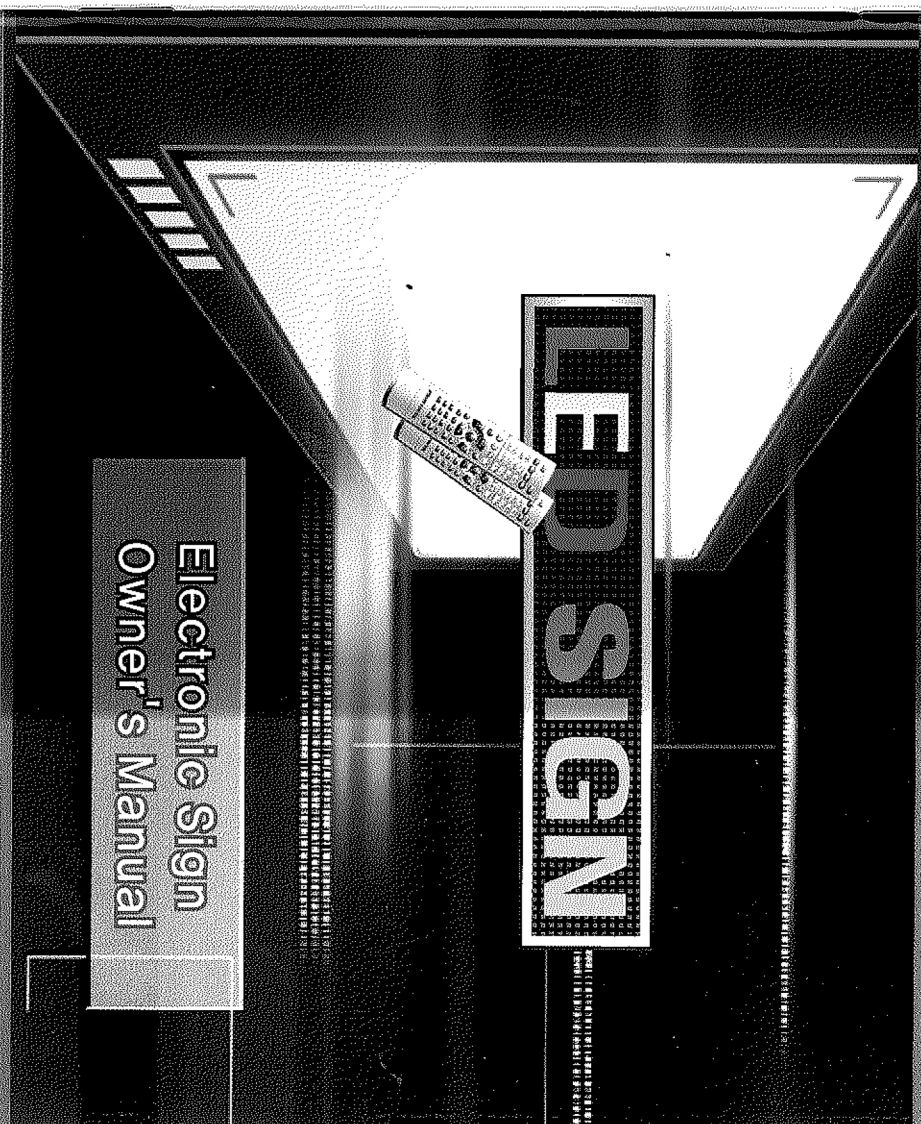


LED SIGN






















**Electronic Sign
Owner's Manual**



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Safety Information

-  Do not plug more than two plugs into one outlet.
-  Plugging in too many at a time causes overheating which is a fire hazard.
-  Do not bend or excessively twist the cord or places heavy objects on top of it.
 -  Excessive bending or twisting the cord or placing heavy objects on the cord may cause the wires inside to short circuit thus causing a fire hazard.
-  Do not touch plug or outlet with wet hands
 -  because touching the plug or outlet with wet or damp hands may cause electrical shock.
-  Plug securely into outlet so it does not shake or wiggle loose.
 -  Loose plugs can overheat and cause an electrical fire.
-  Do not open, take apart or modify any part of the unit.
 -  Opening of modifying this sign in any way is dangerous and can result in short circuits that can cause bodily harm or even death.
-  If you detect smoke or smell anything unusual, immediately stop using the electric sign, turn off the power, unplug the unit and then call the service center.
 -  Continuing to use the unit after detecting smoke or an unusual smell is dangerous and it can result in fire.
-  Handle with care while transferring or carrying the unit.
 -  Dropping the unit causes damage and it may not work properly.
-  While installing the unit, be sure to fasten it securely.
 -  Unsecured units can fall causing injury and bodily harm.
-  Installing this unit so it can move around or installing it near a magnet or magnetic source will make it inoperable.
-  Do not disassemble or carelessly open the remote control.
 -  Disassembling it will cause the remote control not to work properly.

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Unique / Special Features of Unit

Before Operating Unit Section

- ▶ Users can freely adjust the size of letters and characters
- ▶ Consumers can set up sign by following basic steps 1-6 or by expanding and adding features during each step
- ▶ Unit is four times brighter than other signs
- ▶ Unit can uses 1/8" bright mode
- ▶ Unit is waterproof and completely safe for outdoors use
- ▶ Unit has a unique silicon waterproof treatment coating made by the American company Dow Corning
- ▶ Remote control Han-gul input is built by the same company that builds the LED sign
- ▶ Employs a touch-button remote control system to easily and accurately input the Korean language
- ▶ Offers automatic on/off feature
- ▶ Displays business hours, when the store is open or closed and when the store is closed for extended periods. It can also be used to advertise various reservations and advertisements
- ▶ Can be programmed to display the date and time
- ▶ Unit has a built-in timer chip used to display the time and date of various activities and functions using various graphic effects.
- ▶ It can also indicate current and future events to enhance your advertising.
- ▶ Up to six languages can be input and displayed
- ▶ Earlier versions had only 2-3 languages but with this unit you can display up to six different languages and with many different effects
- ▶ Chose up to 20 extra effects with all six languages
- ▶ Unit is capable of displaying approximately one hundred different and distinctive results
- ▶ Older units only displaying a few basics functions but this unit can display many various effects
- ▶ Unit construction features a thin and light outer frame
- ▶ Unit features a thin and slender aluminum frame
- ▶ Offer the convenience of remote control input
- ▶ Remote control input method is very similar to inputting information into cellular phones
- ▶ Simple installation procedures
- ▶ Fast and reliable after-the-sale service
- ▶ Defective units can be exchanged during the valid warranty period

Function and Description of Remote Control buttons

Power Button
It turns unit on/off

Change Color Tone
Change Color Tone characters and letters

Control the size of characters and letters

Korean Alphabet Button
Used to enter Korean Alphabet

English Capital letter Button
Used to enter English Capital letters

Delete Button
Used to delete previously entered letters

Speed Button
Used to control the speed with which effects are displayed

Illustration Button
Controls Illustration

Copy Button
Used to copy previously entered letters, and to see the immediate results of color effects

Demo Button
Used to show the results of various inputs

Special Button
Used to enter special letters or characters

Action Button
Used to display animation

He-ko Button
Used to enter Japanese 'Hee-ko Gaa-Na'

Ga-Da Button
Used to enter Japanese letters 'Gaa-Da Gaa-Na'

Menu Button
Enhances the control function of the electric light panel (picturesque)

Use to change the size and other attributes of letters

Used to enter/change letters!(, a A to B)

Lower Case English Button
Used to enter lower case English letters

Number Button
Used to enter numbers

Space Button
Used to enter a space between words and characters

Effect Button
Used to select various effects from the menu

Confirmation/OK Button
Used to confirm various functions and actions

Delete Button
Used to delete characters

Neon Button
Used to add a neon effect when entering characters

Centering/Justifying Button
Used to center a line of characters or to justify the (make the same) height of characters

Symbol Button
Used to input symbols and special characters

Icon Button
Used to input stop icon

Foreign Character Button
Used to enter letters other than those already included in the 3 languages

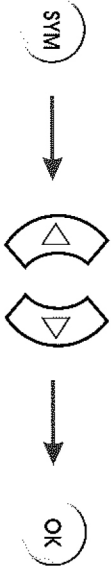
Chinese Writing Button
Used to enter Chinese characters and letters

How to use enter letters using the remote control

▶ Entering a "HOUSE"

Press **ENG** Button first – 2 times on **GHI** Button – 3 times on **MNO** Button – 3 times on **STU** Button – 1 times on **STU** button – 2 times on **DEF** Button

▶ Entering symbols or characters



After pressing desired symbol button, press the OK button to select.

▶ To input a printed diagram or figure



After pressing desired special or Icon button, press the OK button to select.

▶ To input a printed diagram or figure



After pressing desired special or icon button, press the OK button to select.

▶ To change a letter, letter color, border (frame), letter effect and so forth, select the appropriate letter key by moving the cursor left or right and then use the appropriate button keys to change affects such as tone of color, size of letters, etc.

Illustration of how to enter a basic announcement or advertisement

- ▶ Begin by pressing the Menu Button on the Remote Control.
- ▶ When the "additional contents" menu appears, press "OK/Confirmation" button to confirm.
- ▶ When the "Adding Sentence" menu appears, press "OK/Confirmation" button to confirm.
- ▶ When the "Enter writing/information" message appears then disappears, enter the desired passage (text) for announcements or advertisements.
- ▶ After completing passage (text) for announcements or advertisements, press "OK/Confirmation" button.
- ▶ What is an insertion a result?
Immediately after inputting the above announcements or advertisements you can see the effects of your results.
- ▶ After selecting an "insertion effect", press the 'Up/Down' button to preview the effect that you entered earlier. Use the "OK/Confirmation" button to enter your selection.
- ▶ From the preview condition, press the UP/DOWN button to see the effects change little. Press the left/right to see changes in speed.
- ▶ After deciding on the desired results, press "OK/Confirmation" button to store the effect
- ▶ After store the effect, the 'Maintaining Effect Selection' message appears and disappears.
- ▶ From the previous viewing condition, press 'Up/Down' button to see the direction/effects change little by little. Pressing left/right to preview changes the speed.
- ▶ After deciding on the selection, press the "OK/Confirmation" button to store the effect in memory.
- ▶ After the effect is stored, the message "Maintain, 5 seconds" appears.
- ▶ Select the number of seconds to display the effect and then, press the "OK/Confirmation" button to store the effect in memory.
- ▶ When the message "select a display effect" appears/disappears, use the Up/Down button to select an effect.
- ▶ Select a display effect and then press "Up/Down" to see the effect change little by little. Press the left/right button to change the speed.
- ▶ After previewing and deciding on the display effect, press the "OK/Confirmation" button. The "connection X" message displays. If you want to connect a prior sentence to the current sentence, press the up/down button. Use 0 to connect and X to store. Then select the "OK confirmation" button to store the entire advertisement effect.
- ▶ When "additional contents" message displays, press the cancellation button. The advertisement effect is stored and displayed on the electric sign.

Menu Table

1. Adding Contents

- ① additional sentence ② adding figure/diagram ③ Video ④ image
- ⑤ date indication ⑥ time indication ⑦ D-date ⑧ D-time ⑨ an event

2. Revision (modification) of Contents

3. Enter Information (contents)

4. A list of Contents

5. Deletion of contents

- ① Deleting Selection ② Delete all

6. Stop Watch

7. Creation a password

8. Setting the timer

- ① setting the timer ② setting dates ③ setting turn on ④ setting turn off

9. Equipment set up

- ① Reservation X ② Sound X ③ production date ④ number of column
- ⑤ color ⑥ screen (one side or Both) ⑦ Test
- ⑧ changes in tone of color

10. Manager of Unit

Adding Contents

1. Adding Contents

① Adding Sentences

- ▶ Press Menu button on remote control.

- ▶ When the message, "additional contents" appears, press the "OK/confirmation" button.

- ▶ When the message, "adding an additional sentence" appears, press "OK/confirmation" button.

- ▶ After the "enter a sentence" message appears/disappears, the cursor on the left side blinks.

- ▶ After inputting the sentence, use the left/right button to select letter(s) to preview effect such as tone of color, length of letter, and other attributes.

- ▶ After the "enter a sentence" message appears/disappears, the cursor on the left side blinks.

- ▶ After previewing your sentence, save it by pressing the "OK/confirmation" button. The "insert effect selection" message appears/disappears.

- ▶ What is an insertion effects? Immediately after inputting the above announcement or advertisement you can see the effects of your results.

- ▶ The "automatic display" appears. Press the Up/Down button to scroll through the following option : 02:Scroll, 03:Gather, 04:Drama, 05:Hurricane, 06:Tornado, 07:Lens, 08:Appear, 09:Color Tone Classification, 10:Lightbeam, 11:Wave. Select the desired choice from among these choices and then press the "OK/confirmation" button.

- ▶ After viewing the effect entered above, press the up/down button to preview the effect and then use the up/down button to see the effects change little by little or press the left/right button to see the speed change. If you decide to keep these effects then press the "OK/confirmation" button to keep them. After keeping your selection and you want to cancel it, press the cancel button to go back to the previous step.

- ※ When completing basic steps 1 to 6, text that exceeds 6 letters in a row will flow off the screen to the left but any effects previously set can still be displayed.

- ※ To enter neon effects to previous entries, press the neon button and the effects will appear.

- ※ Pressing up/down button continuously displays different neon effects.

Adding Contents

- ▶ After setting the effect the "maintain effect selection" message appears and disappears.
- ▶ What is "maintain effect?" After entering and saving an effect, you can set the length of time the effect is displayed.
- ▶ When the "maintain effect" selection disappears, the message for adding drama to the effect appears. Select drama using the up/down button to add 1.drama 2.reversal 3.shake 4.hurricane 5.tornado 6.lens 7.No Effect
- ▶ After viewing the effect entered above, press the up/down button to preview the effect and then use the up/down button to see effects change little by little or press the left/right button to see the speed change.
If you decide to keep these effects then press the "OK/confirmation" button to keep them.
- ▶ After keeping your selection and you want to cancel it, press the cancel button to go back to the previous step.
- ▶ After the effect is set, the message "maintain 05" appears.
You can select the number of seconds the effect appears from 01 to 99 seconds.
Lower numbers equal faster display times.
- ▶ To set the display time, press the OK/Confirmation button to store the setting.
- ▶ When the "Display effects" message appears and disappears, the number 1.Scroll appears.
Press the Up/Down button to scroll through the following options: 2.Drama 3.Hurricane 4.Tornado 5.Dividing 6.Lens 7.Erase 8.Color tone classification.
Select the desired choice from among these choices by pressing the left/right button.
- ▶ If you select the display effects you can preview it.
From this position you press Up/Down button to see the effects change little by little.
Press the left/right button to see changes in speed. After Previewing and deciding on the display effect, press the "OK/Confirmation" button, the "connection X" message appears.
The previous sentence does not disappear, it remains on the screen and from this point a new effect can be selected and use "connect O" to add the new effects to the existing sentence.
- ▶ After deciding on the display effect, the message "its stored" appears and disappears.
The adding sentence step is complete and so the "add additional sentence" message appears again.
- ▶ To continue adding sentences, simply repeat the previous steps. To cancel adding sentences press the cancel or menu buttons.

Adding Contents

- ② Adding Pictures
 - ▶ Press the Menu button on the remote control
 - ▶ The "add content" message appears, press the OK/Confirmation button
 - ▶ When the "add picture" message appears, press the OK/Confirmation button.
 - ▶ Add additional sentences using the 1,1 adding sentence method.
- ③ Video & Image
 - ▶ Press the menu button on the remote control.
 - ▶ The "add content" message appears, press the OK/Confirmation button
 - ▶ When the "video" message appears, press the OK/Confirmation button
 - ▶ Add additional sentences using the 1,1 adding sentence method.
- ④ Date Indication
 - ▶ Press the Menu button on the remote control
 - ▶ The "add content" message appears, press the OK/Confirmation button
 - ▶ When the "date indication" appears, press the OK/Confirmation button
 - ▶ Add additional sentences using the 1,1 adding sentence method.
- ⑤ Time Indication
 - ▶ Press the Menu button on the remote control
 - ▶ The "add content" message appears, press the OK/Confirmation button
 - ▶ When the "Time indication" appears, press the OK/Confirmation button
 - ▶ Add additional sentences using the 1,1 adding sentence method.
- ⑥ D-Date & D-Time
 - ▶ Before you can select/set D-Date you must select 1,4 date indication and 1,5 time indication first. Press the menu button in the remote control.
 - ▶ When the "D-date" message appears, press the OK/Confirmation button
 - ▶ When the "D-date" message appears, press the OK/Confirmation button

Contents—Amend/Revise, Enter Content

- ▶ "2006/05/01" When this message appears, use the left/right buttons to change to the Year/Month/Day positions and then the up/down buttons to change the Year/Month/Day
 - ▶ After designation the Year/Month/Day, press the OK/Confirmation button and the D-day message appears.
 - ▶ Press the OK/Confirmation button again and then enter "D-Day message" appears. Enter the D-Day information and then press OK/Store button to store the D-Day information
- ⑦ **Event**
- ▶ Press the menu button on the remote control.
 - ▶ The "add content" message appears, press the OK/Confirmation button.
 - ▶ When the "event" appears, press the OK/Confirmation button
 - ▶ Add additional sentences using the 1,1 adding sentence method

2. Contents—Amend/Revise

Any stored Sentence/Date/Hour/D-day/Event can be amended.

- ▶ Press the menu button on the remote control.
- ▶ The "add content" message appears.
- ▶ Using the up/down button to select "content amend/revise" and then press the OK/Confirmation button.
- ▶ Previous information stored (sentences/date/hours/D-day) are indicated.
- ▶ Use Up/Down button to select the contents you wish to correct/amend and then press the OK/Confirmation button.
- ▶ After amending the contents, contents, press the OK/Confirmation button.
- ▶ To maintain the insertion/maintain/display effects use the "adding content" method.

3. Enter Content

If you have existing information or stored content, use these instructions to add new information and/or content.

- ▶ Press the menu button on the remote control.
- ▶ The "add content" message appears. Using the up/down button, select "enter content" then press the OK/Confirmation button.

List of content, Delete Contents

- ▶ Previous information stored (sentences/date/hour/D-day) are indicated.
- ▶ Use up/down button to select the contents you wish to correct/amend and then press the OK/Confirmation button.
- ▶ For example ; to add content between existing content labeled 1 and 2, from the 2 press the OK/Store button.
- ▶ The method for inputting additional information or content is identical to the "add contents" method outlined earlier.

4. List of content

Use this function to display and confirm a list of stored information.

- ▶ Press the menu button on the remote control.
- ▶ The "add content" message appears.
- ▶ Using the up/down button, "list of content" then press the OK/Confirmation button. The "01: Sentence Content" appears.
- ▶ Use the Up/Down button to inspect the list of content. Press the OK/Confirmation button to display. Use 01:0 display content or 01:X not to display content.

5. Delete Contents

Use this function to delete all or part of sentences, dates, times already stored.

※ **WARNING!** Deleted contents cannot be recovered! So, confirm you really want to delete the selected content before selecting the delete function.

⑦ Deleting a Selection

- ▶ Press the menu button on the remote control.
- ▶ The "add content" message appears. Using the up/down button, Select "Delete a Selection" then press the OK/Confirmation button.
- ▶ The "Delete a Selection" message appears.
- ▶ Press the OK/confirmation button 01:3: Sentence content appears.
- ▶ Press the Up/Down button to select content, and after what information you want to delete, press OK/Confirmation button and then your selection will disappear (be deleted)

Stop watch, Created a Password

② Delete all

- ▶ WARNING! Deleted contents cannot be recovered!
- ▶ So, confirm you really want to delete all content before selecting the delete function.
- ▶ Press the menu button on the remote control.
- ▶ The "add content" message appears.
- ▶ Using the up/down button, select "Delete a Selection" then press the OK/Confirmation button
- ▶ After the "delete a selection" message appears, use the up/down button to Delete all
- ▶ Immediately press the OK/Confirmation button and the Delete Y/N? From there press OK/Confirmation button and a message appears confirming the deletion is complete confirming all the information has been eliminated.

6. Stop watch

Use this function to set the timer between 1/100 seconds.

- ▶ Press the menu button of the remote control.
- ▶ The "add content" message appears. Using the up/down button, select "Stop Watch" then press the OK/Confirmation button.
- ▶ After selecting, the OK/Confirmation button,
- ▶ The ① increase mode / ② decrease mode appears.
- ▶ Use the up/down button to select the ① increase mode / ② decrease mode.
- ▶ Press the OK/Confirmation button and the stop watch displays.

7. Created a Password

Use this function to prevent others from making changes to your LED.

- ▶ Press the menu button of the remote control
- ▶ The "add content" message appears.
- ▶ Using the up/down button, select "Create a Password" then press the OK/Confirmation button.
- ▶ When the password message appears, enter your own secret 4 digit PIN number.
- ▶ After entering pin number, confirm PIN message appears, enter the exact same PIN.
- ▶ A message appears, "New password is stored"
- ▶ After finishing entering your PIN, Press the cancellation button.

Setting the Timer

8. Setting the Timer

This function indicates Date/Hour/D-Date and to set the timer to on/off.

① Timer Setting

- ▶ Press the menu button on the remote control.
- ▶ The "add content" message appears. Using the up/down button, select "setting the timer" then press the OK/Confirmation button.
- ▶ The select time message appears, immediately press the OK/Confirmation button and the current time appears (for Example : 10:22) When to use the low button it is set.
- ▶ Use the left/right button to select am or pm hour and minute by using up/down cursor to change the Hour/minute to the time setting preferred.
- ▶ After setting the time, Press OK/Confirmation button, a "current time stored" message appears showing the hour/minute times stored.

② Setting date

- ▶ Press the menu button on the remote control.
- ▶ The "add content" message appears. Using the up/down button, select "Setting the Timer" then press the OK/Confirmation button.
- ▶ When the set timer message appears, use the up/down button to select date, press the OK/Confirmation button.
- ▶ A message will appear with the current date (For example : 06 May 14) Use the left/right button to move to the Year/month/date and the up/down button to select and change it.
- ▶ After setting the date, Press OK/Confirmation button, a "Current date stored" message appears showing the year/month/date times stored.

③ Timer on/Timer off

- ▶ Use the same method identical to setting the time.
- ▶ By using this function you can turn the sign ON/OFF as need.

Appendix 1

Maintenance and Inspection

1. If no power to the unit,
 - 1) Check to see if the power plug is securely plugged in to power outlet source.
 - 2) Unplug the plug from power source outlet, wait 10 seconds and plug it in again.
 - * After executing the above action three times, the unit still has a no power, please request A/S
2. When the remote control does not work,
 - 1) Remote control reception is located on the right side middle portion of the unit. Be sure to aim the remote at this location.
 - 2) Check to see if the remote control contains batteries and that the batteries are installed correctly or the batteries have not expired.
 - 3) If you still have problems or malfunctions please request A/S.

A product standard and limits

Product name	LED electronic panel (with remote control)
Usage	Indoor / Outdoor
Color	Red / Green / Pure Green / Yellow
Exterior color	Black / Silver
Communication mode	Remote and PC Type
Input Rated Voltage	AC85-250V (one side color) / AC 220V (Three color)
Energy Consumption	Average energy consumption – 1Side & 1Color 20W to max 40W Average energy consumption – 1Side & 1Color 40W to max 80W
Memory use	Up to 256 Korean letters Up to 512 English letters
Power cord	AC 250V / 3A, 2M

Appendix 2

A Warranty Card

1. The unit is warranted against manufacture defects during normal use.
2. Within the guarantee period, the following will be repaired with applicable fee
 - Damage and breakdown caused by carelessness (abuse) or miss use
 - Damage caused by natural disasters
 - Damage during the installation
3. When asking for repairs, you must present a warranty card.
4. The guarantee duration is one year from the date of purchase.



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