>99</b> , it will display the last saved file.
2	<b>PROG</b>	Enter the Edit Program Mode. Select <b>01</b> to <b>99</b> to enter message.
3	<b>CPW</b>	Use for edit or reset password.
		Use <b>PREV</b> and <b>NEXT</b> to select (a) to (d). (a) UNUSE PASSWORD: Turn off password security. (b) USE PASSWORD: Turn on password security. (c) RES PASSWORD: Reset to factory default password "000". (d) CHANGE PASSWORD: Change to new password.
4	<b>MET</b>	To select the display modes, choose from pre-programmed 24 different modes. Note: Press <b>PREV</b> and <b>NEXT</b> to select (1) to (24) methods. See Appendix A.
5	<b>PREV</b>	Select option backward.
6	<b>NEXT</b>	Select option forward.
7	<b>CAP</b>	Toggle between Capital letter and lower case character.
8	<b>TIME</b>	To select time option. See Appendix B.
9	<b>SPE</b>	Select the display speed of the message. (Use <b>PREV</b> and <b>NEXT</b> to select the different speed.)
10	<b>FONT</b>	Select the font size of the display message. (Use <b>PREV</b> and <b>NEXT</b> to select the different font size.)
11	<b>COL</b>	Select the color of the display message. (Use <b>PREV</b> and <b>NEXT</b> to select the different color of the display message.)
12	<b>SYM</b>	Select 30 built-in symbols. (Use <b>PREV</b> and <b>NEXT</b> to select the different symbol.)
13	<b>CLR</b>	Erase option.
14	<b>GRA</b>	Select graphic option. (Use <b>PREV</b> and <b>NEXT</b> to select the following options.)
		(a) <b>GET GRAPH</b> Place the graphic in the message. Use <b>PREV</b> and <b>NEXT</b> to select <b>GRAPH A</b> to <b>GRAPH P</b>
		(b) <b>MAKE GRAPH</b> Create new graphics in location <b>NUMBER A</b> to <b>NUMBER H</b> .
		(c) <b>EDIT GRAPH</b> Edit <b>GRAPH A</b> to <b>GRAPH P</b> and store in one of the location of <b>NUMBER A</b> to <b>NUMBER H</b> .
		Note: Please refer to 28. Cursor direction pointer to make and edit graphic.
15	<b>⇨</b>	Moving the message and command to the right.
16	<b>⇦</b>	Moving the message and command to the left.
		Note: IF YOU WANT TO DELETE MESSAGE OR COMMAND IN THE EDIT PROGRAM MODE. PLEASE USE ABOVE KEYS TO MOVE THAT MESSAGE OR COMMAND TO THE LEFT-MOST POSITION AND PRESS <b>DEL</b> .  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 AND (1) PRESS <b>INS</b> TO INSERT. (2) TYPE IN YOUR MESSAGE OR PRESS COMMAND KEY, IT WILL INSERT AUTOMATICALLY. (3) PRESS <b>INS</b> AGAIN TO OVERWRITE.

17	<b>ALT</b>	Use the alternative symbol on the remote control keyboard.
18	<b>PAU</b>	Generate a pause within the programmed message. (Use <b>PREV</b> and <b>NEXT</b> to select <b>PAUSE 1</b> to <b>PAUSE 8</b> )
19	<b>PHR</b>	Select a programmed animation in the message. (Use <b>PREV</b> and <b>NEXT</b> to select <b>ANIM 1</b> to <b>ANIM 8</b> )
20	<b>BEEP</b>	Select beep sound in the message. (Use <b>PREV</b> and <b>NEXT</b> to select <b>BEEP 1</b> to <b>BEEP 3</b> )
21	<b>ENT</b>	ENTER: Accepts the selected option.
22	<b>ESC</b>	ESCAPE: Return to the upper manual in the edit program mode.
23	<b>INS</b>	INSERT: Refer to 15 and 16
24	<b>DEL</b>	DELETE: Refer to 15 and 16
25	<b>SPA</b>	SPACE: Insert space in message.
26	<b>RUN</b>	(1) After programmed the message, press <b>RUN</b> to save and run the message. Please SAVE it and press on "Y" as YES. (2) For choosing pre-programmed messages, press <b>RUN</b> and enter <b>01</b> to <b>99</b> to select messages which are already saved in those files.

## 2: BEGINNING TEXT MESSAGES

### 3.1: Example 1- A simple message

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 it.

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

#### STEP 1

Step	Keys to press	Explanation	Display
1.	<b>PROG</b>	Begin the edit program mode.	<b>PASSWORD.***</b>
2.	<b>0 0 0</b>	Default Password "000".	<b>PASSWORD.***</b>
3.	<b>ENT</b>	Enter into editing mode.	<b>OPEN: ??</b>
4.	<b>01 ENT</b>	The first two digit file number (01-99) are allowed for naming message files <b>[CYCLIC]</b> is the default method of display mode which means to cycle random moving methods.	<b>[CYCLIC]</b>
5.	<b>WELCOME</b>	Start typing the message.	<b>WELCOME</b>
6.	<b>RUN</b>	Ready to run the message on the display.	<b>SAVE? (Y/N)</b>
7.	<b>Y</b>	Save the message as data file number 01	Message begins to be displayed

You have just created your first message! Here are some important things that you learned from this first exercise:

- You will hear an audible beep when the sign accepts from the remote. This is one additional way besides viewing the unit to assure you that the button you pressed has been received properly.
- If you made mistake(s) while typing, you correct them by pressing the **DEL** key, so you can remove the mistake(s) and re-entered in the correct information.
- The default color for messages is Bright Red. A list of all color possibilities for Tri-Color units can be found in Appendix C.
- When you would like to program a new message, it always begins with the default moving method of display as **[CYCLIC]**, which stands for cycle ALL pre-programmed methods randomly.

You can follow the above procedures to enter some more messages, as long as the total file numbers **not excess 99** and the total length of characters **not excess 7000**.

### 3.2: Example 2- Running a saved message

Normally, your latest created / modified message runs on the display sign, but there is an option that you can choose other saved messages to show at any time.

#### *A Run Message File Example -*

Step	Keys to press	Explanation	Display
1.	<b>RUN</b>	Run a saved message	<b>RUN : ??</b>
2.	<b>02 ENT</b>	Select file 02	Message begins to be displayed

### 3.3: Example 3- Recalling a saved message for edit

In order to recall the previously saved message, press the **PROG** key, and then input the two-digit number and press the **ENT** key. Press the password if you set it up. (Default Password is "000") If there is a previously stored message in the number, it will show **[OLDFIL]** and programmed messages..

#### *A Simple Message File Recall Example –*

Step	Keys to press	Explanation	Display
1.	<b>PROG</b>	Begin the edit program mode	<b>OPEN : ??</b>
2.	<b>01 ENT</b>	This is the file number previously stored message file. (See example of STEP 1.)	<b>OLDFIL [CYCLIC].....</b>
3.	<b>RUN</b>	End the edit program mode	<b>SAVE ? (Y/N)</b>
4.	<b>N</b>	There is no need to re-save the data file	Message begins to be displayed

### 3.4: Deleting a message file

In order to erase some messages, enter the Edit Mode, then press the key **CLR** and cycling through the difference functions by pressing the **PREV** or **NEXT** key.

The Erase / Delete functions and their definitions below:

- DEL ALL                    Clear all message files
- DEL FILE ??              Delete 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

## 4: ADVANCED TEXT MESSAGING

### 4.1: Example 4- Adding more message information

Once you have successfully programmed your first message, you find that using the remote control to program messages is extremely easy. Adding spectacular color, animation and varying the shape of the letters, those additional outstanding performance can be done quickly.

#### *A More Complex Programming Example -*

Let's program a message that is eye-catching and appealing to the audience about NEW ITEM and WELCOME. Please see the STEP 2 below. Please, SKIP #4 & #6 for Single Color LED Programmable Display Sign.

#### Step 2

Step	Keys to press	Explanation	Display
1.	<b>PROG</b>	Start programming a new message.	<b>OPEN : ??</b>
2.	<b>02 ENT</b>	This is the file number to assign to this new message file.	<b>[CYCLIC]</b>
3.	<b>NEXT NEXT NEXT NEXT</b>	Assign the moving method: <b>Open From Center.</b>	<b>[OPEN &lt;&gt;]</b>
4.	<b>COL NEXT NEXT NEXT</b>	Assign the color <b>Bright Orange.</b>	<b>[ORA]</b>
5.	<b>NEW ITEM</b>	Write a message.	<b>NEW ITEM</b>
6.	<b>COL NEXT NEXT NEXT NEXT NEXT NEXT NEXT NEXT</b>	Assign a rainbow color. (Not Available for Single Color unit.)	<b>[MIX]</b>
7.	<b>MET NEXT NEXT NEXT NEXT NEXT NEXT NEXT</b>	Assign the moving method: <b>Cover From Right.</b>	<b>[COVER←]</b>
8.	<b>WELCOME</b>	Write a message.	<b>WELCOME</b>
9.	<b>PAU NEXT</b>	Pause for 2 second delay at end of message.	<b>[PAUSE 2]</b>
10.	<b>RUN</b>	Run the message.	<b>SAVE ? (Y/N)</b>
11.	<b>Y</b>	Save the data file as 02.	Message begins to be displayed

The attraction of this programming is that there are unlimited designs for your messages with the colors, moving methods, character sizes, and so on.

Note: If you have a message more than the screen area, it will automatically scroll from the right to left.

Refer to Appendix A, please learn more about the functionality and how to maximize the benefit from the sign.

## 4.2: Example 5- Programming a sequence file

### A Simple Sequence Example -

Let's make sequence messages, please see those 10~14 messages. Assume that you have already created those following messages in those files below:

File Number	Message
10	<b>Welcome to</b>
	<b>SuperViewVision</b>
11	<b>LED Programmable Display</b>
	<b>Signs</b>
12	<b>Tradeshow location is Las</b>
	<b>Vegas.</b>
13	<b>Please contact to the dealer.</b>
14	<b>New item</b>

You may want to display the above messages from 10:00 am to 1:00 pm, Monday through Friday. In order to display the entire message, your sequence file would contain those numbers **10, 11, 12, 13, 14.**

Step	Keys to press	Explanation	Display
1.	<b>PROG</b>	Start programming.	<b>OPEN : ??</b>
2.	<b>S</b>	For sequential file.	<b>[S0]</b>
3.	<b>1 ENT</b>	Enter sequential file number.	<b>DAY 0 1 2 3 4 5 6</b>
4.	<b>→</b>	Move right.	<b>1</b> high lighted
5.	<b>NEXT / PREV</b>	Toggle for ON/OFF.	<b>1</b> in green with red background.
6.		Repeat steps 4 & 5 for 2, 3, 4, 5 until all 1, 2, 3, 4, 5 in green color.	
7.	<b>S</b>	Set start time.	<b>START 00:00</b>
8.	<b>NEXT / PREV</b>	Change the start timer.	The digit in green will be changed.
9.	<b>← →</b>	Use the Arrow Key for proper number	
10.		Repeat steps 8 & 9 until display shown <b>10:00.</b>	
11.	<b>S</b>	Set the stop time.	<b>END 23:59</b>
12.		Repeat 8 & 9 until display shown <b>13:00.</b>	
13.	<b>ENT</b>	Confirm the time setting.	<b>S1</b>
14.	<b>10 11 12 13 14</b>	This is the sequence of file numbers to display, separated by a space.	
15.	<b>RUN</b>	Run the program.	<b>SAVE ? (Y/N)</b>
16.	<b>Y</b>	Save the sequence file as <b>S1.</b>	Program completed.

Please note that once there is any sequence file and the time setting is valid, those messages will display on the sign and the preset message starts from sequence file **S0** through **S9.**

### 4.3: Example 6- Password protection

Password protection is built into the sign. In order to program a message or turn off the display with moving sign in password protect mode, you must key in the correct password. You are required to enter the edit mode when you want to change the password, reset the password or disable the password for your security purpose.

#### *Steps to change the password*

Step	Keys to press	Explanation	Display
1.	<b>PROG</b>	Enter Edit mode.	<b>OPEN : ??</b>
2.	<b>00 ENT</b>	Enter file 00.	<b>OLDFIL [CYCLIC]</b>
3.	Press → while the <b>ALT</b> is being hold	Fast shift.	
4.	Repeat step 3	Make sure that you will not modify the content of the file while changing the password.	
5.	<b>CPW</b>	Enter the password.	<b>UNUSE PASS</b>
6.	<b>NEXT</b>		<b>USE PASS</b>
7.	<b>NEXT</b>		<b>RES PASS</b>
8.	<b>NEXT</b>	Change the password.	<b>CHANGE: ***</b>
9.	<b>AAA ENT</b>	Change the password to <b>AAA</b> .	<b>AGAIN: ***</b>
10.	<b>AAA ENT</b>	Confirm the password.	You have changed the password to <b>AAA</b> .

Note: Meaning of display

- UNUSE PASS Turn off the password security
- USE PASS Turn on the password security
- RES PASS Reset to the factory default password as "000"
- CHANGE PASS Change to the new password

\*If you lost or forgot the password, please contact to the seller.

### 4.4: Using the international characters

Using pre-programmed international characters, you can program them with the remote control, the key of English is equivalent for the character and use the **NEXT** and **PREV** buttons. (Example: Key in "\$" and use the **NEXT** button until the "£" character appears if you want to display the currency symbol of the British Pound). See Appendix D for more information.

### 4.5: Getting a graphic

In order to get a graphic into messages, simply press **GRA**. It is available with other functions and press **ENT** when the display shows "GET GRAPH". All preset or pre-programmed graphics can be used with the key **PREV** or **NEXT** pressed. Then, press **ENT** to choose the one.

## APPENDIX A: ADDITIONAL PROGRAMMING TIPS

The following functions require that you move through the list of possibilities and make a selection. Use **NEXT** and **PREV** keys to move through the list of choices.

Function Code	Definition	Possibilities	Control
METHOD	Display Option	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><]
		Interlace Cover	[INCOVER><]
		Cover Up	[COVER ↑]
		Cover Down	[COVER ↓]
		Scan Line	[SCANLN]
		Explode	[EXPLODE]
		Pac Man	[PACMAN]
		Fall & Stack	[FALL]
Shoot	[SHOOT]		
Flash	[FLASH]		
Random	[RANDOM]		
Slide in	[SLIDE IN]		
COLOR	Alters the color of text	See Appendix C	
FONT	Changes the shape and size of characters	5×6 Short	[5×6]
		5×11 Short & Wide	[5×11]
		7×6 (Default)	[7×6]
		7×11 Wide	[7×11]
		7×9	[7×9]
		7×17 Extra Wide	[7×17]
		Small Fonts	[Small]
SPEED	Change the scrolling speed of the display	Speed 1 (Fastest)	[SPEED 1]
		Speed 2	[SPEED 2]
		Speed 3	[SPEED 3]
		Speed 4	[SPEED 4]
		Speed 5	[SPEED 5]
		Speed 6	[SPEED 6]
		Speed 7	[SPEED 7]
		Speed 8 (Slowest)	[SPEED 8]
GRAPHICS	Editable by user		[GRAPH A]
			[GRAPH B]
			[GRAPH C]
			[GRAPH D]
			[GRAPH E]
			[GRAPH F]
			[GRAPH G]
			[GRAPH H]

	Non-editable by user	City	[GRAPH I]
		Car	[GRAPH J]
		Vessel	[GRAPH K]
		Tel	[GRAPH L]
		Nature	[GRAPH M]
		Ship	[GRAPH N]
		Swim	[GRAPH O]
		Cat	[GRAPH P]
PHRASE	Generate an animated pre-programmed display	MERRY X'MAS	[ANIM 1]
		HAPPY NEW YEAR	[ANIM 2]
		4 <sup>TH</sup> JULY	[ANIM 3]
		HAPPY EASTER	[ANIM 4]
		HAPPY HALLOWEEN	[ANIM 5]
		DON'T DRINK & DRIVE	[ANIM 6]
		NO SMOKING	[ANIM 7]
		WELCOME	[ANIM 8]
PAUSE	Generate a pause within the programmed message	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 60 second delay	[PAUSE 8]

## **APPENDIX B: TIMER OPTIONS**

Note: You may only set the timer functions while in the EDIT program mode.

To select the timer function while editing at the end of a message, press the **TIME** key. Press the **NEXT** and **PREV** keys to select the timer functions and press the **ENT** key to make your selection

To input the time, press the Left and Right Arrow Keys to move through the digits and use the **NEXT** or **PREV** keys to increment or decrement the values for the number digits.

<b>Function</b>	<b>Description</b>
SET TIME	Adjust the Real Time Clock
SET DATE	Adjust the Date
ALARM HOUR	Set alarm times and interval
ALARM	Set the hourly alarm On/Off
12H MODE	If selected, the time will be displayed in 12-hour format (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**.

**XXX** is a number from **000** to **255**.

**C** is the total 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.

**APPENDIX C: 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]
Yellow on Green	[MIX]

\*APPENDIX B: For RB Tri-Color, it has the same function as RG Tri-color.

**APPENDIX D: LISTING OF INTERNATIONAL CHARACTERS**

English Character	International Characters
A	À Á Â Æ
C	Ç Ć
E	É Ě
N	Ñ
O	Ö Ó
S	Š
U	Ú
Z	Ž Ž
a	â ä à á æ á ù ù ù
c	Ç
e	é ê ë è ě
i	ï ï ï ï
n	ñ ñ
o	ô õ ò ó ù
t	†
u	ù ú û ú
y	ÿ
Space	α β γ π Σ σ μ τ φ θ Ω ∞ δ φ
?	¿
\$	¢ £ ¥ Pt / €

**APPENDIX E: 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		

## TROUBLE SHOOTING

No display	<ul style="list-style-type: none"><li>-Check the power socket connection at the back of the sign.</li><li>-Check the AC power plug is plugged into the wall outlet properly.</li><li>-Check the main power of the AC outlet is working properly.</li><li>-Check the auto on/auto off time setting.</li></ul>
Not response to remote control	<ul style="list-style-type: none"><li>-Check the batteries of the remote control.</li><li>-Check the batteries of the remote control if those are placed at right polarity. Please, follow the markings in the battery compartment.</li><li>-Check if there is anything blocking the signal between the remote and the sign.</li></ul>
No display but response to the remote control	<ul style="list-style-type: none"><li>-Check the auto on/auto off time setting.</li><li>-Check if the data in the files are valid.</li><li>-If you are not sure, you can enter the edit mode and press <b>CLR</b> key of the remote control, select <b>DEL ALL</b> to erase all data, this will reset the sign to display the default demo messages.</li></ul>
Any further questions, please contact to the seller or dealer.	