

APPENDIX H
: USER'S MANUAL



LCoS Projection TV OWNER'S MANUAL

**MODELS: 62SA1D/71SA1D
62SA1D-UA/71SA1D-UA**



Please read this manual carefully and completely before operating your TV.
Retain this manual for future reference.
Record model number and serial number of the TV in the spaces provided below.
See the label attached on the back cover and relate this information to your dealer if you require service.

Model Number :
Serial Number :

Warning/Caution



WARNING/CAUTION:

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



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING/CAUTION:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

POWER CORD POLARIZATION:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code 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 the cable entry as practical.

REGULATORY INFORMATION:

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION:

Do not attempt to modify this product in any way without written authorization from LG Electronics. Unauthorized modification could void the user's authority to operate this product.

COMPLIANCE:

The responsible party for this product's compliance is:

LG Electronics U.S.A., Inc

1000 Sylvan Avenue, Englewood Cliffs, NJ 07632

1-800-243-0000

<http://www.lgusa.com>

TV Guide On Screen Notices for U.S.A.

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Patent Notice

The TV Guide On Screen system is protected by one or more of the following issued United States patents 6,498,895, 6,418,556, 6,331,877; 6,239,794; 6,154,203; 5,940,073; 4,908,713; 4,751,578; 4,706,121.

Le système TV Guide On Screen est protégés par un ou plusieurs brevets émis aux Etats-Unis, comme le 6,498,895, 6,418,556, 6,331,877; 6,239,794; 6,154,203; 5,940,073; 4,908,713; 4,751,578; 4,706,121.

Use of the CableCARD™ TradeMark.

“CableCARD™ is a trademark of Cable Television Laboratories, Inc.”

Digital Cable Compatibility

This digital television is capable of receiving basic analog, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced interactive digital cable services such as video-on-demand, cable operator enhanced program (For example, electronic program guide provided by the cable operator), and data enhanced television service may require the use of a set top box. For more information contact your local cable operator.

Safety Instructions

IMPORTANT SAFETY INSTRUCTIONS

Important safety instructions shall be provided with each apparatus. This information shall be given in a separate booklet or sheet, or be located before any operating instructions in an instruction for installation for use and supplied with the apparatus. This information shall be given in a language acceptable to the country where the apparatus is intended to be used. The important safety instructions shall be entitled "Important Safety Instructions". The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list. At the manufacturer's option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction :

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



PORTABLE CART WARNING

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has exposed to rain or moisture, does not operate normally, or has been dropped.

15. CAUTION concerning the Power Cord :

Most appliances recommend they be placed upon a dedicated circuit; that is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

16. Outdoor Use Marking :

WARNING - To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Appliance To Rain Or Moisture.

17. Wet Location :

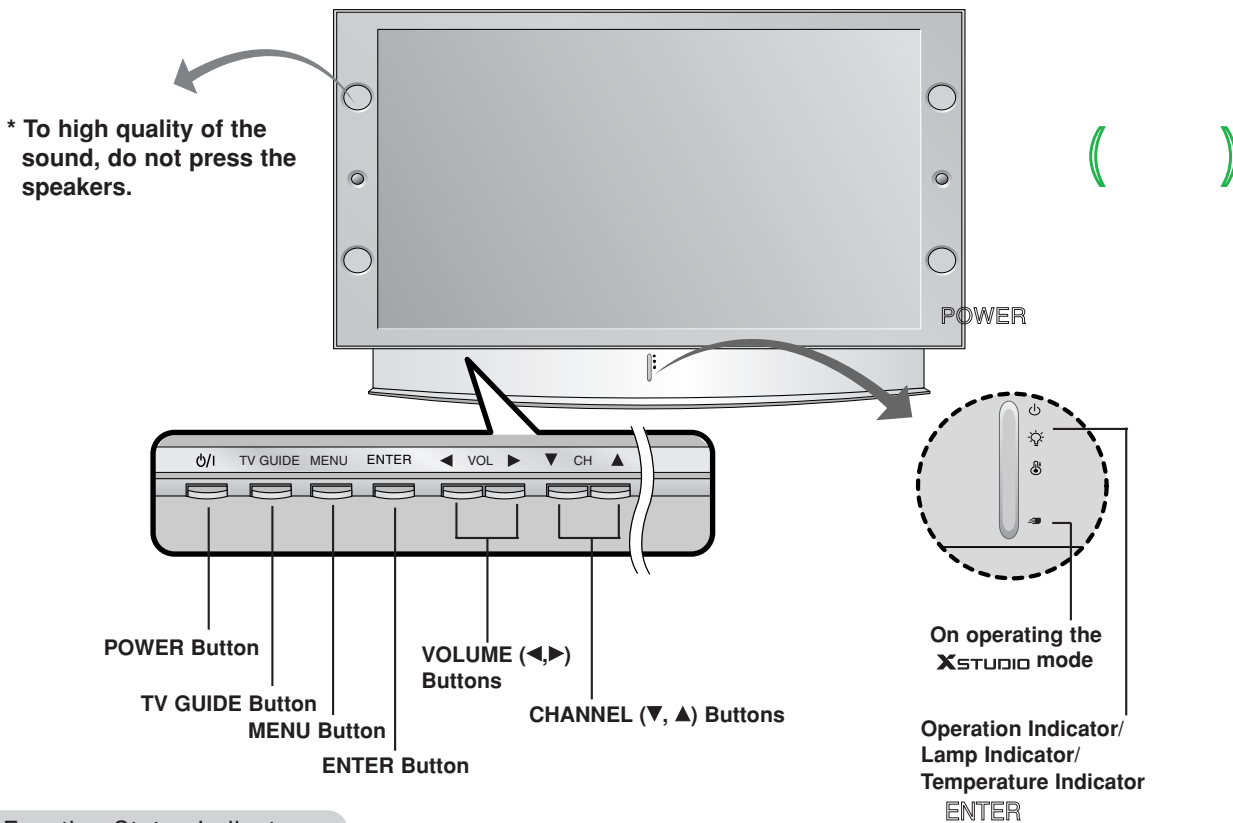
Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Introduction

Controls

- This is a simplified representation of a front panel.
- Here shown may be somewhat different from your TV.

Front Panel Controls



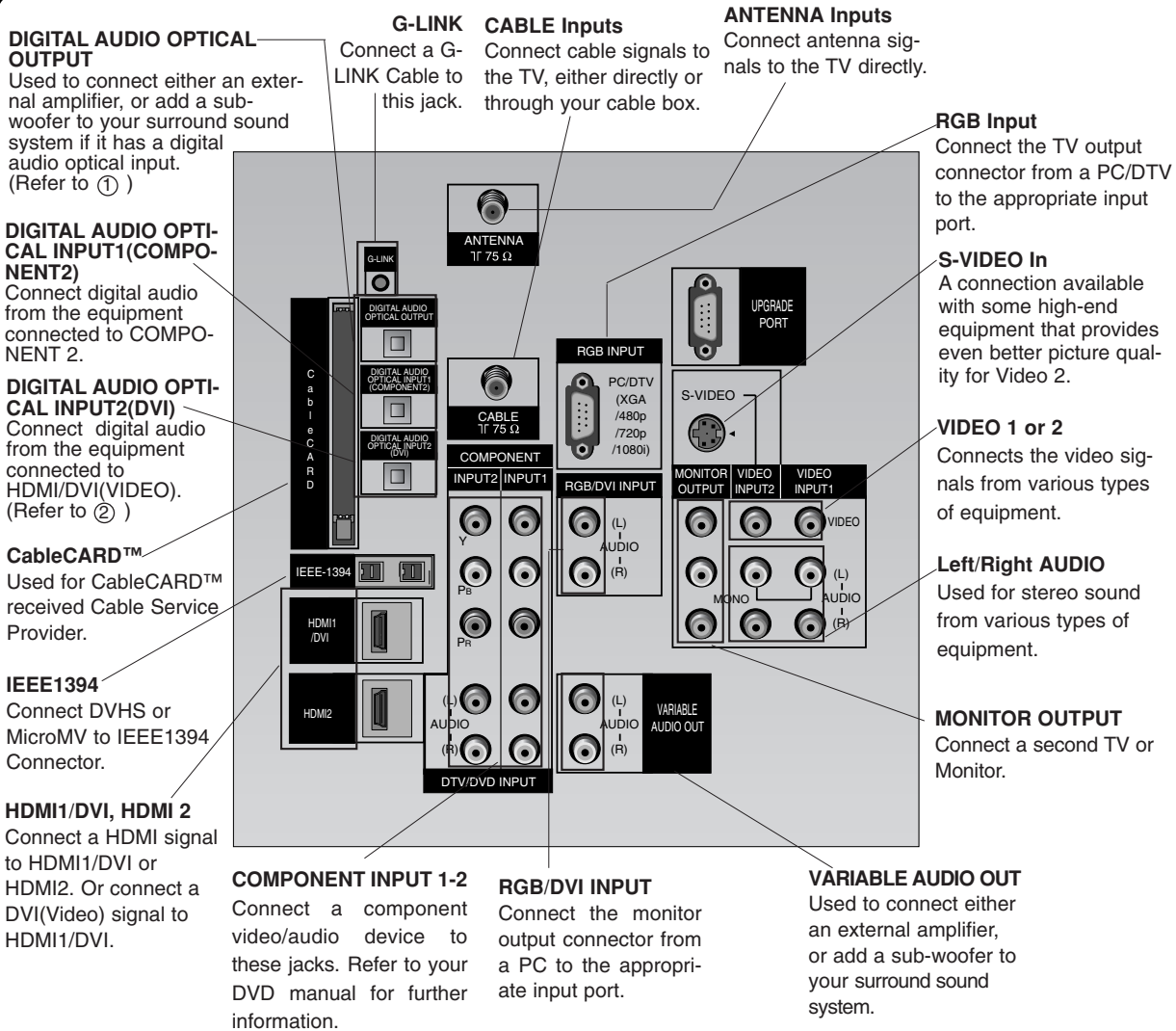
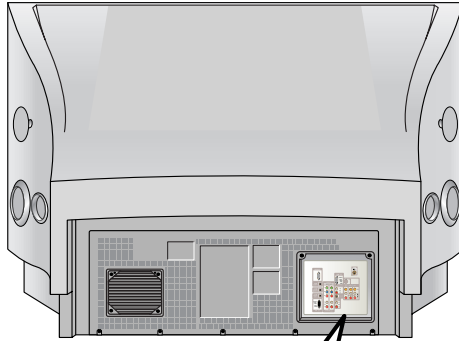
Function Status Indicators

- Lamp indicator, operation indicator, and temperature indicator located below the front panel controls, reveal the operating status of the LCoS projection TV.

Operation Indicator	Off	Power Cord is not connected.
	Red	Power Cord is connected, TV is in standby mode.
	Green	TV turns on.
	Red (blinking)	Power Cord is connected, TV is in booting sequence.
	White (Stacking)	Preparing operation in standby mode.
Lamp Indicator	Orange	Projection lamp is reaching the end of its life and needs to be replaced with a new lamp. Contact your service center.
	Red (blinking)	There is a problem with the lamp or around it. Contact an authorized service center.
	Green (blinking)	The lamp cover is not closed.
Temperature Indicator	Orange	The projection TV is overheating. Check the blocked vents of the Projection TV .
	Red	The projection TV shuts down due to overheating.
	Red (blinking)	The projection TV shuts down, check the cooling fan. Contact your service center.

Connection Options

Back Connection Panel



Notes: ① In standby mode, these port will not work.

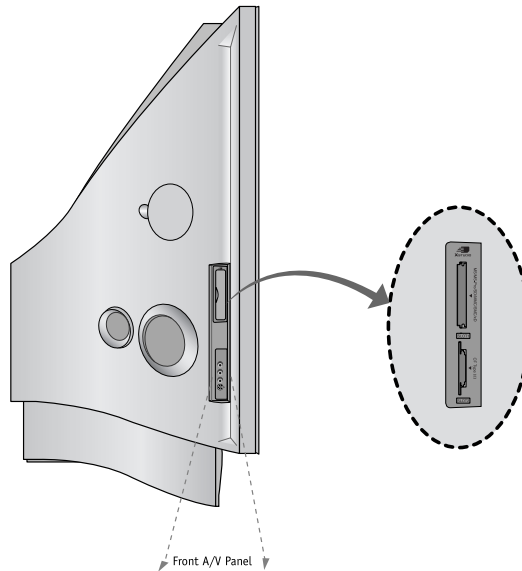
② If the video is connected through HDMI-TO-HDMI cable, you don't need to connect digital audio. This port is used only when the video connected through DVI-TO-HDMI cable.

There are four jacks on the left side on your projection TV that make connecting Audio/Video devices like video games and camcorders very simple.

The jacks are like those found on the back jack connection panel. This means that most equipment that connects to those types of jacks on the rear jackpack, may be connected to the front connection panel.

To use the side jacks as the signal source, select them using Main Input menu as described on page 61. They will be named "Front Video" in the Main Input menu.

Front Connection Panel



If you input both Front Video and S-Video, only the S-Video will work.



If you're connecting a video game device, make sure to change the picture settings with the EZ Picture option in the Video menu (see page 62).

LEFT/RIGHT AUDIO

Used for stereo sound from various types of equipment.

VIDEO

Connects the video signals from any piece of equipment.

S-VIDEO

A connection available on some very high-end equipment that provides better picture quality than video input.

Mini glossary

A/V CABLES Audio/Video cables. Three cable connector—Right audio (red), Left audio (white), and Video (yellow). A/V cables are used for stereo playback of videocassettes and for higher quality picture and sound from other A/V devices.

A/V DEVICE Any device that produces video or sound (VCR, DVD, cable box, or television).

PC Setup

- This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.
- The TV perceives 640x480, 60Hz as DTV 480p based on the PC graphic card, change the screen scanning rate for the graphic card accordingly.

<When the PC supports DVI>

How to connect

1. Connect the PC to HDMI1/DVI port of this TV with an HDMI-to-DVI cable(not supplied with this product).
If you do not need to connect audio, HDMI2 port is also available for the DVI video connection.
2. If the PC(or the sound card of the PC) has a fiber optic digital audio output connector, connect the PC's audio output to DIGITAL AUDIO(OPTICAL) port for DVI INPUT.
3. If the PC(or the sound card of the PC) has an analog audio output connector, connect the PC's audio output to AUDIO INPUT port located on the right side of RGB INPUT port.

How To Use

1. To get the best picture quality, adjust the PC graphics card to 1024x768, 60Hz.
2. Select HDMI1/DVI input source in main input option of SETUP menu.(Refer to P.61)
TV/VIDEO button is also available for this purpose.
3. Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

<When the PC supports RGB>

How to connect

1. Connect the PC to RGB INPUT port of this TV with a RGB cable(not supplied with this product).
2. If the PC(or the sound card of the PC) has an analog audio output connector, connect the PC's audio output to AUDIO INPUT port located on the right side of RGB INPUT port.

How To Use

1. To get the best picture quality, adjust the PC graphics card to 1024x768, 60 Hz.
2. Select **RGB-PC** input source in main input option of SETUP menu.(Refer to P.61)
Once you select **RGB-PC** in main input option of SETUP menu, **TV/VIDEO** button is also available for this purpose.
3. Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC output to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the VIDEO menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.

Monitor Display Specifications (RGB-PC or HDMI/DVI Mode)

Resolution	Horizontal Frequency(KHz)	Vertical Frequency(Hz)
640x350	31.468	70.09
	31.469	59.94
640x480	37.861	72.80
	37.500	75.00
800x600	35.156	56.25
	37.879	60.31
	48.077	72.18
	46.875	75.00
1024x768	48.363	60.00
	56.476	70.06
	60.023	75.02

Digital Audio Output

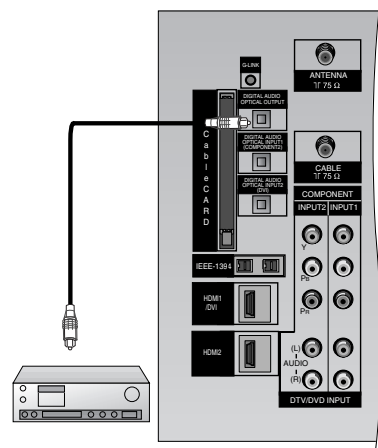
Send the TV's audio to external audio equipment (stereo system) via the Digital Audio Output (Optical) port.

How to connect

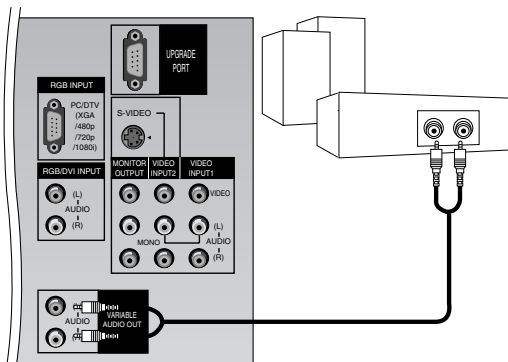
1. Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.
2. Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.
3. Set the "**TV Speaker** option - **Off**" in the AUDIO menu. Refer to page 64.
See the external audio equipment instruction manual for operation.



Caution: Do not look into the optical output port. Looking at the laser beam may damage your vision.



External Stereo



Hook up Variable Audio Output, L-Audio-R to Amplifier system for Left/Right front speaker sound.

How to connect

1. Locate the Variable Audio Out jacks on the back of your TV and the Input jacks on the back of your stereo's amplifier.
2. Connect the two jacks, making sure that the right and left channels are connected correctly.
3. Set up your speakers through your analog stereo amplifier, according to the instructions provided with the amplifier.

HDMI



- HDMI™, the HDMI logo and High-Definition Multimedia Interface is a trademark or registered trademark of HDMI Licensing.
- This TV can receive the High-Definition Multimedia Interface(HDMI) or the Digital Visual Interface(DVI).
- This TV supports HDCP(High-bandwidth Digital Contents Protection) Protocol for 720x480p, 1280x720p, and 1920x1080i resolution.
- When you connect this TV with a source device(DVD player, Set Top Box or PC) supporting Auto HDMI/DVI function, the output resolution of the source device will be automatically set to 1280x720p.
- If the source device does not support Auto HDMI/DVI, you need to set the output resolution appropriately.
To get the best picture quality, adjust the DVD Player or Set Top Box's output resolution to 1280x720p, and the PC graphics card's output resolution to 1024x768, 60Hz.
- If the source device has an HDMI output, no other audio connection is necessary because HDMI-to-HDMI connection includes both video and audio.
- If the source device has a DVI output and no HDMI output, a separated audio connection is necessary.

<When the source device(DVD player or Set Top Box) supports HDMI>

How To Connect

1. Connect the source device to HDMI1/DVI or HDMI2 port of this TV with an HDMI cable(not supplied with this product).
2. No separated audio connection is necessary.

How To Use

- If the source device supports Auto HDMI function, the output resolution of the source device will be automatically set to 1280x720p.
- If the source device does not support Auto HDMI, you need to set the output resolution appropriately.
To get the best picture quality, adjust the output resolution of the source device to 1280x720p.
- Select HDMI1/DVI or HDMI2 input source in main input option on the SETUP menu.(Refer to P.61)
TV/VIDEO button is also available for this purpose.

<When the source device(DVD player or Set Top Box) supports DVI>

How To Connect

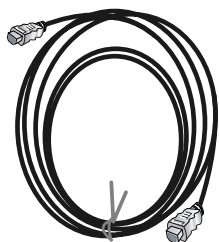
1. Connect the source device to HDMI1/DVI port of this TV with a HDMI-to-DVI cable(not supplied with this product).
Do not use HDMI2 port for DVI connection if you want to connect audio.
2. A separated audio connection is necessary.
3. If the source device has a fiber optic digital audio output, connect the audio output to DIGITAL AUDIO(OPTICAL) port for DVI INPUT.
4. , connect the PC's audio output to AUDIO INPUT port located on the right side of RGB INPUT port.

How To Use

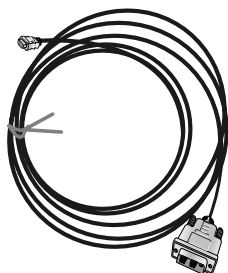
- If the source device supports Auto DVI function, the output resolution of the source device will be automatically set to 1280x720p.
- If the source device does not support Auto DVI, you need to set the output resolution appropriately.
To get the best picture quality, adjust the output resolution of the source device to 1280x720p.
- Select HDMI1/DVI input source in main input option on the SETUP menu.(Refer to P.61)
TV/VIDEO button is also available for this purpose.

Reference

Cable sample



HDMI Cable
(not supplied with the product)



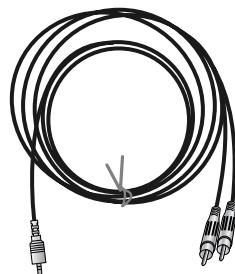
HDMI to DVI Cable
(not supplied with the product)



Fiber Optic Digital Audio Cable
(not supplied with the product)



Analog Audio Cable(RCA type)
(not supplied with the product)



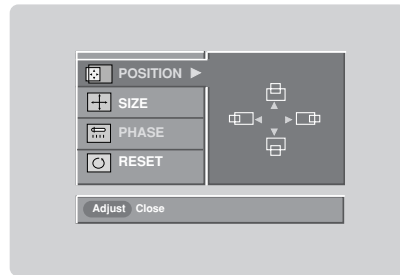
Analog Audio Cable(Stereo to RCA type)
(not supplied with the product)

How to use

1. Connect the HDMI1/DVI Source Devices(DVD Player or Set Top Box or PC) and the TV SET.
2. Turn on the display by pressing the POWER button on the TV SET and HDMI1/DVI Source Devices remote control.
3. Select HDMI1/DVI Input source in Main Input option on the SETUP menu.(Refer to P.61)
4. Check the image on your TV SET. There may be noise associated with the resolution, vertical pattern, contrast or brightness in HDMI1/DVI Source Devices. If noise is present, change the HDMI1/DVI Source Devices to another resolution, change the refresh rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphics card can not be changed, change the PC graphics card or consult the manufacturer of the PC graphics card.

Notes:

- Depending on the graphics card, DOS mode may not work if a HDMI to DVI Cable is in use.
- Avoid keeping a fixed image on the screen for a long period of time. The fixed image may become permanently imprinted on the screen.
- When Source Devices connected with HDMI1/DVI Input, output PC Resolution(VGA, SVGA, XGA), Position and Size may not fit to Screen. As shown in the picture below, press the **ADJUST** button to adjust the screen Position of TV SET and contact a PC graphics card service center.
- When Source Devices connected with HDMI1/DVI Input, output TV SET Resolution(480p, 720p, 1080i) and TV SET Display fit EIA/CEA-861-B Specification to Screen. If not, refer to the Manual of HDMI1/DVI Source Devices or contact your service center.
- In case HDMI1/DVI Source Devices is not connected Cable or poor cable connection, "NO SIGNAL" OSD display in HDMI1/DVI Input. In case that Video Resolution is not supported TV SET output in HDMI1/DVI Source Devices, "INVALID FORMAT" OSD display. Refer to the Manual of HDMI1/DVI Source Devices or contact your service center.



PC mode

In This Mode, the Supported TV Set Resolution Specification

- 1920 x 1080 | @ 59.94Hz / 60Hz, 16:9
- 1280 x 720 P @ 59.94Hz / 60Hz, 16:9(preferred format)
- 720 x 480 P @ 59.94Hz / 60Hz, 16:9
- 720 x 480 P @ 59.94Hz / 60Hz, 4:3

In This Mode, the Supported PC Resolution Specification

- 640 x 350 @ 70Hz
- 640 x 480 @ 60Hz
- 640 x 480 @ 72Hz
- 640 x 480 @ 75Hz
- 800 x 600 @ 56Hz
- 800 x 600 @ 60Hz
- 800 x 600 @ 72Hz
- 800 x 600 @ 75Hz
- 1024 x 768 @ 60Hz(preferred format)
- 1024 x 768 @ 70Hz
- 1024 x 768 @ 75Hz



- You can use the JPEG and MP3 file by memorizing to Memory card in **XSTUDIO** mode.

Notes on Memory Card

Memory Card

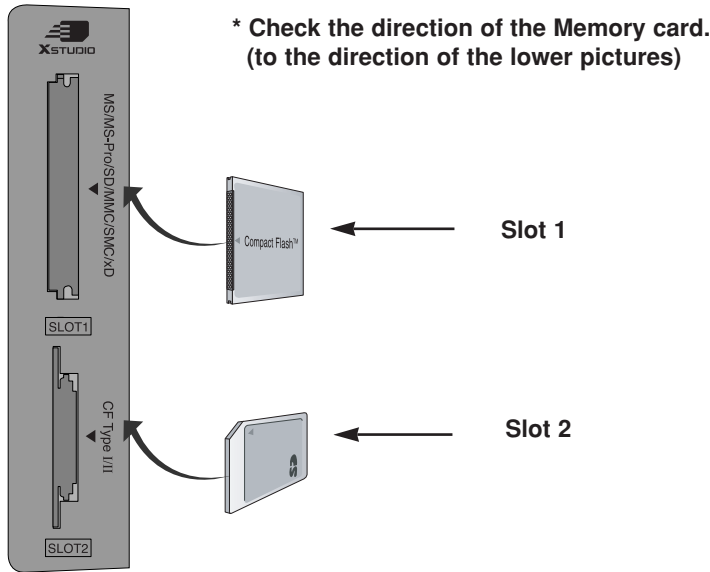
This is a device equipment to communicate the data between AV external equipment. It's used to a digital camera, camcorder, MP3 player, notebook or PDA.

Precaution for Using the Memory Card

- Please be sure to insert the correct memory card type in the right direction.
(Confirm between the two memory slots before insertion.)
- Don't insert the metal substances into the slots of the memory card.
- Do not bend, drop or apply strong shock to memory card.
- After pulling the memory card out from the TV, please keep the memory stick in a appropriate case to prevent it from static shock.
- The stored data may be changed or lost as a result of misuse, static electricity.
- Do not turn the power off while the memory card is in operation.
- Don't eject the memory card while in use. Otherwise, it may cause a data loss or card damage.
- Insert only one card to each slot.
- To prevent a change or loss for stored data, don't misuse the TV or don't let static electricity or electrical noise for TV.
- This Company takes no responsibility for problems such as the damage or malfunction that occurs while using the TV set, inappropriate TV settings, or any other reasons, except for defects or malfunctions intrinsic to the product.
- Ensure to use a memory card that lists the manufacturers name and serial number.
- The manufacturer will not be responsible for any data damage. Making back up data is strongly recommended.
- Make sure to comply with the following steps when ejecting a memory card.
- Each Memory Card is complied with standard.

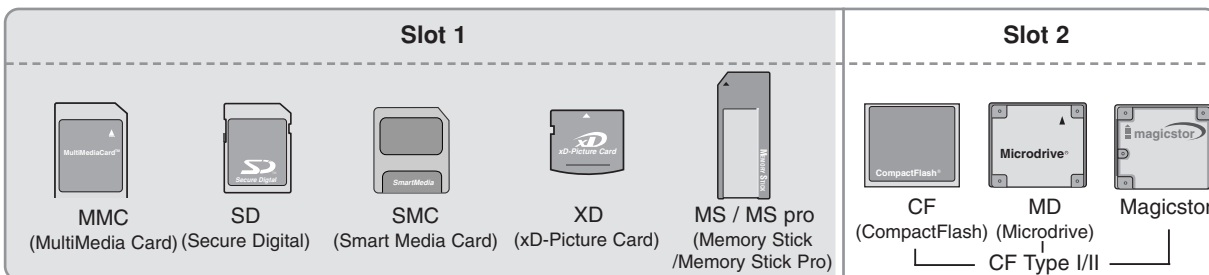
Notes on Memory Card

Available Memory Card








Memory Card type

- Use the specified card based on the slot location.
- 8 types of Memory Card can be used for this set.
- NTFS file system is not supported.



The JPEG Decoding/The Image Preview Supplied Spec

	Compression Method		Colour format		
	Baseline	Progressive	4:4:4 11:11:11 (Y, Cb, Cr)	4:2:2 21:11:11 (Y, Cb, Cr) 12:11:11 (Y, Cb, Cr)	4:2:0 22:11:11 (Y, Cb, Cr)
JPEG Decoding Support	○	X	X	○	○
Image Display	Image	invalid format	invalid format	Image	Image
Preview Image Display	Display  when there is no thumbnail.			Display  when there is no thumbnail.	Display  when there is no thumbnail.

- If an error occurs when decoding the JPEG, **“Corrupted file”** is displayed on screen.

Available file in **XSTUDIO** mode

A sort of file	Photo Image (JPEG)	Music File (MP3)
Compatilibility	*.jpg	*.mp3
Memory card capacity	CF: 2GB Microdrive: 2GB Magicstor: 2.2GB MMC: 256MB SD: 512MB - Some MagicStor Plus cards are not usable. An error may occur if you use a memory card with greater than the specified capacity.	SMC: 128MB XD: 512MB MS: 128MB MS PRO: 1GB
Unsupported or damaged file	Unsupported or damaged JPEG or MP3 files can cause errors. Do not try to change the file extension of unsupported file types to the file extension of supported file types.	

- Playback speed can vary dependent on the card type.
- You can assign 8 characters for the file name of the card. If the file name is longer than 8 characters, it will be truncated at 6 digits and "~1, 2, 3, and 4" will be appended to the 7-8th position.

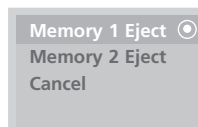
How to insert and eject the card

◆ Inserting a Card

1. Insert the card into the Slot 1 and/or Slot 2 with the hand softly and slowly.
2. Press the **XSTUDIO** button to enter the **XSTUDIO** mode.
Press the **XSTUDIO** button again to exit the **XSTUDIO** mode.

◆ Ejecting a card

1. Press the **M/C EJECT** button on the remote control.
2. Press **▲ / ▼** button to Select the **Memory 1 Eject** or **Memory 2 Eject** based on the inserted card location.
If selecting **Cancel**, OSD will disappear.
3. Eject the card with the hand.

**Notes:**

- Screen saver will appear if you do not remove the card with the hand after operating the eject function.
- When entering the photo or music media at first, the **M/C EJECT** button will not work.
It's possible to use the **M/C EJECT** button during using the photo or music media.



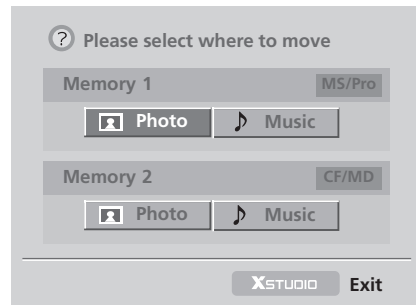
Caution: Press the **M/C EJECT** button of remote control before removing the memory card. Failure to do so may damage the card.






Notes on Memory Card

* In this manual, the OSD (On Screen Display) may be different from your TV's because it is just an example to help you with the TV operation.

Select the Photo or Music Media

- When you plug a memory card or press the  button, the below screens will be displayed.



1. Press  /  /  /  button to select photo or music for slot1/2.
2. Press the **ENTER** button to enter the photo or music media.
3. Press the  button to exit the **XSTUDIO** mode.

Notes:

- The OSD of the ejected card slot is inactivated when ejecting the card with the hand.
- If there is any error in a memory card, it's impossible to enter **XSTUDIO** mode.

JPEG File Viewing Options

- When you select **Photo** in entry menu, you will now see a screen filled with thumbnail photo media.

* In this manual, the OSD (On Screen Display) may be different from your TV's because it is just an example to help you with the TV operation.

Screen Components

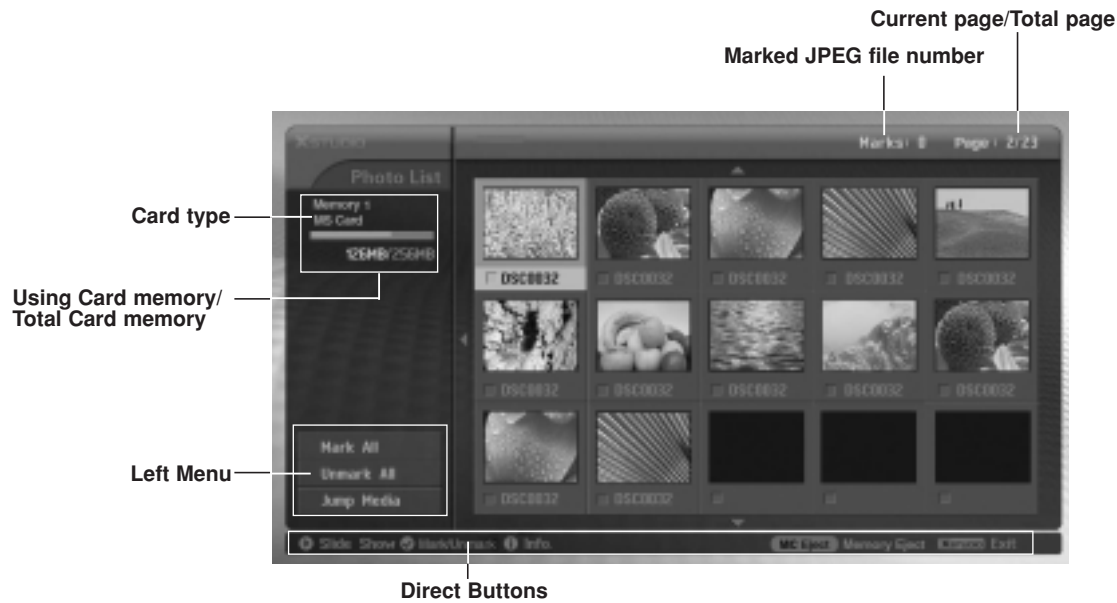


Photo Selection and PopUp menu

- Select your desired image file.



1. Insert the memory card to Slot 1 and/or Slot 2 on the TV front panel.
2. Press the **XSTUDIO** button.
3. Use **▲ / ▼ / ◀ / ▶** button to select photo media for slot1 or slot 2.
4. Press the **ENTER** button to enter the photo media.
Note: It's possible to display 15 JPEG files per page.
5. Press the **▲ / ▼ / ◀ / ▶** button to select JPEG file and then press the **ENTER** button.
6. Press the **▲ / ▼** button to select **View** and then press the **ENTER** button. The selected image will display on entire screen.

JPEG File Viewing Options

Mark/Unmark for JPEG file

- You can mark/unmark the file to view the desired file or use slide show for desired file conveniently.
- The selected file displays orange in color.

When pressing the **ENTER** button after marking some a file, the marked file displays green in color.



◆ Mark/Unmark for all files

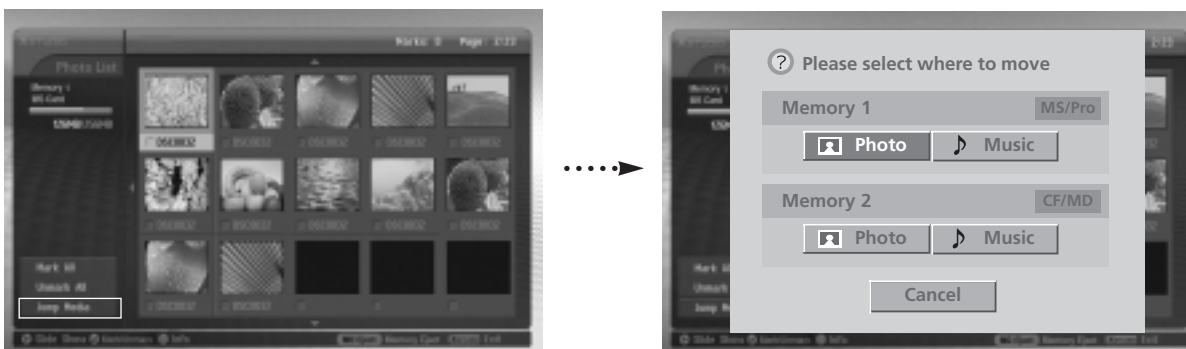
1. In photo media, repeatedly press ◀ button to enter the menu on the left.
2. Press the ▲ / ▼ button to select **Mark All** or **Unmark All**.
 - If you select **Mark All**, every file is selected.
 - If you select **Unmark All**, the selection for every file is released.
3. Press the **ENTER** button and then ▶ button to return to the photo list.

◆ Mark/Unmark for some file

Press the **MARK** button repeatedly to mark or unmark some JPEG file.

Jump Media

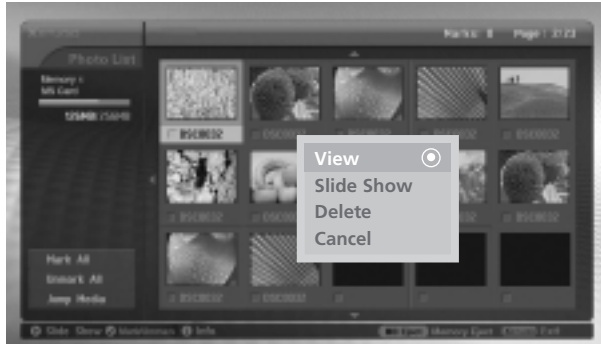
- Use this function to jump to other media during using photo media.



1. In photo media, press ◀ button repeatedly to enter the left menu.
2. Press the ▲ / ▼ button to select **Jump media** and then press the **ENTER** button.
3. Press the ▲ / ▼ / ◀ / ▶ button to select desired media and then press the **ENTER** button. The screen displays each media list.

The Image Adjustment

- You can display the selected image on entire screen and do the various adjustment for the JPEG file.



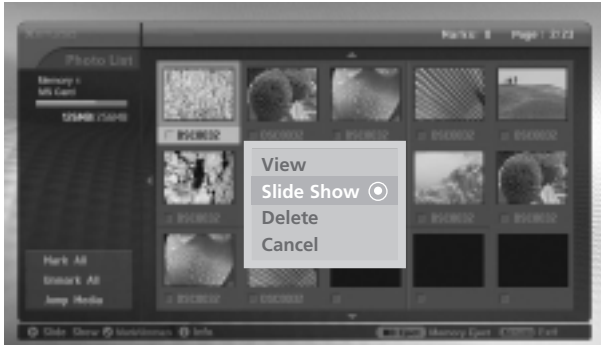
1. Press the ▲ / ▼ / ◀ / ▶ button to select JPEG file and then press the **ENTER** button.
2. Press the ▲ / ▼ button to select **View** and then press the **ENTER** button The selected image will display on entire screen.
3. Adjust the JPEG file.



Image selection	<ul style="list-style-type: none"> • Press the ▶ button to select next image. • Press the ◀ button to select previous image. • If you mark for a file, you can see only the marked image.
Image Rotation	<ul style="list-style-type: none"> • Press the ▲ / ▼ button to rotate the image. • ▲: Rotate clockwise • ▼: Rotate counterclockwise • The enlarged image cannot be rotated.
Image Zoom In/Out	<ul style="list-style-type: none"> • Press the CH ▲ / ▼ button to enlarge or reduce the image 2 or 4 times. • Press the ▲ / ▼ / ◀ / ▶ button to move the enlarged image.
Image Deletion	<ul style="list-style-type: none"> • Press the MARK button to delete the current image.
Go to the Menu	<ul style="list-style-type: none"> • Press the EXIT button to return to the photo list.
Shown/Hidden the menu	<ul style="list-style-type: none"> • Each press of the ENTER button, the menu will toggle hidden or shown. • The OSD menu will automatically disappear after a while.

JPEG File Viewing Options

Slide Show




1. Press the ▲ / ▼ / ◀ / ▶ button to select JPEG file and then press the **ENTER** button.
2. Press the ▲ / ▼ button to select **Slide Show** or **Show Marked** and then press the **ENTER** button. (If you mark the file with using **MARK** button, **Show Marked** is displayed on screen.)




3. You can choose the slide show delayed time and effect. Press the ▲ / ▼ / ◀ / ▶ button to choose the slide show delayed time and effect.
4. Press the ▲ / ▼ / ◀ / ▶ button to select **OK**. Slide show start.

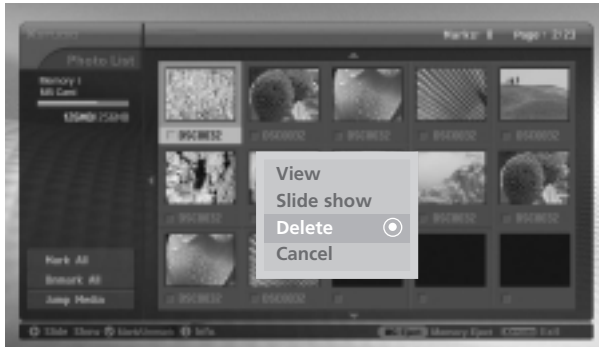
Notes:

- You can also operate the **Slide Show** or **Show Marked** with  button directly as shown.
- If you mark for a file, slide show will show only the marked image.



Next / previous Image Selection	<ul style="list-style-type: none"> • Press the ▶ button to select next image. • Press the ◀ button to select previous image.
Image Pause	<ul style="list-style-type: none"> • Press the button to pause the current image. • Press the  button to restart the slide show. • By pressing ◀ / ▶ button, you can also select the next or previous image while pausing the image.
Go to the menu	<ul style="list-style-type: none"> • Press the EXIT button to return to the photo list.
Shown/Hidden the menu	<ul style="list-style-type: none"> • Each press of the ENTER button, the menu is toggle hidden or shown. • The OSD menu will automatically disappear after a while.

JPEG file Deletion and Cancel



1. Use the ▲ / ▼ / ◀ / ▶ button to select JPEG file and then press the **ENTER** button.
2. To delete the file, press the ▲ / ▼ button to select **Delete** and then press the **ENTER** button. When “Do you want to delete the file?” message is displayed, select **YES (YES or NO)** with ◀ / ▶ button. The file is deleted, all the following files are shifted up one position.

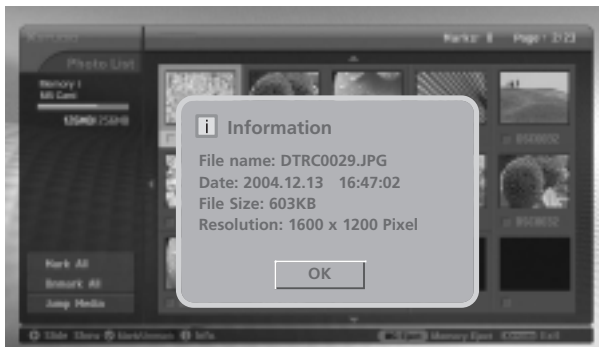


* If you select **Delete** after marking some file, all of the marked file is deleted.
But in case MS,SMC,SD memory card setted the write protection, “ Protection Mode. Please push the **OK** button.” message is displayed. When you select the **OK**, the screen will return to the photo list.(Release the write protection to delete a JPEG file.)

3. To return to the photo list, press the ▲ / ▼ button to select **Cancel** and then press the **ENTER** button.

File Information

- Use it to check information for selected JPEG file.



1. In photo media, select your desired JPEG file.
2. Press the **INFO** button. The file information for selected JPEG file is displayed.
If JPEG file has no information, you can't check it.
3. Press the **ENTER**, **EXIT** or **INFO** button to return to the photo list.

Screen Saver

- If you don't press any button about 30 seconds while displaying the photo list, the screen saver is worked.



* The 'Screen Saver'?
Screen saver is to prevent screen pixel burning caused by long time still picture.

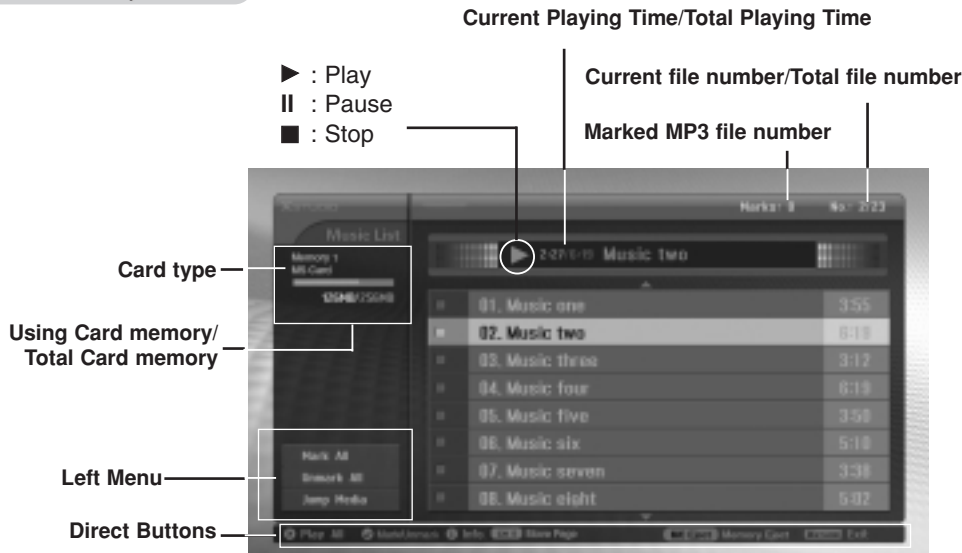
XSTUDIO

- Press the **ENTER**, ▲ / ▼ / ◀ / ▶, **EXIT**, ▶(play), ■, ◀◀, ▶▶, **INFO**, CH ▲ / ▼, **MARK** buttons to release the screen

MP3 File Playing Operation

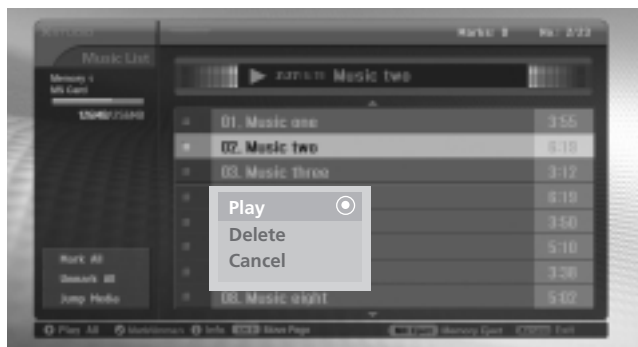
- Purchased MP3/music files may contain copyright restrictions. Playback of these files may not be supported by this model.

Screen Components



MP3 File Selection and Playback

- MP3 file Selection and deletion function don't work while playing music.
- If pressing any button except , , button on the remote control while playing music, the music playing is stopped.
- Moves from the current 8 files list to the next files list with **CH ▲ / ▼** button.



1. Insert the memory card into Slot 1 and/or Slot 2 on the TV front panel.
2. Press the **XSTUDIO** button.
3. Use **▲ / ▼ / ◀ / ▶** button to select music media for slot1 or slot 2.
4. Press the **ENTER** button to enter the music media.
Note: It's possible to display 8 MP3 files per page.
5. Press the **▲ / ▼** button to select desired MP3 file and then press the **ENTER** button.
6. Press the **▲ / ▼** button to select **Play** or **Play Marked** and then press the **ENTER** button.(If you mark the file with using **MARK** button, **Play Marked** is displayed on screen.)

Notes:

- You can also play the music with button directly.
- The current playing MP3 file displays in front of the title.
- While playing music, press the **◀** or **▶** button to select the previous or next music directly.
- If you press the **◀** button while playing music, the MP3 will replay from beginning.
(If you press the **◀** button within 0~1 seconds after playing the music, the MP3 plays the previous file.)

* In this manual, the OSD (On Screen Display) may be different from your TV's because it is just an example to help you with the TV operation.

Stop/Pause Playback

◆ Stop Playback

To stop playback, press the **■** button on the remote control.

To stop playback, press the **ENTER**, **VOL** (◀ / ▶), **CH** (▲ / ▼) button on the TV.

Notes:

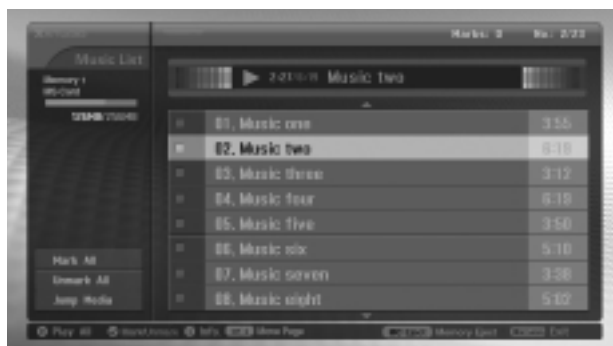
- If you replay the MP3 file after stopping, the highlighted MP3 file on menu will play.
- On stopping, **VOL** (◀ / ▶) and **CH** (▲ / ▼) buttons on the TV are used to navigate.

◆ Pause Playback

1. Press the **II** button to pause playback.
2. Press the **II** or **▶** button to starts from the point of your paused part.

Mark/Unmark for MP3 file

- You can mark/unmark the file to play the desired file only.
- The menu on the left can be used when playback is stopped.



◆ Mark/Unmark for all files

1. In music media, press the **◀** button.
2. Press the **▲ / ▼** button to select **Mark All** or **Unmark All**.
 - If you select **Mark All**, every file is selected.
 - If you select **Unmark All**, the selection for every file is released.
3. Press the **ENTER** button and then **▶** button to return to the music list.

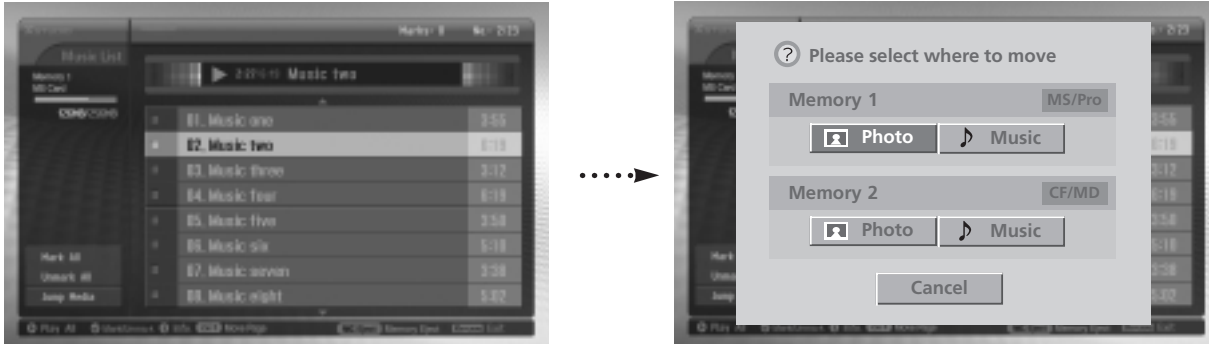
◆ Mark/Unmark for some file

Press the **MARK** button repeatedly to mark or unmark some MP3 file.

MP3 File Playing Operation

Jump Media

- Use this function to jump to other media during using music media.



1. In music media, press the ◀ button.
2. Press the ▲ / ▼ button to select **Jump media** and then press the **ENTER** button.
3. Press the ▲ / ▼ / ◀ / ▶ button to select desired media and then press the **ENTER** button. The screen displays each media list.

Screen Saver

- If you don't press any button for about 30 seconds, the screen saver is activated.

◆ During playing the MP3

* The 'Screen Saver'?
Screen saver is to prevent screen pixel burning caused by long time still picture.



- Press the ◀, ⏮, ⏭ buttons. The screen saver is released but the MP3 playback is restarted.
- ◀, ⏮ : Return to a initial portion of the MP3 playback.
- ⏭ : Playback the next MP3.
- If you press any other button, the screen saver is released and the MP3 playback is stopped.

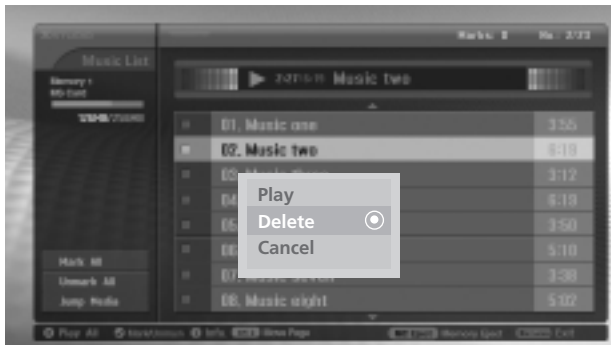
◆ During stopping the MP3



- Press the ▲ / ▼ / ◀ / ▶, **EXIT**, ▶(play), ⏸, ⏪, ⏩, **INFO**, **CH** ▲ / ▼, **MARK** buttons to release the screen saver.

MP3 file deletion and Cancel

- It's impossible to delete the music during playback.



1. Use the ▲ / ▼ button to select MP3 file and then press the **ENTER** button.
2. To delete the file, press the ▲ / ▼ button to select **Delete** and then press the **ENTER** button. When “Do you want to delete the file?” message is displayed, select **YES (YES or NO)** with ◀ / ▶ button. The file is deleted, all the following files are shifted up one position.

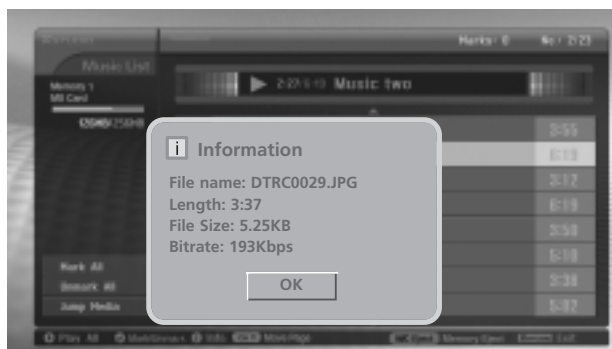


* If you select **Delete** after marking some files,, all of the marked files are deleted.
But in case MS,SMC,SD memory card setted the write protection, “ Protection Mode. Please push the **OK** button.” message is displayed. When you select the **OK**, the screen is returned to the photo list.(Release the write protection to delete a MP3 file.)

3. To return to the music list, press the ▲ / ▼ button to select **Cancel** and then press the **ENTER** button.

File Information

- Use it to check information for selected MP3 file.



1. In music media, select your desired MP3 file.
2. Press the **INFO** button. The file information for selected MP3 file is displayed.
If MP3 file has no information, you can't check it.
3. Press the **ENTER**, **EXIT** or **INFO** button to return the previous menu.

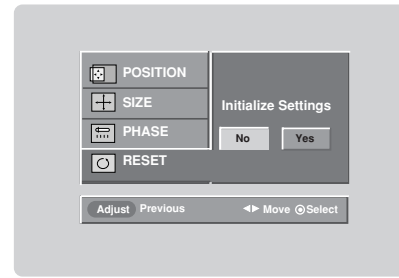
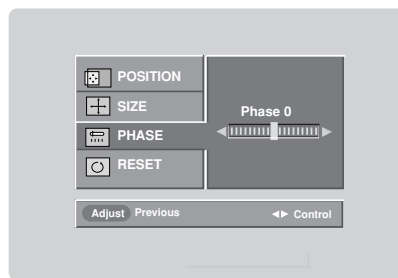
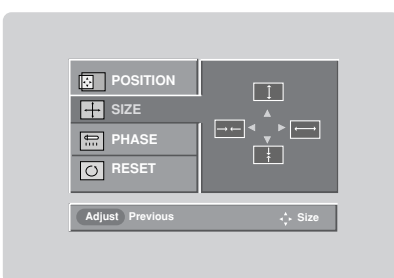
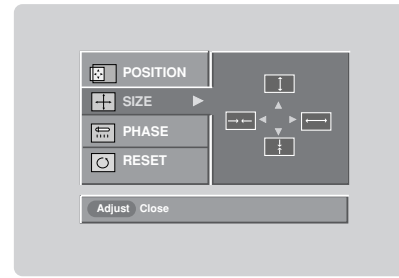
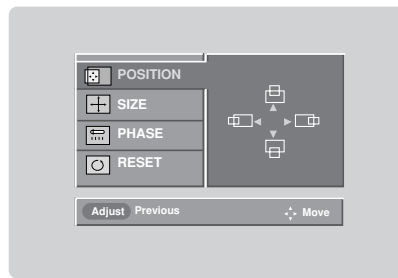
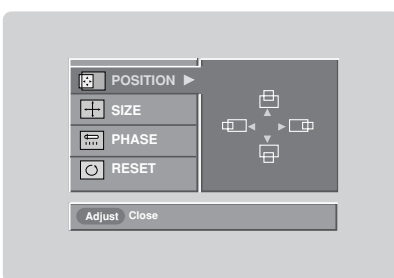
Screen Setup for PC mode

Operation

- When RGB connect to PC input and select the RGB-PC in Main Input, this function is used.
- When HDMI/DVI connect to PC input and select HDMI/DVI input, this function is used.
- In RGB-DTV mode, SIZE and PHASE is not available.

Adjustment for screen Position, Size, Phase, Reset

- After connecting RGB-PC or HDMI/DVI to PC input and checking the screen quality.
 - Display PC Adjust Menu using **ADJUST** button.
 - Position : Adjust the screen position. After displaying the Adjust, select the screen position.
 - Size : Adjust the screen size.
 - Phase : Adjust the phase of Pixel clock.
(Only available in RGB-PC mode)
 - Reset : Initializing Size, Position, Phase adjustment .



Troubleshooting Checklist

No picture & No sound

- Check whether the TV is turned on.
- Is the power cord inserted into wall power outlet?
- Test the wall power outlet, plug another product's power cord into the outlet where the TV's power cord was plugged in.

Picture OK & No sound

- Press the **VOLUME** (▶) button.
- Sound muted? Press **MUTE** button.

The remote control doesn't work

- Check to see if there is any object between the TV and the remote control causing obstruction.
- Are batteries installed with correct polarity (+ to +, - to -)? (Refer to p.11)
- Correct remote operating mode set: TV, VCR etc.?
- Install new batteries. (Refer to p.11)

Picture appears slowly after switching on

- This is normal, the image is muted during the TV startup process. Please contact your service center, if the picture has not appeared after five minutes.

No or poor color or poor picture

- Select **Color** in the **Picture** menu and press the ▶ button. (Refer to p.62)
- Keep a sufficient distance between the TV and the VCR.
- Activate any function to restore the brightness of the picture. (If still picture is on the screen for more than 5 minutes, the screen gets dark.)

Horizontal/vertical bars or picture shaking

- Check for local interference such as an electrical appliance or power tool.

Troubleshooting Checklist

No output from one of the speakers

- Adjust **Balance** in the **AUDIO** menu. (Refer to p.64)

Unusual sound from inside the TV

- A change in ambient humidity or temperature may result in the unit turning off and does not indicate a fault with the TV.

Poor TV input signal

- Check ANTENNA and CABLE connection.

Poor Video signal

- Check ANTENNA and CABLE connection.

No channel or a few channel

- Start EZ Scan.

Unsuitable Aspect Ratio

- You can adjust the **RATIO** button or **Aspect Ratio** in the **OPTION** menu.

My Guide listings disappeared after a power failure

- You should begin to receive listings again within 24 hours.

Some channel numbers in the Guide are incorrect.

- You can correct them using Change Channel Display under Setup.

I have not received any Guide listings.

- Listings usually appear within 24 hours after a successful Setup.
- It may take up to a week to fill the Listings grid with the full 8 days of listings.
- If you see a Listings grid with the message "No Listings" displayed you should start to receive updated program listings within 24 hours. To receive listings:
 - Make sure the cable box is left On, if applicable.
 - Turn off your recorder when not in use.
- If the message "No data for this screen" is displayed:
 - Check the connections between the TV, cable, antenna, and the IR cable if using a cable box.
 - Verify Setup information under Change System Settings.
 - Make sure the cable box is On, if applicable.
 - If this message is still displayed after multiple days, please contact the LG® Brand Customer Support.

A show I set to Record did not occur.

- Make sure your recorder is turned Off before the recording begins.
- Make sure there is a tape.
- Check the Schedule menu and verify that the show is listed before recording begins.
- Check the placement of the IR cable in front of your recorder.

I set a show to Auto-Tune and it did not.

- Check the Schedule menu and verify that the show is listed as a Reminder.
- Highlight the show under Listings and do the following:
 - Press the Menu key on the remote.
 - Use the down arrow to highlight Edit Reminder, and press **ENTER**.
 - Verify the Auto-Tune option reads Yes.
- The TV must be On at the scheduled time for Auto-Tune.
- If you have a cable box, check the IR cable.

I set a show with the Power On TV option and it did not.

- Check the Schedule menu and verify that the show is listed as a Reminder.
- Highlight the show under Listings and do the following:
 - Press the Menu key on the remote.
 - Use the down arrow to highlight Edit Reminder, and press **ENTER**.
 - Verify the Power On TV option reads Yes.

Maintenance

- Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have your new TV. Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

1. Here's a great way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth. Please be sure not to use a wet cloth.

Extended Absence



If you expect to leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.

Product Specifications

MODEL	62SA1D-UA	71SA1D-UA
Horizontal Size (inches)	63.3	72.2
Height (inches)	40.1	45.5
Depth (inches)	19.5	22.2
Weight (lbs.)	117.3	138.5
Power requirement	AC120V ~ 60Hz	
Television System	NTSC-M, ATSC, 64 & 256 QAM	
Program Coverage	VHF 2 ~ 13, UHF 14 ~ 69, CATV 1 ~ 135, CADTV 1 ~ 135. DTV 2 ~ 69	
Display Resolution	1080p	
Power Consumption (W)	260W	
Antenna	75 ohm External Terminal for VHF/UHF	
Audio Output (W)	20Wx2	
Supplied Accessories	Remote control, 2 size AA batteries, D-sub 15 pin Cable, G-LINK cable	

- The specifications shown above may be changed without prior notice for quality improvement.

CONCERNING PIXEL FUNCTIONALITY: Your LCoS Rear Projection Television contains about 921600 individual pixels. LCoS Projection displays typically contain a small number of pixels that do not function normally. Your display has been inspected and is in compliance with manufacturer's specifications, indicating that any pixel defects do not effect the operation or use of your display.

READ YOUR OPERATING GUIDE CAREFULLY SO THAT YOU UNDERSTAND THE OPERATION OF YOUR LCoS REAR PROJECTION DISPLAY AND HOW TO ADJUST THE CONSUMER CONTROLS.

IMPORTANT: Please fill out and mail in your Product Registration Card or go to www.lgservice.com to register your product online. This information allows us to reach you promptly should we discover a safety or reliability problem that could affect you.

CUSTOMER ASSISTANCE NUMBERS

To obtain customer assistance, product information, or Dealer or Service locations	Call 1-800-243-0000 24 hours a day, 365 days per year
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FOR SERVICE:

For warranty service information, please contact the LG®Brand Customer Support telephone number listed below.

When calling for service, please have your product model number, serial number and the date of purchase or the date of original installation available.

If a replacement unit is required, under some circumstances you may be asked to provide a reserve deposit to the LG®Brand Service Center against a credit card number as surety for advanced shipment. Your credit card will not be charged if you return the defective unit within 10 working days.

If a replacement unit is received, please use the carton and packaging from that unit in returning the defective unit to the LG®Brand Service Center.

Parts and service in accordance with the LG®Brand warranty is our responsibility and will be provided without charge. Other service requirements will be at the owner's expense. If you have problems in obtaining satisfactory warranty service, write or call the LG®Brand Customer Interactive Service.

To assure proper credit and avoid unnecessary charges, you must obtain a Return Authorization before returning any product to the Factory Service Center. Contact the number below or your authorized LG®Brand repair facility for details.

Before you call for warranty service, check your operating guide – you may avoid a service call.

LG®Brand Customer Interactive Center
P. O. Box 240007
201 James Record Road
Huntsville, Alabama 35824
ATTN: CIC

Telephone number: 1-800-243-0000
This number is a toll-free number
Follow menu prompts when the call is answered

Web address: www.lgservice.com

Telephone Center Hours of Operation:
24 hours a day, 365 days per year

Service for your LG®Brand Rear Projection Television is provided through LG Electronics Alabama, Inc., the authorized LG®Brand Service Center for the United States.

LG®Brand LCOS Rear Projection Televisions are marketed and distributed in the United States by LG Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069.



LG® Brand
 LCoS Rear Projection Television
 U.S. Limited Warranty

Your LG® brand LCoS Rear Projection Television will be repaired or replaced as set forth below, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States.

<p>WARRANTY PERIOD:</p> <p>LABOR: One Year from the Date of Purchase. Your unit will be repaired or replaced with a new, substitute model or factory reconditioned unit, at the manufacturer's option. If repair, parts used in the repair may be new or remanufactured.</p> <p>Parts: One Year from the Date of Purchase.</p> <p>Halogen Bulb: One Year from the Date of Purchase.</p> <p>Replacement Units and Repair Parts are warranted for the remaining portion of the original unit's warranty period.</p> <p>EFFECTIVE DATE OF WARRANTY: Your warranty period begins on the date of sale to the original consumer / end user. KEEP THE DEALER'S DATED BILL OF SALE OR PROOF OF DELIVERY as evidence of the purchase date. You will be required to submit a legible copy of your bill of sale or proof of delivery when requesting warranty service.</p>	<p>In-Home Service is available on this Unit, as provided in this Warranty. Please retain dealer's dated bill of sale or delivery ticket as evidence of the Date of Purchase for proof of warranty, and submit a copy of the bill of sale to the service person at the time warranty service is provided.</p> <p>Please call</p> <p style="text-align: center;">1-800-243-0000</p> <p>To locate your nearest LG® Brand Authorized Service Center and to schedule a service appointment.</p> <p>For further Instructions, see "For Service" below</p>
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THIS LIMITED WARRANTY DOES NOT APPLY TO:

<ul style="list-style-type: none"> ● damage caused in shipping or transit ● service required as a result of improper installation, including incorrect or insufficient AC supply (please consult the owner's manual for power supply requirements). ● installation or repair of antenna systems, cable converters, cable company supplied equipment, or other components in a video system ● set-up or adjustment on consumer controls, or damage caused by improper adjustments ● damage caused by other system components ● any unit that has been modified or incorporated into any other product ● replacement of batteries on the remote control. ● replacement of the Halogen Bulb except within the first 90 days 	<ul style="list-style-type: none"> ● damage (including cosmetic damage), failure, loss or personal injury due to misuse, abuse, negligence, improper maintenance or storage, or to acts of nature or other causes beyond our control. (Causes beyond our control include but are not limited to lightning strike, power surges, power outages and water damage.) ● repair or replacement of warranted parts by other than an LG® Brand authorized service centers. ● units purchased or serviced outside of the U.S.A. ● product where the original factory serial numbers have been removed, defaced or changed in any way. ● product sold and labeled as "as is, where is" or similar disclaimer.
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The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

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