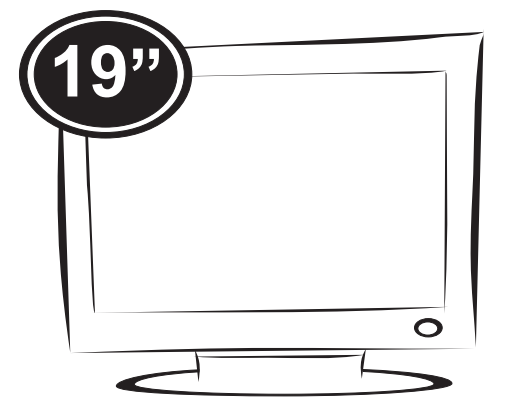


MONITOR



OWNER'S MANUAL

Please read this manual carefully before operating your set and retain it for future reference.

Important Precautions

This unit has been engineered and manufactured to ensure your personal safety, however improper use may result in potential electrical shock or fire hazards. In order to allow the proper operation of all safeguards incorporated in this display, observe the following basic rules for its installation, use, and servicing.

On Safety
Use only the power cord supplied with the unit. In case you use another power cord, make sure that it is certified by the applicable national standards. Do not use this display near water such as near a bathtub, washbasin, kitchen sink, laundry, a wet basement, or near a swimming pool.

Displays are provided with ventilation openings in the cabinet to allow the release of heat generated during operation. If these openings are blocked, built-up heat can cause failures which may result in a fire hazard. Therefore,

NEVER:

- Block the bottom ventilation slots by placing the display on a bed, sofa, rug, etc.
- Place the display in a built-in enclosure unless proper ventilation is provided.
- Cover the openings with cloth or other material.
- Place the display near or over a radiator or heat source.

Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mar, or damage the Active Matrix LCD permanently.

Do not press the LCD screen with your finger for a long time as this may cause some afterimages.

Some dot defects may appear as Red, Green or Blue spots on the screen. However, this will have no impact or effect on the display performance.

If possible, use the recommended resolution to obtain the best image quality for your LCD display. If used under any mode except the recommended resolution, some scaled or processed images may appear on the screen. However, this is characteristic of the fixed-resolution LCD panel.

Leaving a fixed image on the screen for a long time may cause damage to the screen and cause image burn-in. Make sure to use a screen saver on the product.

Burn-in and related problems are not covered by the warranty on this product.

Do not shock or scratch the front and sides of the screen with metallic objects. Otherwise, it may cause damage to the screen.

Make sure the panel faces forward and hold it with both hands to move. If you drop the product, the damaged product can cause electric shock or fire. Contact an authorized service center for repair.

Avoid high temperatures and humidity.

Important Precautions

On Installation
Do not allow anything to rest upon or roll over the power cord, and do not place the display where the power cord is subject to damage.
Do not use this display near water such as near a bathtub, washbasin, kitchen sink, laundry, a wet basement, or near a swimming pool.

Displays are provided with ventilation openings in the cabinet to allow the release of heat generated during operation. If these openings are blocked, built-up heat can cause failures which may result in a fire hazard. Therefore,

NEVER:

- Block the bottom ventilation slots by placing the display on a bed, sofa, rug, etc.
- Place the display in a built-in enclosure unless proper ventilation is provided.
- Cover the openings with cloth or other material.
- Place the display near or over a radiator or heat source.

Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mar, or damage the Active Matrix LCD permanently.

Do not press the LCD screen with your finger for a long time as this may cause some afterimages.

Some dot defects may appear as Red, Green or Blue spots on the screen. However, this will have no impact or effect on the display performance.

If possible, use the recommended resolution to obtain the best image quality for your LCD display. If used under any mode except the recommended resolution, some scaled or processed images may appear on the screen. However, this is characteristic of the fixed-resolution LCD panel.

Leaving a fixed image on the screen for a long time may cause damage to the screen and cause image burn-in. Make sure to use a screen saver on the product.

Burn-in and related problems are not covered by the warranty on this product.

Do not shock or scratch the front and sides of the screen with metallic objects. Otherwise, it may cause damage to the screen.

Make sure the panel faces forward and hold it with both hands to move. If you drop the product, the damaged product can cause electric shock or fire. Contact an authorized service center for repair.

Avoid high temperatures and humidity.

Important Precautions

On Cleaning
• Unplug the display before cleaning the face of the display screen.
• Use a slightly damp (not wet) cloth. Do not use an aerosol directly on the display screen because over-spraying may cause electrical shock.

• When cleaning the product, unplug the power cord and scrub gently with a soft cloth to prevent scratching. Do not clean with a wet cloth or spray water or other liquids directly onto the product. An electric shock may occur. Do not use chemicals such as benzene, paint thinners or alcohol.

• Spray water onto a soft cloth 2 to 4 times, and use it to clean the front frame; wipe in one direction only. Too much moisture may cause staining.

On Repacking:
• Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, re-pack it in its original material.

On Disposal:
• Do not dispose of this product with general household waste.
• Disposal of this product must be carried out in accordance to the regulations of your local authority.

Accessories

• Please make sure the following items are included with your monitor. If any items are missing, contact your dealer.

• 19-in D-Sub Signal Cable (To set it up, this signal cable may be attached to the product before shipping out.)

• Power Cord

NOTE
• The accessories may look different from those shown here.
• User must use shielded signal interface cables (D-sub 15 pin cable, DVI-D cable) with ferrite cores to maintain standard compliance for the product.

Connecting the Display

Before setting up the monitor, ensure that the power to the monitor, the computer system, and other attached devices are turned off.

Connecting the stand base (Removing the stand base)

- Place the monitor with its front facing downward on a cushion or soft cloth.
- Assemble the Stand Base into the Stand Body. Be sure don't pull out the Stop Pin and make the Stand Base direction as shown.

Positioning your display
After installation, adjust the angle as shown below.
1. Adjust the position of the panel in various ways for maximum comfort.
• Tilt Range : -5° ~ 16°

IMPORTANT!
When adjusting the angle of the screen, do not put your fingers in between the head of the monitor and the stand body. You can hurt your fingers!

Connecting the Display

3. Use a coin on the back of the stand base and turn the screw clockwise to tighten.

4. Lift and turn the monitor to face towards the front after the connection is made to the female part of the cable you're attaching.

5. When you desire to disintegrate the monitor from the stand base, use a coin to turn the screw counterclockwise.

IMPORTANT!
• This illustration depicts the general model of connection. Your monitor may differ from the items shown in the picture.
• Do not carry the product upside down holding the stand base. The product may fall and get damaged or injure your foot.

Connecting the Display

Using the Pivot function
- The pivot function allows you to rotate the screen 90 degrees clockwise.

- Lift the monitor to its highest height to utilize the Pivot function.
- Landscaped & Portrait : You can rotate the panel 90 degrees clockwise. Please be cautious and avoid contact between the monitor head and the Stand Base when rotating the screen to access the Pivot function. If the monitor head touches the Stand Base, then the Stand Base could crack.

3. Be careful with the cables when rotating the screen.

Connecting the Display

Connecting with the PC
1. Before setting up the monitor, ensure that the power to the monitor, the PC system, and other attached devices is turned off.
2. Connect signal input cable (1) and power cord (2) in order, then tighten the screw of the signal cable.
3. Connect D-sub/Analog signal Cable

NOTE
This is a simplified representation of the rear view. This rear view represents a general model; your display may differ from the view as shown.

When using a D-Sub signal input cable connector for Macintosh:
• Mac adapter: For Apple Macintosh use, a separate plug adapter is needed to change the 15 pin high density (D) D-sub VGA connector on the supplied cable to a 15 pin 2 row connector.
• Connect the signal cable and power cord to the rear of the monitor.

3. Press the power button on the front panel to turn the power on. When monitor power is turned on, the "Self Image Setting Function" is executed automatically.

NOTE
"Self Image Setting Function" This function provides the user with optimal display settings. When the user connects the monitor to the first time, the function automatically adjusts the display to optimal settings for individual input signals.

AUTO (Auto) : When you encounter problems such as blurry screen, blurred screen, screen flicker or tilted screen while using the device or after changing screen resolution, press the AUTO function button to improve resolution.

Control Panel Functions

Control Panel Functions
Controls do panel frontal

Control Panel Functions

Control	Function
1. SUPER ENERGY SAVING Button	Use this button to enter SUPER ENERGY SAVING menu. For more information, refer to page 15.
2. AUTO Button	AUTO IMAGE ADJUSTMENT: When adjusting your display settings, always press the AUTO button before entering the On Screen Display(OSD). This will automatically adjust your display image to the ideal settings for the current screen resolution (display mode). The best display mode is E1941CP: 1366 x 768
3. EXIT Button	Exit the OSD/On Screen Display.
4. Power Button & Power Indicator	Use this button to turn the display on or off. The power indicator stays white if the display is running properly (On Mode). If the display is in Sleep Mode (Energy Saving), the power indicator is blinking white.

Control Panel Functions

Control	Function
1. MENU Button	OSD LOCKED / UNLOCKED: This function allows you to lock the current control settings, so that they cannot be inadvertently changed. Press and hold the MENU button for several seconds. The message "OSD LOCKED" should appear. You can unlock the OSD controls at any time by pushing the MENU button for several seconds. The message "OSD UNLOCKED" should appear.
2. OSD LOCKER	
3. OSD UNLOCKER	

Control Panel Functions

Control Panel Functions

Control	Function
1. SUPER ENERGY SAVING Button	Use this button to enter SUPER ENERGY SAVING menu. For more information, refer to page 15.
2. AUTO Button	AUTO IMAGE ADJUSTMENT: When adjusting your display settings, always press the AUTO button before entering the On Screen Display(OSD). This will automatically adjust your display image to the ideal settings for the current screen resolution (display mode). The best display mode is E1941CP: 1366 x 768
3. EXIT Button	Exit the OSD/On Screen Display.
4. Power Button & Power Indicator	Use this button to turn the display on or off. The power indicator stays white if the display is running properly (On Mode). If the display is in Sleep Mode (Energy Saving), the power indicator is blinking white.

On Screen Display (OSD) Control Adjustment

On Screen Display (OSD) Control Adjustment

Screen Adjustment
Making adjustments to the image size, position and operating parameters of the display is quick and easy with the On Screen Display Control system. A short example is given below to familiarize you with the use of the controls. The following section is an outline of the available adjustments and sections you can make using the OSD.

To make adjustments in the On Screen Display, follow these steps:

- Press the discretionary Button, then the main menu of the OSD appears.
- To access a control, use the corresponding Buttons.
- Use the Left / Right buttons to adjust the image to the desired level. Use the Button to select other sub-menu items.
- Press the EXIT Button to exit from the OSD.

On Screen Display(OSD) Selection and Adjustment

The following table indicates all the On Screen Display control, adjustment, and setting menus.

Main menu	Sub-menu	Shortcut	Description
MENU	BRIGHTNESS	OSD	To adjust the brightness of the screen.
	ORIGINAL RATIO		To adjust the image size.
	COLOR TEMP. (PHASE) (USER)		To customize the color of the screen.
	CONTRAST		To adjust the contrast of the screen.
	LANGUAGE		To initialize the screen status for a user's operating environment.
SUPER ENERGY SAVING	ON	OSD	Turn on the SUPER ENERGY SAVING function.
	OFF		Turn off the SUPER ENERGY SAVING function.
	RESET		Initialize the SUPER ENERGY SAVING and set to "OFF" mode.

NOTE
The order of icons may differ depending on the model (12 ~ 17).

On Screen Display(OSD) Selection and Adjustment

On Screen Display(OSD) Selection and Adjustment

Main menu	Sub menu / Description
BRIGHTNESS	To adjust the brightness of the screen.
ORIGINAL RATIO	WIDE: Switch to full screen mode according to input image signal ratio to original. ORIGINAL: Change the input image signal ratio to original. * This function works only if input resolution is lower than monitor ratio (16:9).
COLOR TEMP	* PRESET: Select the screen color. * WARM: Set the screen to warm color temperature. * MEDIUM: Set the screen to medium color temperature. * COOL: Set the screen to cool color temperature. * USER: * RED: Set your own red color levels. * GREEN: Set your own green color levels. * BLUE: Set your own blue color levels. • Exit / Left / Right / Move / Select other sub-menu

On Screen Display(OSD) Selection and Adjustment

On Screen Display(OSD) Selection and Adjustment

Main menu	Sub menu / Description
CONTRAST	To adjust the contrast of the screen.
LANGUAGE	To choose the language in which the control names are displayed.
FACTORY RESET	Restore all factory default settings except "LANGUAGE". Press the Left / Right buttons to reset immediately. • Exit / Left / Move / Select other sub-menu

On Screen Display(OSD) Selection and Adjustment

On Screen Display(OSD) Selection and Adjustment

• You were introduced to the procedure of selecting and adjusting an item using the OSD system. Listed below are the icons, icon names, and icon descriptions of the all items shown on the Menu.

Press the SUPER ENERGY SAVING Button, then the main menu of the OSD appears.

Control Panel Functions

Control	Function
1. MENU Button	OSD LOCKED / UNLOCKED: This function allows you to lock the current control settings, so that they cannot be inadvertently changed. Press and hold the MENU button for several seconds. The message "OSD LOCKED" should appear. You can unlock the OSD controls at any time by pushing the MENU button for several seconds. The message "OSD UNLOCKED" should appear.
2. OSD LOCKER	
3. OSD UNLOCKER	

NOTE
OSD On Screen Display menu languages on the monitor may differ from the manual.

On Screen Display(OSD) Selection and Adjustment

On Screen Display(OSD) Selection and Adjustment

Main menu	Sub menu / Description
ON	Turn on the SUPER ENERGY SAVING function. When current setting value is ON the SUPER SAVING color is green.
OFF	Turn off the SUPER ENERGY SAVING function. When current setting value is OFF the SUPER SAVING color is gray.
RESET	Clear the TOTAL POWER REDUCTION and TOTAL CO2 REDUCTION values.

NOTE SAVING DATA(Why):

Item	Value
SUPER SAVING	3
LED SAVING	3

• Saving Data depends on the Panel. So those values should be different from each panel and panel version.
• LED Saving means that how much power can be saved using SUPER ENERGY SAVING function.
• SUPER Saving means that how much power can be more saved using SUPER ENERGY SAVING function.

TOTAL POWER REDUCTION
How much power is saved during using the monitor.

TOTAL CO2 REDUCTION
Change the TOTAL POWER REDUCTION to CO2.

On Screen Display(OSD) Selection and Adjustment

On Screen Display(OSD) Selection and Adjustment

Main menu	Sub menu / Description
ON	Turn on the SUPER ENERGY SAVING function. When current setting value is ON the SUPER SAVING color is green.
OFF	Turn off the SUPER ENERGY SAVING function. When current setting value is OFF the SUPER SAVING color is gray.
RESET	Clear the TOTAL POWER REDUCTION and TOTAL CO2 REDUCTION values.

NOTE SAVING DATA(Why):

Item	Value
SUPER SAVING	3
LED SAVING	3

• Saving Data depends on the Panel. So those values should be different from each panel and panel version.
• LED Saving means that how much power can be saved using SUPER ENERGY SAVING function.
• SUPER Saving means that how much power can be more saved using SUPER ENERGY SAVING function.

TOTAL POWER REDUCTION
How much power is saved during using the monitor.

TOTAL CO2 REDUCTION
Change the TOTAL POWER REDUCTION to CO2.

Troubleshooting

Troubleshooting

Check the following before calling for service:

No image appears

- Is the power cord of the display connected?
- Is the power indicator light on?
- Is the power indicator flickering?
- Do you see an "OUT OF RANGE" message on the screen?
- Do you see a "CHECK SIGNAL CABLES" message on the screen?

Do you see a "OSD LOCKED" message on the screen?

- Do you see "OSD LOCKED" when you push MENU button?

Display image is incorrect

- Display Position is incorrect.
- On the screen background, vertical bars or stripes are visible.
- Any horizontal noise appearing in any image or characters are not clearly portrayed.

IMPORTANT!
Check Control Panel -> Display -> Settings and see if the frequency or the resolution were changed. If yes, readjust the video card to the recommended resolution. If the recommended resolution (optimal resolution) is not selected, letters may be blurred and the screen may be dimmed, truncated or biased. Make sure to select the recommended resolution. The setting method can differ by computer and OS (Operating System), and resolution mentioned above may not be supported by the video card performance. In this case, please ask to the computer or the video card manufacturer.

Troubleshooting

Troubleshooting

Display image is incorrect

- The screen color is mono or abnormal.
- The screen blinks.
- Do you see an "Unrecognized monitor, Plug&Play (VESA DDC) monitor found" message?
- Have you installed the display driver?

• Check if the signal cable is properly connected and use a screwdriver to fasten it if necessary.
• Make sure the video card is properly inserted in the slot.
• Set the color setting higher than 24 bits (blue color) at Control Panel - Settings.
• Check if the screen is set to interlace mode and if yes, change it to the recommend resolution.
• Make sure to check if the video card supports Plug&Play function.

Specifications

Specifications

Display	E1941CP	
Size	18.5 inch	
Active Area (mm)	470	
Pixel pitch (mm)	0.300 x 0.300	
Sync/Type	Horizontal Freq. (Automatic)	30 kHz ~ 61 kHz
	Vertical Freq. (Automatic)	56 Hz ~ 75 Hz
	Input Form	Separate Sync
	Signal Input	15 pin D-Sub Connector
	Input Form	RGB Audio (21 pins 21 pins)
Resolution	Max (VESA)	1024 x 768
	Recommended (VESA)	1024 x 768
Plug&Play	Plug&Play	DDC 2B
	Power On Mode	100Hz (Pg.)
Consumption	Sleep Mode	< 0.3 W
	Off Mode	< 0.3 W
Dimensions & Weight	With Stand (mm * pos.)	44.30 * 17.44
	Height Min. (mm * pos.)	34.00 * 13.35
	Height Max. (mm * pos.)	44.80 * 17.64
	Depth (mm * pos.)	19.80 * 6.54
	Without Stand (mm * pos.)	44.30 * 17.44
Weight	Height (mm * pos.)	23.90 * 11.20
	Depth (mm * pos.)	5.5 * 2.16
	Dimensional Weight (kg)	3.4 * 1.49
	Tilt	-5° ~ 16°
	Environment	Operating Conditions
at Condition	Temperature	10 °C to 35 °C
	Humidity	10 % to 80 % non-Condensing
Storage Conditions	Temperature	20 °C to 60 °C
	Humidity	5 % to 95 % non-Condensing
Stand Base	Attached () / Detached (O)	
Power cord	Wall-outlet type	
Power Input	AC 100 ~ 240 V 50 / 60 Hz	
	0.8 A	

NOTE
Information in this document is subject to change without notice.

Specifications

Specifications

Pre-set Modes (Resolution)

Resolution	Horizontal Freq. (kHz)	Vertical Freq. (Hz)
1 720 x 400	31.468	70
2 640 x 480	31.469	60
3 640 x 480	37.500	60
4 800 x 600	37.875	60
5 800 x 600	46.875	75
6 800 x 600	49.725	75
7 1024 x 768	48.363	60
8 1024 x 768	60.123	75
* 9 1366 x 768	47.712	60

Indicator

Mode	LED Color
On Mode	Blue
Sleep Mode	Blue Blinking
Off Mode	Off

Installing the Wall mount plate

Installing the Wall mount plate

This monitor satisfies the specifications of the Wall mount plate or the interchangeable device.

After moving the product to face downward, make sure to place it on a soft cloth or a cushion to avoid surface damage.

Separate the head and the stand with the use of a screwdriver.

Installing the Wall mount plate

Installing the Wall mount plate

3. Install the Wall mount plate.

Wall mount plate (Separate purchase)
This is stand-type or wall mount type and is connectable with Wall mount plate. Refer to the installation guide for more details, which is provided when Wall mount plate is purchased.

Screw Mounting Interface
Hole spacing: 75 mm x 75 mm

NOTE
VESA compatible only with respect to screw mounting interface dimensions and mounting screw specifications. Please use VESA standard screws (M4 x 8 mm and under (3/16" x 1/2") Wall Mount Plate Thickness: 2.4 mm * Screw: 4.2 mm x P#6.3 1/2 mm x Length: 10 mm * 7.6 x 4 mm and above (3/16" x 1/2")
* Please use VESA standard wall mount pad and screws.

Regulatory Information

Regulatory Information

FCC Compliance Statement
This equipment has been tested and found to comply within the limits of a Class B digital device pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment on and off), the user is encouraged to try to correct the interference by using one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's (or your) authority to operate the equipment. Only proprietary digital input/output devices, terminals, printers, etc.) certified to comply with the Class B limits may be attached to this monitor. Operation with non-certified peripherals is likely to result in interference to radio and TV reception. Only shielded signal cables may be used with this System.

NOTE
The regulations are applied only to the products with the ID LABEL indicating specific requirements.

Canadian DOC Notice
This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations. Cet appareil numérique de la classe B est certifié pour respecter toutes les exigences du Règlement sur le matériel brouilleur du Canada.

NOTE
The regulations are applied only to the products with the ID LABEL indicating specific requirements.

Note

Note

• Information in this document is subject to change without notice.