digimate™

27" HD Ready LCD TV

DGL2700

User's Manual

WARNING:

This equipment has been tested and found to comply with the limits for 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 off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and 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 with the FCC Rules could void the user's authority to operate this equipment.

IMPORTANT SAFEGUARDS

1. READ INSTRUCTIONS
All the safety and operating instructions should be read before the unit is operated.
2. RETAIN INSTRUCTIONS
The safety and operating instructions should be retained for future reference.
3. HEED WARNINGS
All warnings on the unit and in the operating instructions should be adhered to.
4. FOLLOW INSTRUCTIONS
All operating and use instructions should be followed.
5. CLEANING
Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning the exterior cabinet only.
6. ATTACHMENTS
The manufacturer of this unit does not make any recommendations for attachments, as they may cause hazards.
S3126A
PORTABLE CART WARNING
(symbol provided by RETAC)
7. WATER AND MOISTURE
Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
8. ACCESSORIES
Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit.
8A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
9. VENTILATION
Slots and openings in the cabinet back or bottom are provided for ventilation, and to ensure reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

PORTABLE CART WARNING
(symbol provided by RETAC)

S3126A

10. POWER SOURCES

This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

11. GROUNDING OR POLARIZATION

This unit is equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug, if your unit is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

12. POWER-CORD PROTECTION

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. LIGHTNING

To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

14. POWER LINES

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such

power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

15. OVERLOADING

Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.

16. OBJECT AND LIQUID ENTRY

Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

17. OUTDOOR ANTENNA GROUNDING

If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

18. SERVICING

Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. DAMAGE REQUIRING SERVICE

Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
a. When the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the unit.
c. If the unit has been exposed to rain or water.
d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
e. If the unit has been dropped or the cabinet has been damaged.
f. When the unit exhibits a distinct change in performance, this indicates a need for service.

20. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
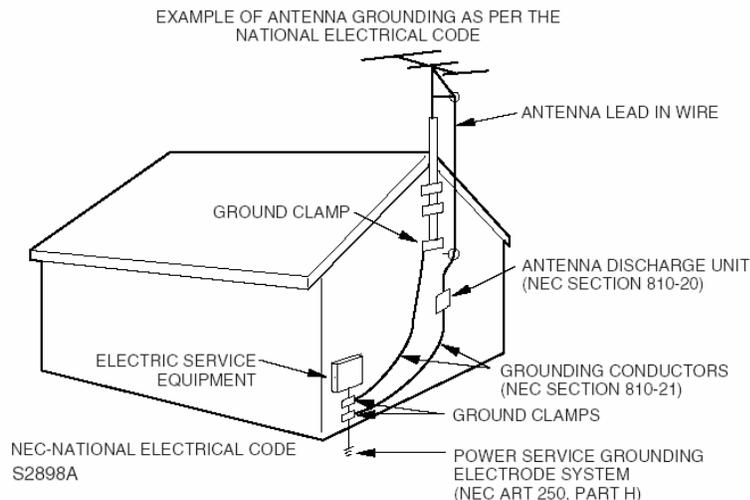
21. SAFETY CHECK

Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

22. HEAT

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

23. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

EXAMPLE OF ANTENNA GROUNDING AS PER THE
NATIONAL ELECTRICAL CODE

ANTENNA LEAD IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT
(NEC SECTION 810-20)

ELECTRIC SERVICE
EQUIPMENT

GROUNDING CONDUCTORS
(NEC SECTION 810-21)

GROUND CLAMPS

NEC-NATIONAL ELECTRICAL CODE
S2898A

POWER SERVICE GROUNDING
ELECTRODE SYSTEM
(NEC ART 250, PART H)

Conformity and Compliance

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This device 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 device does cause harmful interference to radio or television reception (this can be determined by turning the device off and on), you are encouraged to try to correct the interference by 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:

To comply with the limits for an FCC Class B computing device, you should use the shielded signal cord and power cord supplied with this unit. The Federal Communication Commission warns that changes or modifications of the unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Radio Frequency Interference Statement

Warning:

This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Canadian Doc Notice for Class B Computing Devices

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulation of the Canadian Department of Communications.

CE Marking Declaration of Conformity

The LCD display complies with the requirements of related European standards, which include:

- Emission: EN 55022, EN 61000-3-2, EN-61000-3-3
- Immunity: EN 50082-1
- Safety: EN 60950 Low-Voltage Directive (73/23/EEC)

$$C \ E$$

WARNING! Important Precautions

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

TO PREVENT POSSIBLE DANGER, ELECTRIC SHOCK, AND OTHER INJURIES WHEN HANDLING YOUR DISPLAY, PLEASE BE AWARE OF ALL WARNINGS AND SAFETY PRECAUTIONS AS CONTAINED BELOW.

Never Insert anything into the LCD Display!!

- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts.
- Never spill liquid of any kind on the LCD Display.

Do not attempt to service the LCD Display yourself

- Opening or removing the covers of LCD Display may expose you to dangerous voltages and other hazards. Refer all servicing to qualified service personnel.

Do not touch your LCD Display and antenna during thunderstorms

- Unplug the LCD Display during thunderstorms or if it is not going to be used for an extended period. Failure to do so may result in electric shock or fire.

ATTENTION!!

- Unplug the Display from the wall socket before cleaning.
- Use a damp cloth for cleaning.
- Do not use liquid or aerosol cleaners.

Good ventilation is required

To ensure reliable operation of the product and to protect it from overheating, the ventilation must not be blocked or covered.

- Do not place the LCD Display in a cramped and inadequately ventilated place.
- The LCD Display should be at least 10 cm clear of the wall or furniture and that the ventilation is always kept clean.
- Do not place the LCD Display upside down at any time.
- The operating temperature for this display is 5~35° C, storage temperature is 0~60C.

Important Safety Instructions

Read these instructions carefully and save them for future reference.

1. Follow all warnings and instructions marked on the LCD Display.

2. Except as explained elsewhere in this manual, do not attempt to service the LCD Display yourself. Opening or removing covers might expose you to dangerous voltage points or other risks. Refer all servicing of marked components to qualified personnel.

3. Unplug the LCD Display from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a water-moistened cloth for cleaning.

4. Do not use the LCD Display near water.

5. Do not place the LCD Display on an unstable cart, stand or table. If the product falls, it could be seriously damaged.

6. The LCD Display should be operated from the type of power indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.

7. Do not allow anything to rest on the power cord. Do not locate the LCD Display where people will walk on the cord.

8. If an extension cord is used with the LCD Display, make sure that the total ampere rating of the equipment plugged into the extension cord does not exceed the extension cord ampere rating. Also, make sure that the total rating of all products plugged into the wall outlet does not exceed the fuse rating.

9. If the LCD Display does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions, since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the LCD Display to normal condition.

10. Use only the proper type of power supply cord set (provided in your accessories box) for this the LCD Display.

11. **Power source:** (for 27" models)

    ◆ **Manufacturer:** FSP

    ◆ **Type:** FSP180-3M02

    ◆ **Rating:** 1.5A, AC 100-240V, 50-60Hz

NOTES:

◆ Read all safety and operating instructions before operating your new LCD Display.

◆ To ensure good ventilation, the LCD Display should be at least 10 cm clear of the wall or furniture and that the ventilation is always kept clean.

◆ For this Display set, the ideal operating temperature is 5 ~ 35 °C and storage temperature is 0 ~ 60 °C.

Table of Contents

Introduction

Thank you for purchasing the DIGIMATE DGL2700 display set. This LCD display can be used either as a television or as a computer monitor. With its multiple input options, you can connect almost any device (e.g. VCRs, DVD players and game consoles) to this display. You can also connect your display to a stereo system. Connect a powered subwoofer to experience the ultimate in home entertainment. This manual has been designed to help you install and operate your display properly. We recommend that you read it thoroughly.

Features

- Supported resolution of WXGA model: 1280x720 pixels
- Wide viewing angle
- Smart picture available
- Analog TV tuner
- PIP/PBP available
- Windows 95/98/2000/XP Plug & Play Compliant
- Versatile, functional & user friendly OSD
- Plug and Play: Conforms to the VESA standards and supports the DDC 2B specifications

Getting Started

Unpacking the Package

Before unpacking your LCD Display, prepare a suitable workspace. Provide a steady, level and clean surface near an electrical wall outlet. Set the LCD Display box in an upright position and open from the top of the box before removing the right/left cushions. When opening the box of your LCD Display, make sure not to damage the box, as you may need to keep it and all packing materials for future shipping needs.

When unpacking the box, make sure the following components are included in the box and are in good condition. If you find that any of these components are missing or appear damaged, please contact the system dealer immediately.

Standard Accessories

User's Manual x 1	**Remote Control x 1**	**AAA Battery x 2 (for remote control)**
VGA Cable x 1	**Power Cord x 1**	**Audio Cable x 1**

Location and Function Controls

Front View
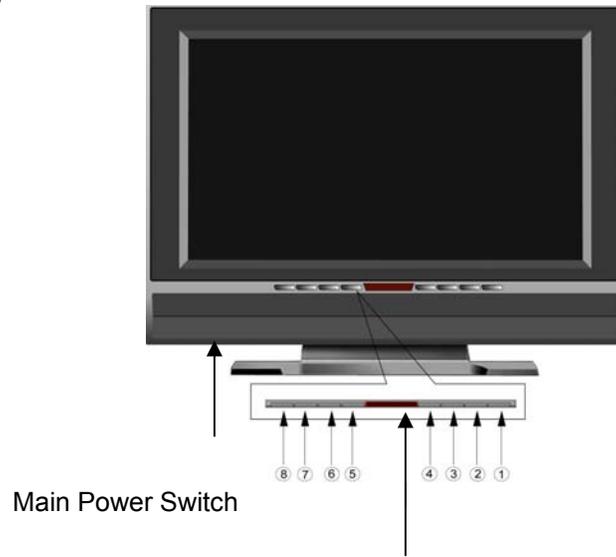
Main Power Switch

Front Buttons

LED indicator
Green: Display is turned on.
Red: Standby mode or no signal.

#	Button	Description
1	POWER	Press to turn the display on/off after turning On the main power switch located on the lower back panel, next to the AC Cord terminal.
2	SOURCE	Press to go through all the available input sources.
3	MENU	Press to open the OSD menu of your Display.
4	ENTER	Press to select an item, exit a function in the OSD menu or confirm a setting.
5/6	CH▼/▲	Press to select the channel or select items in OSD menu.
7/8	VOL►/◄	Press to adjust the volume, select OSD items and adjust the menu items.

Rear View, Side View and Bottom View

Use Y1Pb1Pr1 / Y2Pb2Pr2, AV, or S-video to connect the VCR, DVD or the Video Game.

ANT

Connect the power supply

Connect the coaxial cable or antenna

Audio cable connects to PC audio.
VGA cable connects to VGA card.
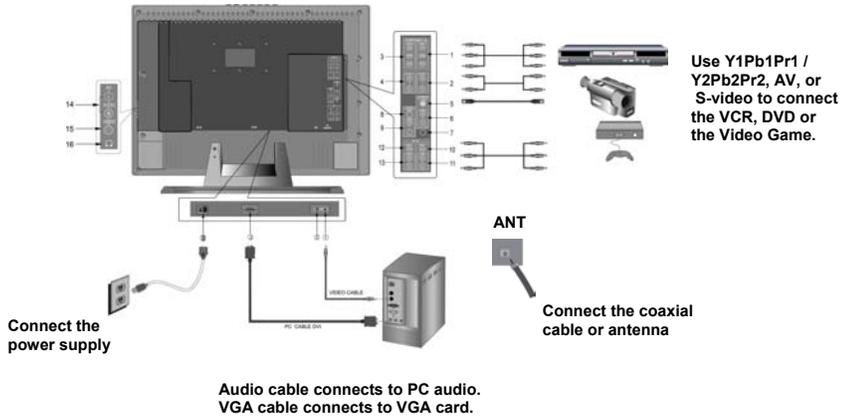
Side View

#	Jack	Description
1	**Y1Pb1Pr1**	**Video Component1** Input terminal accepts video signal from a Component Video Source (INTERLACED only)
2	**Y1Pb1Pr1 Audio**	L&R Audio input corresponding with Video **Component1**
3	**Y2Pb2Pr2**	**Video Component2** Input terminal accepts video signal from a Component Video Source (PROGRESSIVE SCAN or INTERLACED)
4	**Y2Pb2Pr2 Audio**	L&R Audio input terminals corresponding with Video **Component2**
5	**S-video**	Connect the Audio output terminal cable from the video output device here.
6	**S-video Audio**	L&R Audio input terminals corresponding with S-Video source.
7	**Sub-woofer**	Provides a dedicated Sub output signal to drive an external Powered Subwoofer (optional)
8	**Video out**	Provides a Video output signal. *(Video output is available only from; AV1, AV2, AV3 and TV sources)*
9	**Audio out**	Connect the audio output terminal cable from your Display to the input terminal of the audio device. **(The audio output sources are AV1, AV2, AV3, TV)**
10	**AV 1 in**	To connect the AV1 Video source.

#	Jack	Description
11	**AV 1 audio in**	To connect the Audio corresponding to AV1 source
12	**AV 2 in**	To connect the AV2 Video source.
13	**AV 2 audio in**	To connect the Audio corresponding to AV2 source
14	**AV 3 audio in**	To connect the Audio Corresponding to AV3 source
15	**AV 3 in**	To connect the AV3 Video source.
16	**Headphone**	Provides L&R Audio output to connect a set of headphones.

Bottom View

#	Jack	Description
1	**PC Audio**	Accepts the Audio signal from your PC or Laptop.
2	**ANT**	Connect the coaxial cable (75 Ohm) or antenna here.
3	**D-sub**	Connects to D-sub 15 pin analog RGB Video from your PC or Laptop.
4	**AC in**	Connect the power cord supplied to this terminal and then turn on the Main Power switch right next to power cord terminal.

REMOTE CONTROL

BATTERY INSTALLATION
Slide the battery compartment cover.
Install two "AAA" batteries (not supplied), paying close attention to the + / - polarity diagram in the battery compartment.
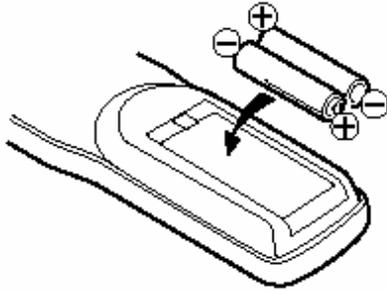
Replace the compartment cover.

BATTERY PRECAUTIONS
The precautions below should be followed when using batteries in this device:
1 Use only the size and type of batteries specified.
2 Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device.
3 Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
4 If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
5 Do not try to recharge batteries not intended to be recharged; they can overheat and rupture (Follow battery manufacturer's directions).

## EFFECTIVE DISTANCE OF THE REMOTE CONTROL

15 FEET
30° 30°
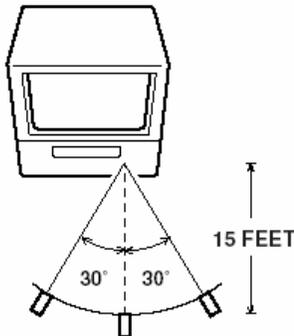
NOTES:
• When there is an obstacle between the TV/VCR and the remote control, the remote control may not operate.
• When direct sunlight, an incandescent lamp, fluorescent lamp or any other strong light shines on the Remote sensor of the TV, the remote operation may be unstable.

POWER SOURCE
Use the AC line cord provided for operation on AC. Insert the AC cord plug into a standard 120V 60Hz grounded AC outlet.

NOTES:
• Never connect the AC line cord plug to anything other than the specified voltage (120V 60Hz). Use the attached power cord only. • If the polarized AC cord does not fit into a non polarized AC outlet, do not attempt to file or cut the blade. It is the user's responsibility to have an electrician replace the obsolete outlet.

AC Outlet
Wider Hole and Blade
Polarized AC Cord Plug (One blade is wider than the other)
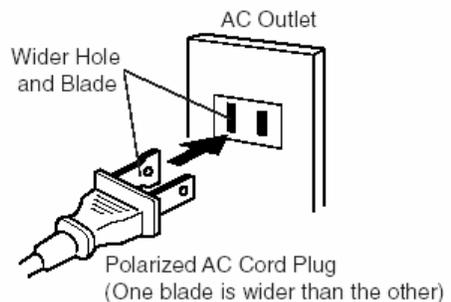
Using the Remote Control

The remote control can be used to control every aspect of the display's operation and provides ease-of-use of the LCD Display:

Button	Description
⏻	Power On / Off (standby) after turning on the main power switch.
DISPLAY	Displays the current information such as channel, etc.
SCAN	Go to the TV menu directly.
SOURCE	Cycle through input sources: TV → AV1 → AV2 → AV3 → S-Video → YPbPr1 → YPbPr2 → VGA →. Also the source key for main source under PIP/PBP mode.
TV	Switch source directly to TV mode.
MUTE	Turn the speakers On or Off.
MTS	Selects the TV audio Mode; MONO → STEREO → SAP
SOUND	Select the sound enhancement mode: On or Off.
PICTURE	Adjust display color: Hi-Bright, Cinema, Sport, Vivid or User.
SLEEP	Set the sleep timer to power off; Off, 30, 60, 90, or 120 minutes.
Numbers	Selects TV channel directly by the numbers.
↱ **(Recall)**	Return to the previous channel.
↵ **(Enter)**	Pres to confirm the channel you have selected by using number keys.
MENU	Press to access the OSD menu.
ZOOM	Toggle between 4:3 and Full (16:9) displays.
CH ▲▼	Press to tune channels UP / DOWN.
VOL ◄►	Controls the volume level UP / DOWN.
ENTER	Confirm the adjustment or the selected item.
PIP	Activate the PIP/PBP function. (picture-in-picture)
SOURCE	Selects the Sub Screen source during PIP/PBP modes.
POSITION	When the PIP mode is activated, use for adjusting the position of the minor screen.
SWAP	Switches sources of the main and sub screens when PIP/PBP mode is activated
FREEZE	Freeze either the picture of the screen directly (except VGA mode) or the "Activated screen" in PIP/PBP modes; press this button again to release "freeze" function. (see details in PIP/PBP function).
V-CHIP	Press to open the V-chip menu. A password is required to access the menu.
C.C.	Turns Closed Caption On/Off. (U.S. area only)

Installation

Installing your Display

Step 1. Positioning the Display set

Place your LCD Display set on a solid and stable surface. To avoid malfunctions, do not expose the LCD Display to water or a heat source and do not obstruct the ventilation grid at the back of the LCD Display.
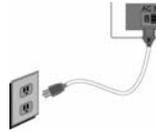
Step 2. Connecting the aerials

Use for connecting the 75 Ohm antenna or coaxial cable to the TV Tuner terminal situated on back panel.

Antenna or coaxial cable

Step 3. Connecting the power cable

Plug the power cord into the wall socket then switch on the Main Power Switch. (located on back)

Step 4. Remote control

Insert the two AAA/UM4-type batteries supplied making sure that the +/ - polarities are properly connected.

6 m (19 feet)

ANTENNA CONNECTIONS

If you are using an indoor or outdoor antenna, follow the instructions below that correspond to your antenna system. If you are using a cable TV (CATV) see "CABLE TV CONNECTIONS".

Combination VHF/UHF Antenna (Single 75 Ohm cable or 300 Ohm twin-lead wire)
Connect the 75 Ohm cable from the combination VHF/UHF antenna to the Antenna Jack.
If your combination VHF/UHF antenna has a 300 Ohm twin-lead wire, the use of the 300-75 Ohm Matching Transformer may be necessary. Connect the VHF 75 Ohms cable and UHF 300 Ohm.
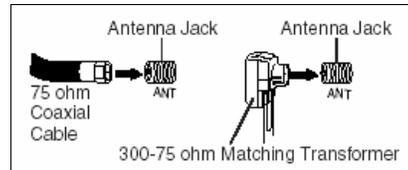
CABLE TV CONNECTIONS

This TV has an extended tuning range and can tune most cable channels without using a Cable TV converter box. Some cable companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the cable company.

FOR SUBSCRIBERS TO BASIC CABLE TV SERVICE
For basic cable service not requiring a Converter Descrambler box, connect the CATV 75 Ohm Coaxial Cable directly to the Antenna Jack on the side of the TV.
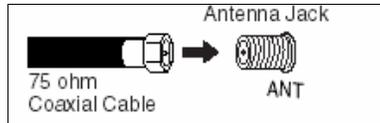
FOR SUBSCRIBERS TO SCRAMBLED CABLE TV SERVICE
If you subscribe to a cable TV service which requires the use of a Converter/Descrambler box, connect the incoming 75 Ohm Coaxial Cable to the Converter/Descrambler box. Using another 75 Ohm coaxial cable, connect the output jack of the Converter/Descrambler box to the Antenna Jack on the TV. Set the TV to the output channel of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.
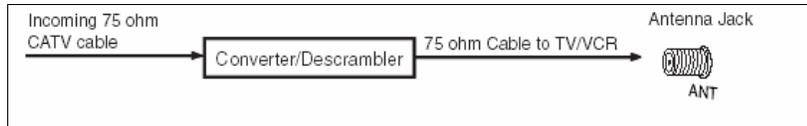
Connecting to different Sources/Devices

Video System

This display supports various input devices including component, composite and S-Video. To learn how to connect these devices to the display, consult your device's manual.

Audio System

Connect your display to a stereo system to enhance your viewing experience.

To connect the display to an audio system, connect one end of the RCA cables to the input blocks of your stereo system then connect the other end to the audio output blocks of the display.

If you have a powered subwoofer (optional), use another RCA cable to connect the subwoofer to the display.

Computer

To use the display as your computer's monitor, use the supplied VGA cable to connect the display to your computer.

Setting up the Display

The integrated OSD menu lets you set up options for your LCD Display. When you turn on the display for the first time, you need to set up certain options first.

Auto Search/ANTENNA or CATV (cable)

Auto Search lets you scan for all available viewable channels from your antenna or cable TV system.

- Press **MENU** then press ► 3 times to select **TV** [icon] sub menu.

- Press ▼ to highlight **TUNER MODE** then press **ENTER**.

- Select the source you want to scan; CABLE or ANTENNA.

- Select AUTO SEARCH and then press ENTER. The display starts scanning for available viewable channels.

NOTE: You can press **MENU** at any time to stop the auto scan function.

Once auto scan is completed, all non-viewable channels will be skipped during Up / Down tuning.

9

Channel Skip Programming

Use **Channel Skip** to set which channels you may want to skip when tuning Up or Down using the ▲▼ channel buttons on the remote control.

- Press **MENU** then press ► 3 times to go the **TV** [icon] page of the menu.

- Press ▼ to highlight the third item **Channel Skip** then press ►.

- Use ▲▼ to select the channels you want to skip. Every time you get to a channel you want to skip, press **ENTER**. A check mark appears beside the channel number that has been marked skipped.

Tips: To unskip a channel, select the channel that is skipped then press **ENTER**.

Channel Name

Use **Channel Name** to name a desired channel.

- Press **MENU** then press ► 3 times to go the **TV** [icon] page of the menu.

- Press ▼ to highlight the third item; **Channel Name** then press ►.

- Type in a name for the selected channel. This appears beside the channel number on screen.

Blue Mute

Use **Channel Skip** to set the blue mute on or off.

- Press **MENU** then press ► 3 times to go the **TV** [icon] page of the menu.

- Press ▼ to highlight the third item; **Blue Mute** then press ►.

- Set **Blue Mute** to **ON** to display a blue background on screen when there is no signal detected.

10

Using the Display

Basic Operation

Turning the Power On/Off

Press **POWER** to turn on the LCD Display. The power indicator changes from red to green. When the power is off, the power indicator changes from green to red.

Selecting the Source

Press **SOURCE** to select the input signal. Each time the **SOURCE** is pressed, the on-screen display will cycle through the different sources that are supported by the device. There are 8 sources are supported: **TV**, **AV1**, **AV2**, **AV3**, **S-Video**, **YPbPr1**, **YPbPr2** and **VGA**.

TV Button

Switches directly to TV mode.

Adjusting the Volume

Press ▶ on the remote control to increase the volume. Press ◀ to decrease the volume.

Changing Channels

Press ▲ or ▼ to tune channels Up or Down. Press ▲ to go to the next channel or ▼ to go to the previous channel. You can also use the number keypad to select the channel you want to watch. After you have chosen the channel, press ↵ to directly tune to the specified channel.

Displaying the Menu

Press **MENU** to open/close the menu. Use ▼/▲ to navigate and select the item on the main menu. Press **ENTER** to go into the submenu then use ◀ and ▶ to adjust the settings.

Navigating OSD Menu Settings

Open the OSD menu to access the various settings for your LCD Display. Some basic operations when using the OSD menu include:

- Press **MENU** to open the OSD menu, use ◀ / ▶ to select the different options in the sub menu
- Use ▲ / ▼ to scroll through the options in the submenu and press **ENTER** to confirm the setting; the "∨" sign will be shown on the right of the option after your confirmation.
- Use ◀ / ▶ to adjust the bar setting to preferable level in the sub menu, press **MENU** to return to OSD menu.
- After confirming the settings, press ◀ to go back the upper level of OSD menu.
- Press **MENU** again to exit the current OSD menu.

Main Menu

There are five main items in the OSD Menu.

| Video | Audio | Miscellaneous | TV | PC |
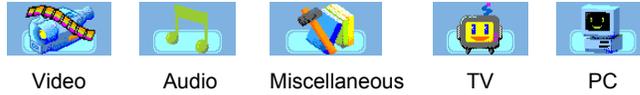
1.   **Video menu (Available for TV and Video modes)**
2.   **Audio menu (Available for TV, Video and PC modes)**
3.   **Miscellaneous menu (Available for TV, Video and PC modes)**
4.   **TV menu**
5.   **PC menu (Available for VGA modes)**

In TV mode

Press **MENU** on the remote control and the OSD menu will be displayed.

Note: In TV mode, **PC** menu is disabled.

In Video mode (AV, S-Video and YPbPr)

Press **MENU** on the remote control and the OSD menu will be displayed.

Note:

1. In this mode, **PC** and **TV** menus are disabled.

2. De-interlacing is activated automatically in this mode and no need to select

De-interlacing ON or OFF in OSD MENU.

In PC mode (VGA)

Press **MENU** on the remote control and the OSD menu will be displayed.

Note: In this mode, **Video** and **TV** menus are disabled.

Video Menu

Video settings:

- **Contrast:** Choose higher values to create higher contrast.
- **Brightness:** Choose higher values to make the video brighter.
- **Saturation:** Choose higher values to make the colors more saturated.
- **Hue:** Adjust the color intensity.
- **Sharpness:** Choose higher values to make the colors more sharp.
- **Flesh Tone:** Turn on to make people's skin color to the better.
- **Color Temperature:** Select from Cool, Normal or Warm. Choose User to customize the RGB settings yourself.

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Audio Menu

Audio settings:

- **Bass:** Adjust the level of low frequency content in the sound.

- **Treble:** Adjust the level of high frequency content in the sound.

- **Balance:** Adjust the output of the R/L speakers to obtain the best stereo reproduction.

- **Surround:** Enable/disable the surround effect.

- **Equalizer 1/2:** Choose from a variety of preset audio equalizer settings. The available settings for equalizer 1 are: **Church**, **Arena**, **Cave**, **Bathroom**, **Hall**, **Living Room**, and **Concert**. The available settings for equalizer 2 are: **Soft**, **Classic**, **Techno**, **Dance**, **Live**, **Pop,** and **Rock**.

- **MTS:** Select the MTS (Multi-channel Television Sound) TV audio system. You can select from: Mono, Stereo or SAP (Secondary Audio Programming).

- **Speakers:** Turn the speaker On/Off.

Miscellaneous Menu

Miscellaneous settings:

- **Language:** Choose the language you want to use for the OSD menu settings.

- **Timer:** You can set the display to automatically turn on/off at a certain time. You can also set which channel the display goes to when it turns on.

- **Sleep Time:** Set how long before the display automatically turns itself off.

- **OSD Timeout:** Set how long before the OSD menu disappears when no action is taken.

- **Format:** Choose the aspect ratio of the display. You can choose from 4:3 and Full (16:9).

- **Closed Caption:** Closed caption is a system which allows you to read the voice content of television programs on the TV screen to help the hearing impaired. Choose the appropriate closed caption setting.

- **PIP:** Let you watch video from 2 different sources. Choose the Mode and Position for the PIP function. See *"PIP/PBP function"* for more information.

- **V-Chip & Parental:** Let you block TV channels that you deem inappropriate for viewing. A password can be set for this function. See *"Parental Controls"* section.

- **All Reset:** Select to reset all the settings back to default factory values.

TV Menu

TV settings:

- **Auto Search:** Select to scan for available viewable channels from your video source.
- **Tuner Mode:** Select the video source.
- **Channel Skip:** Lets you specify channels that you want skipped when you are using the ▲CH / ▼CH buttons on the remote control.
- **Channel Name:** Lets you type in a name for the channel. This appears beside the channel number on screen.
- **Blue Mute:** Set to **ON** to display a blue background on screen when there is no signal detected.

PC Menu

PC settings:

- **Contrast:** Choose higher values to create higher contrast.
- **Brightness:** Choose higher values to create higher brightness.
- **Color Temperature:** Select from **Cool**, **Normal** or **Warm**. Choose **User** to customize the RGB settings yourself.
- **Auto Setting:** Select to automatically configure the display settings.
- **Phase:** Set to **ON** to reduce the horizontal flickering on the screen (VGA mode only).
- **Manual Clock:** Set to **ON** to reduce the vertical flickering on the screen (VGA mode only).
- **Display Adjustment:** Select to adjust the horizontal and vertical position of the picture (VGA mode only).

PIP (Picture-In-Picture)/PBP (Picture-by-Picture) Function

PIP/PBP function lets you watch video from two different sources simultaneously. You can easily control the PIP/PBP function by using the keys on the remote control as below:

Button	Description
(PIP)	Activate the PIP function. Off → PIP → PBP
SOURCE	Used to cycle the sub screen's source. You need to press this key to highlight the screen and let it become pink first, then press it again to cycle the source.
POSITION	Adjust the position of minor screen.
SWAP	Swap the sources of main and sub screens.
FREEZE	Freeze the activated screen except VGA source; press this button again to release "freeze" function.

Operation Modes

| PIP mode | PIP position | PIP- Swap | PBP- Swap | Freeze the activated screen |
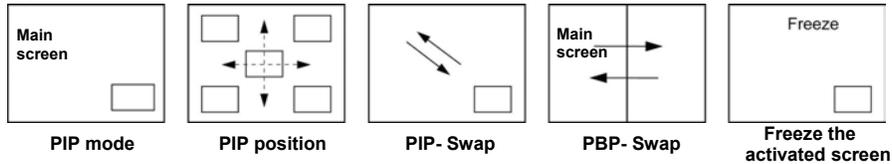
Notes for PIP/PBP modes:

1. **Activated screen:** Screen with a pink border after been activated by pressing main or sub MENU keys; **Inactivated screen:** Screen with blue border. The OSD Menu and function keys are only available for the activated screen.
2. During PIP/PBP modes, the hot key-**TV** on the remote controller is not available.
3. Main and sub source keys are used to cycle different sources of main and sub screens separately. You need to press the main or sub source keys to highlight the main or sub screens and let it become pink first, then press it again to cycle the source.
4. The Display format cannot be changed under PIP/PBP modes. Also, when you are in the **4:3** display format, you cannot use the PIP/PBP modes.
5. You can also activate PIP/PBP function by going to the Menu of PIP. The submenu of PIP position in OSD Menu can be also used to control the position of the sub screen.
6. De-interlacing is activated automatically on the Main screen for Video sources In PIP/PBP mode.

PIP/PBP Structure

PIP/PBP		Sub Screen							
		TV	AV1	AV2	AV3	S-Video	YPbPr1	YPbPr2	VGA
Main Screen	TV		•	•	•	•	•	•	•
	AV1	•		•	•	•	•	•	•
	AV2	•	•		•	•	•	•	•
	AV3	•	•	•		•	•	•	•
	S-Video	•	•	•	•				
	YPbPr1	•	•	•	•				
	YPbPr2	•	•	•	•				
	VGA	•	•	•	•				

Parental Controls

Closed Caption

Closed caption is a system which allows viewers to read the voice content of television programs on the TV screen to help the hearing impaired. This feature uses onscreen text boxes to show conversation and dialogue while the program is in progress. **Captions** are the printed text version of the conversation, narration and/or sound effects of the program you are watching. Usually, **C1** is the most used while **C2** may be used for alternate languages. **Text** is information that is not related to the program you are watching. Usually, text is used for channel guides, schedules, bulletin board information for Closed Caption programs. Captions and Text appear at the bottom of the screen.

CC Control

Using the remote control

Press **C.C.** on the remote control and the closed caption OSD menu will show on the screen. You can either choose from captions or text.

Using the OSD menu

1. Open the Closed Caption OSD menu by pressing **C.C.** on the remote control.

2. Press **C.C.** repeatedly to cycle through the different available Closed Caption options. **C1** to **C4** are the available caption options while **T1** to **T4** are the available text options.

3. The on screen text boxes will show at the bottom of the TV screen.

Caption mode - BOX example

Text mode - BOX example: The TV screen will be blocked

Note: Not all programs, videos and commercials are broadcasted with closed caption.

V-Chip

Television sets (U.S. only) come with V-Chip to block TV programming based on its rating. The V-chip feature automatically blocks TV programs and movies based on violence, sex, or other content you may believe inappropriate for children.

Using the remote control

Press **V-CHIP** on the remote control then enter the password* to show the V-Chip OSD menu. Use the ▼/▲ and ◄/► buttons on the remote control to select items in the menu. To go back to the main menu, press **MENU**.

Note: The default password is **1234**.

Block MPAA Rating

The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. You can block the categories by the following steps, and If you have blocked the rating, you will receive a rating message on the screen when you select the blocked program.

1. Select **Block MPAA Rating** and press **ENTER**.

2. Use ▼/▲ and select the categories to block.

Note: The V-Chip will automatically block certain categories that are "more restrictive". If **R** category has been blocked, then **NC-17 and X** will also be automatically blocked.
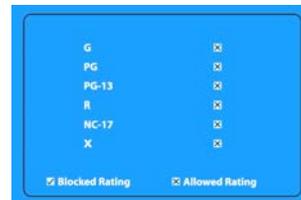
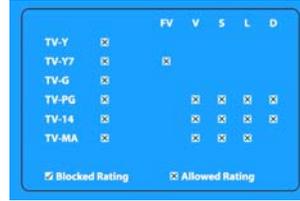| MPAA Rating	
G	General audiences. (All ages admitted)
PG	Parental guidance suggested. (Some material may not be suitable for children)
PG-13	Parents strongly cautioned. (Some material may be inappropriate for children under 13)
R	Restricted. (Under 17 requires accompanying parent or adult guardian.)
NC-17	No one 17 and under admitted.
X	Adults only. No one under 17 admitted.

Block TV Rating (Parental Guideline)

USA V-Chip Rating System

V-chip reads the program's age-based rating. If you have blocked the rating, you will receive a rating message on the screen while you select the blocked program.

1. Select **Block TV Rating** and press **ENTER**.

2. Use ▼/▲ and ◄/► select the categories to block.

Notes: The V-Chip will automatically block certain categories that are "more restrictive". If **TV-14** category has been blocked, then *TV-MA* will also be automatically blocked.

TV P.G. Rating		
TV-Y	All children.	None.
TV-7	Directed to children 7 years and older.	The rating of F. Violence can be blocked.
TV-G	General audience.	None.
TV-PG	Parental guidance suggested.	The rating of Violence (**V**), Sexual Contents (**S**), Foul Language (**L**) and/or Suggestive Dialog (**D**) can be blocked.
TV-14	Parents strongly cautioned.	
TV-MA	Mature audience only.	The rating of Violence (**V**), Sexual Contents (**S**) and/or Foul Language (**L**) can be blocked.

Channel Lock

Choose the channel you want blocked. This prevents viewers from watching this channel.

Change Password

To change the V-Chip settings, you need to enter the correct password to be able to access the menu. To change the password, select **Change Password** in the menu.

Clear all

Clear all block settings for MPAA, TV, Channel and Video and get back to default setting.

Troubleshooting

Read the manual thoroughly to operate the Display properly. If the problem persists and you cannot correct the problem, stop using the Display and contact your dealer or the nearest service center for further assistance.

SYMPTOMS	CHECK ITEMS
No picture a) Power indicator does not light up.	◆ Make sure the power cord is firmly plugged in the socket. ◆ Make sure the power switch is turned on. ◆ Make sure the AC socket has power. ◆ Check if the remote control if it works and the batteries still have power.
No picture b) Power indicator is green.	◆ Make sure the Display is ON ◆ Check if the signal cable is properly connected. ◆ Increase the **Contrast** and/or **Brightness**.
No picture c) Power indicator is red.	◆ The Display is on power saving mode, press a key on the keyboard or move the mouse. ◆ Make sure the Display is ON. ◆ Make sure the signal cable is properly connected.
Unclear picture, Noise	◆ Make sure the TV signal is received or cables are properly connected.
No Sound	◆ Make sure the audio cables are properly connected. ◆ Make sure that a headphone is not connected. ◆ Make sure **Mute** is not set. ◆ If picture is received, adjust the TV system setting correctly.
Display is too dark or too bright.	◆ Lower the **Contrast** and **Brightness** from the OSD or input device.
Display is not in the center.	◆ Adjust the image position using H-position or V-position in OSD.
Display vibration.	◆ Check if the power voltage is within the specifications. ◆ Check if the signal cables are properly connected.
After-image remains after turning TV off.	◆ This is a characteristic of a liquid crystal display (LCD), it is not a malfunction and will disappear after a few minutes.
Distorted image.	◆ Make sure the aspect ratio is set properly.
Purple image	◆ Check if the Proper signal type option is set: Component or RGB.
Out of Range	◆ Check if the input signal is supported by the Display.

SYMPTOMS	CHECK ITEMS
Green, red, blue, white dots on screen	◆ This is a characteristic of a liquid crystal display (LCD), it is not a malfunction and will disappear after a few minutes.
Remote control cannot work	◆ Make sure that the battery has power and that the orientation (+/-) of the batteries are correct. ◆ Remove any obstacles between remote control and Display. ◆ Check if a button is stuck/depressed. ◆ Make sure that the distance of the remote control from the Display is reasonable (6 meters/19 feet).
Lost password for parental control	◆ User must select the submenu **Change Password** in the V-Chip menu and enter the master password: **3609**. You can set a new password for confirmation. All old settings in V-Chip menu will not be changed. ◆ Call the service center for the master password.

Other information

Support Timing for PC

Resolution		Analog		
		Horizontal Frequency	Vertical Frequency	VESA Standard
VGA	640 x 480	31.5 KHz	60 Hz	◎
		37.9 KHz	72 Hz	◎
		37.5 KHz	75 Hz	◎
		43.3 KHz	85 Hz	◎
SVGA	800 x 600	35.1 KHz	56 Hz	◎
		37.9 KHz	60 Hz	◎
		48.1 KHz	72 Hz	◎
		46.9 KHz	75 Hz	◎
		53.7 KHz	85 Hz	◎
XGA	1024 x 768	48.4 KHz	60 Hz	◎
		56.5 KHz	70 Hz	◎
		60.0 KHz	75 Hz	◎
		68.7 KHz	85 Hz	◎
SXGA	1280 x 1024	64.0 KHz	60 Hz	◎
WXGA	1280 x 720	44.8 KHz	60 Hz	

Note: When selecting WXGA resolution in your PC, the display set's screen might be

oversized since the compatibilities with different VGA cards are not the same.

Terminology

SDTV (Standard Definition Television): Provide 480 lines of resolution. The picture uses interlace scanning which means it begins its scan from odd lines and then the even lines.

EDTV (Extended Definition Television): Provide 480 lines of resolution. The picture uses progressive scanning which means it begins its scan line by line from top to bottom.

HDTV (High Definition Television): Provide 720 lines or 1080 lines of resolutions with native aspect ratio of 16:9. The picture uses 720i (interlace), 720p (progressive), or 1080i (interlace) to scan.

Specification

Model / Item		LT27C2M1
Panel (Active area)		27 " (16:9) WXGA Color TFT LCD (26.97 ")/ V270W1-L03
Pixel Number		1280× 720 pixels
Brightness (cd/m²)		550 (Center/ Typ.)
Contrast		600 (Typ.)
Response Time (ms)		25 (Typ.)
Viewing Angle (Degree)		170º (H) / 170º (V)
TV System		American TV Standard / NTSC System
Channel Coverage	VHF/UHF	2~13 CH / 14~69 CH
	CATV	2~ 125 CH
Rear I/O	Video Input 1	Y1Pb1Pr1 IN
	Audio Input 1	Y1Pb1Pr1 AUDIO IN
	Video Input 2	Y2Pb2Pr2 IN
	Audio Input 2	Y2Pb2Pr2 AUDIO IN
	Video Input 3	S-VIDEO IN
	Audio Input 3	S-VIDEO AUDIO IN
	Video Input 4	AV 1 IN
	Audio Input 4	AV 1 AUDIO IN
	Video Input 5	AV 2 IN
	Audio Input 5	AV 2 AUDIO IN
	AUDIO Output 1	SUB-WOOFER
	Video Output 2	AV OUT
	Audio Output 2	AV AUDIO OUT
	PC AUDIO IN	∅ 3.5 mm Jack
	ANALOG ANTENNA	75 Ω, Standard F- Connector
	VGA	15 Pin D-Sub
	HDMI Input (Optional)	Type A
	AC Input	100~ 240 V, 50~ 60 Hz, 3.5 A
Front I/O	Audio Input 1	AV 3 AUDIO IN
	Video Input 1	AV 3 IN
	Headphone	∅ 3.5 mm Jack
Speaker		10 W × 2
Power Consumption		Operation: 180 W; Standby: ≦ 5 W
OSD Language		English / French / Spanish
Accessories		User's manual ×1, Audio cable (PC) ×1, VGA cable ×1, Power cord ×1, Remote controller ×1, " AAA" Battery ×2

Note: Panel's active area, pixel number, brightness, contrast, response time and viewing angle might vary with panel's specifications.