IMPORTANT INFORMATION

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

The lightning flash with arrow-head 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 a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

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.
IMPORTANT INFORMATION

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

CAUTION:
DO NOT PLACE THIS PRODUCT ON AN UNSTABLE CART, STAND, TRIPOD, BRACKET, OR TABLE. THE PRODUCT MAY FALL CAUSING SERIOUS PERSONAL INJURY AND SERIOUS DAMAGE TO THE PRODUCT. USE ONLY WITH A CART, STAND, TRIPOD, BRACKET, OR TABLE RECOMMENDED BY THE MANUFACTURER OR SOLD WITH THE PRODUCT. FOLLOW THE MANUFACTURER’S INSTRUCTIONS WHEN INSTALLING THE PRODUCT AND USE MOUNTING ACCESSORIES RECOMMENDED BY THE MANUFACTURER. A PRODUCT AND CART COMBINATION SHOULD BE MOVED WITH CARE. QUICK STOPES, EXCESSIVE FORCE, AND UNEVEN SURFACES MAY CAUSE THE PRODUCT AND CART COMBINATION TO OVERTURN.

WARNING: FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user’s authority to operate this equipment.

CAUTION:
This product satisfies FCC regulations when shielded cables and connectors are used to connect the unit to other equipment. To prevent electromagnetic interference with electric appliances such as radios and televisions, use shielded cables and connectors for connections.

DECLARATION OF CONFORMITY
SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-37G4U (Display).
SHARP LIQUID CRYSTAL TELEVISION, MODEL LC-32G4U (Display).
SHARP LIQUID CRYSTAL TELEVISION, MODEL TU-GA1U-S (AVC System).
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
RESPONSIBLE PARTY:
SHARP ELECTRONICS CORPORATION
Sharp Plaza, Mahwah, New Jersey 07430-2135
TEL: 1-800-BE-SHARP
For Business Customers: URL http://www.sharpusa.com

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.

“Note to CATV system installer: This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the National Electrical Code 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.”

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org

Trademarks

• Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.

• Manufactured under license from BBE Sound, Inc. Licensed by BBE Sound, Inc. under USP4638298, 5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.
DEAR SHARP CUSTOMER

Thank you for your purchase of the Sharp Liquid Crystal Television. To ensure safety and many years of trouble-free operation of your product, please read the Important Safety Precautions carefully before using this product.

IMPORTANT SAFETY INSTRUCTIONS

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your Liquid Crystal Television, please read the following precautions carefully before using the product.

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 and 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.
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 been exposed to rain or moisture, does not operate normally, or has been dropped.
15) Power Sources — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
16) Overloading — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
17) Object and Liquid Entry — Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
18) Damage Requiring Service — Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
   a) When the AC cord or plug is damaged,
   b) If liquid has been spilled, or objects have fallen into the product,
   c) If the product has been exposed to rain or water,
   d) If the product 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 product to its normal operation,
   e) If the product has been dropped or damaged in any way, and
   f) When the product exhibits a distinct change in performance – this indicates a need for service.
19) Replacement Parts — When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
20) Safety Check — Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
21) Wall or ceiling mounting — When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer.
IMPORTANT SAFETY INSTRUCTIONS

• Water and Moisture — Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

• Stand — Do not place the product on an unstable cart, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer’s instructions. Use only the mounting hardware recommended by the manufacturer.

• Ventilation — The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer’s instructions are followed.

• The Liquid Crystal panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the panel breaks.

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

• The Liquid Crystal panel is a very high technology product with 3,147,264 thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

Precautions when transporting the Display
When transporting the Display, never carry it by holding onto the speaker. Be sure to always carry the Display by two people holding it with two hands—one hand on each side of the Display.

• Lightning — For added protection for this television equipment during 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. This will prevent damage to the equipment due to lightning and power-line surges.

• 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.
IMPORTANT SAFETY INSTRUCTIONS

• Outdoor Antenna Grounding — If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard 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.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70

• To prevent fire, never place any type of candle or naked flames on the top or near the TV set.

• To prevent fire or shock hazard, do not expose this product to dripping or splashing. No objects filled with liquids, such as vases, should be placed on the product.

• To prevent fire or shock hazard, do not place the AC power cord under the TV set or other heavy items.

• Turn off the main power and unplug the AC cord from the wall outlet before handling.
• Use a soft cloth and gently wipe the surface of the display panel. Using a hard cloth may scratch the panel surface.
• Use a soft damp cloth to gently wipe the panel when it is really dirty. (It may scratch the panel surface when wiped strongly.)
• If the panel is dusty, use an anti-static brush, which is commercially available, to clean it.
• To protect the panel, do not use a dirty cloth, liquid cleaners or chemical cloth to clean it, such materials may damage the panel surface.

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  - Foreground Opacity .................................. XX
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### Supplied accessories

Make sure the following accessories are provided with the product.

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<thead>
<tr>
<th>Remote control unit (× 1)</th>
<th>“AAA” size battery (× 2)</th>
<th>System cable (× 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Remote control unit" /></td>
<td><img src="#" alt="“AAA” size battery" /></td>
<td><img src="#" alt="System cable" /></td>
</tr>
<tr>
<td>RRMCGA263WJSA&lt;br&gt;Page XX</td>
<td>Page XX</td>
<td>QCNW-B856WJZZ&lt;br&gt;Page XX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stand unit (for AVC System) (× 1)</th>
<th>AC cord (× 1)</th>
<th>RF cable (× 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="#" alt="Stand unit" /></td>
<td><img src="#" alt="AC cord" /></td>
<td><img src="#" alt="RF cable" /></td>
</tr>
<tr>
<td>GDAI-A104WJ5B&lt;br&gt;PSPAHA314WJZZ&lt;br&gt;GLEGGA013WJZZ&lt;br&gt;XBPSN50P16JS0&lt;br&gt;Stand (× 1)&lt;br&gt;Stand spacer (× 4)&lt;br&gt;Stand cushion (× 4)&lt;br&gt;Stand screw (× 2)&lt;br&gt;Page XX</td>
<td>QACCDA019WJPZ&lt;br&gt;Page XX</td>
<td>QCNW-A342WJZZ&lt;br&gt;Pages XX and XX</td>
</tr>
</tbody>
</table>

#### Operation manual (× 1)

<table>
<thead>
<tr>
<th><img src="#" alt="Operation manual" /></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pages XX and XX</td>
</tr>
</tbody>
</table>

### NOTE

- Always use the AC cord supplied with the Liquid Crystal Television and the one supplied with the AVC System for each respective unit.
- AC cords enclosed in this product are for 110-125V. When using this product on the 220-240V, please order and use “QACCZA036WJPZ” as an option in this manual.

**SHARP ELECTRONICS CORPORATION**

6100 Blue Lagoon Drive, Suite 230, Miami, Florida 33126, U.S.A.
Supplied accessories

Make sure the following accessories are provided with the product.

**Display: LC-37G4U**

<table>
<thead>
<tr>
<th>AC cord (× 1)</th>
<th>Cable clamp (× 1)</th>
<th>Bracket unit (× 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="QACCDA019WJPZ.png" alt="Cable" /></td>
<td><img src="LHLDW0110CEZZ.png" alt="Cable clamp" /></td>
<td><img src="CHLDZA331WJ02.png" alt="Bracket unit" /></td>
</tr>
</tbody>
</table>
| QACCDA019WJPZ  
Page XX | LHLDW0110CEZZ  
Page XX | CHLDZA331WJ02  
Page XX |

**Speaker unit (× 1)**

- ![Left speaker](leftspeaker.png)  
  Left speaker  
  DSP-ZA053UJ03  
  Page XX
- ![Right speaker](rightspeaker.png)  
  Right speaker  
  DSP-ZA053UJ04  
  Page XX

**Display: LC-32G4U**

<table>
<thead>
<tr>
<th>AC cord (× 1)</th>
<th>Cable clamp (× 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="QACCDA019WJPZ.png" alt="Cable" /></td>
<td><img src="LHLDW0110CEZZ.png" alt="Cable clamp" /></td>
</tr>
</tbody>
</table>
| QACCDA019WJPZ  
Page XX | LHLDW0110CEZZ  
Page XX |
## Preparation

### Attaching speakers

**LC-37G4U**

<table>
<thead>
<tr>
<th>Step</th>
<th>Image</th>
<th>Instructions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="image1.png" alt="Image 1" /></td>
<td>Peel off the tape holding the ends of the cables, and move cables towards behind the display.</td>
</tr>
<tr>
<td>2</td>
<td><img src="image2.png" alt="Image 2" /></td>
<td>Hook the hole of the speaker to the screw of the Display.</td>
</tr>
<tr>
<td>3</td>
<td><img src="image3.png" alt="Image 3" /></td>
<td>Turn the speaker to the front of the Display (direction of the arrow) and fit it to the screw hole.</td>
</tr>
<tr>
<td>4</td>
<td><img src="image4.png" alt="Image 4" /></td>
<td>Fasten the screws.</td>
</tr>
<tr>
<td>5</td>
<td><img src="image5.png" alt="Image 5" /></td>
<td>Fasten the speaker cable with the holder.</td>
</tr>
<tr>
<td>6</td>
<td><img src="image6.png" alt="Image 6" /></td>
<td>Fix the speaker terminal cover.</td>
</tr>
<tr>
<td>7</td>
<td><img src="image7.png" alt="Image 7" /></td>
<td>Align the nub of the bracket into the groove and fasten it.</td>
</tr>
<tr>
<td>8</td>
<td><img src="image8.png" alt="Image 8" /></td>
<td>Fasten the bracket with the screw.</td>
</tr>
</tbody>
</table>

**NOTE**
- Perform the same steps for right speaker.
- To remove the speakers, perform the steps in reverse order.
Where to place the System

“System” means the Display and AVC System. First select the location where to place the System.

1. Selecting the location of the System

- Select a place with no direct sunlight and good ventilation.
- The Display and the AVC System are connected by the system cable. (See page XX for details.)

2. Setting the System in place

Handling the Display

- Do not remove the stand and speaker from the Display unless using an optional bracket to mount it.
- Keep enough space above and behind the Display.
- The Display weighs about XX kg (LC-37G4U) and XX kg (LC-32G4U). Move it with two or more people.
- When you move the Display, hold the portion of the Display, not the speaker.

Handling the AVC System

- Do not put a VCR or other device on the AVC System.
- Keep enough space above and on the sides of the AVC System.
- Do not block the ventilation openings on the top and left side, and the exhaust fan on the right side.
- Do not spread a thick cloth beneath the AVC System, or cover it with one, as this can cause overheating and result in malfunction.

Adjust the screen with both hands. Put one hand on the Display and tilt the screen while steadying the stand with your other hand. You can adjust the screen vertically up to 2 degrees forward or 6 degrees backward, or rotate 10 degrees horizontally.
Preparation

Setting the System
After putting the Display and the AVC System in place, connect the system cables and AC cords. Use the cable clamps for bundling the cables.

1. Removing the terminal cover
   - Display (rear view)
   - Press the two hooks toward the center of the Display and remove the cover toward you.
   - Press down the two upper hooks to remove the cover toward you.

2. Connecting the system cable and the AC cord to the Display
   - (WHITE) Connect the plug into the terminal and secure it by tightening the thumb screws.
   - (BLACK) Connect the plug firmly until the hooks on both sides click.
   - (GRAY) Connect the plug completely.
   - AC cord (with ferrite core)

3. Connecting the system cable and the AC cord to the AVC System
   - AVC System (rear view)
   - System cable
   - (BLACK) (WHITE) (GRAY)
   - AC cord

CAUTION
- TO PREVENT RISK OF ELECTRIC SHOCK, DO NOT TOUCH UN-INSULATED PARTS OF ANY CABLES WITH THE AC CORD CONNECTED.
4 Attaching the clamp and bundling the cables with the clamp

Cable clamp
Insert the cable clamp in the hole on the Display as shown.

Display (rear view)

Cables come out from the small opening.

5 Closing the terminal cover
Setting the AVC System with the stand

How to install the AVC System vertically using the stand unit.

- Use the supplied stand unit for installing the AVC System vertically in an upright position.

1. Stick each spacer to the stand as shown.
   Peel each spacer away from the paper and attach to the four bulging areas on the stand.

2. Attach each cushion to the stand as shown.
   Peel each cushion away from the paper and attach to the four areas at the bottom.

3. Fit the stand to the AVC System.
   Insert the stand into the AVC System, making sure that the thick and thin bulges of the stand align with the big and small holes on the AVC System.

4. Attach the stand using the stand screws as shown.

The AVC System installed vertically with the stand.

NOTE

- When mounting the AVC System vertically, always use the supplied stand. Be careful not to block vent holes when standing up directly on the floor or a flat surface as this can result in equipment failure.
**Removing speakers**

**LC-32G4U**

1. Unfasten the screw used to secure the speaker bracket.
2. Take off the speaker terminal cover.
3. Disconnect the cable from the speaker.
4. Take off the speaker cable cover.
5. Unfasten the screws.

**CAUTION**
- Do not remove the stand and speaker from the Display unless using an optional bracket to mount it.

**NOTE**
- Perform the same steps for right speaker.
- To attach the speakers, perform the steps in reverse order.
Preparation

Removing the stand

Before detaching (or attaching) stand, unplug the AC cord from the AC input and the system cable from the Display.

**CAUTION**

- Do not remove the stand from the Display unless using an optional wall mount bracket to mount it.

Before attaching/detaching stand

- Before performing work make sure to turn off the System.
- Before performing work spread cushioning over the base area to lay the Display on. This will prevent it from being damaged.

1. Unfasten the four screws used to secure the stand in place.

2. Detach the stand from the Display. (Hold the stand so it will not drop from the edge of the base area.)

**CAUTION**

- Do not remove the stand and speaker from the Display unless using an optional bracket to mount it.

**NOTE**

- To attach the stand, perform the above steps in reverse order.

Setting the Display on the wall

**CAUTION**

- Installing the Liquid Crystal Television requires special skill that should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper mounting or mounting that results in accident or injury.

Using an optional bracket to mount the Display

- You can ask a qualified service personnel about using an optional AN-37AG2 bracket to mount the Display to the wall.
- Carefully read the instructions that come with the bracket before beginning work.

Hanging on the wall

AN-37AG2 wall mount bracket. (See the bracket instructions for details.)

About setting the Display angle

**LC-37G4U**

- You can set the Display on the wall up to 5 degrees forward when the speakers are attached and up to 20 degrees forward when the speakers are not attached. Do not set the angle outside those ranges.

**LC-32G4U**

- You can set the Display on the wall up to 15 degrees forward when the speakers are attached and up to 20 degrees forward when the speakers are not attached. Do not set the angle outside those ranges.
Inserting the batteries

If the remote control fails to operate Liquid Crystal Television functions, replace the batteries in the remote control unit.

1. Open the battery cover.
2. Insert two “AAA” size batteries (supplied with the product).
3. Close the battery cover.

- Place the batteries with their terminals corresponding to the (+) and (−) indications in the battery compartment.

**CAUTION**

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

- Place the batteries with their terminals corresponding to the (+) and (−) indications.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control unit for an extended period of time, remove batteries from it.

Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor on the Display. Objects between the remote control unit and the remote control sensor may prevent proper operation.

Cautions regarding remote control unit

- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the remote control unit.
- The remote control unit may not work properly if the remote control sensor on the Display is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or the Display, or operate the remote control unit closer to the remote control sensor.
Part names

Display

![Diagram of display with labels]

- POWER indicator
- MAIN POWER button
- OPC sensor
- Display
- POWER button
- INPUT button
- VOLUME buttons (VOL−/+)
- CHANNEL buttons (CH/V/▲)
- Remote control sensor
- OPC sensor

*OPC: Optical Picture Control
(See page XX.)
**Part names**

**AVC System**

**Front view**

- STANDBY/ON indicator
- POWER button
- CARD indicator
- RESET* (When connecting headphones, the sound from the speakers is muted.)
- SYSTEM RESET**
- DC OUTPUT terminal (Terminal for expanded functionality in the near future.)
- EXTERNAL SPEAKER terminals
- CENTER CHANNEL INPUT

* If the AVC System is switched on but it does not appear to be operating correctly, it may need resetting. In this case, press **RESET**, shown in the diagram, lightly with the end of a ballpoint pen or other pointed object. This will reset the System as shown below.
  - AV MODE resets to STANDARD
  - TV channel returns to initial channel setting (Air:2ch, Cable:1 or 2ch)
  - Twin picture resets to normal
  - Audio setting initializes
  - Dolby virtual resets to Off
  - Image position initializes

**Rear view**

- Antenna (A) output terminal
- Antenna (B) input terminal
- Input 5 terminal (DVI-I)
- CENTER CHANNEL INPUT
- INPUT 5 terminal (AUDIO)
- INPUT 4 terminal (HDMI)
- DISPLAY OUTPUT 1 terminal
- DISPLAY OUTPUT 2 terminal
- DC OUTPUT terminal (Terminal for expanded functionality in the near future.)
- INPUT 1 COMPONENT video terminals (Y, Pb, Pr)
- INPUT 2 COMPONENT video terminals (Y, Pb, Pr)
- INPUT 1 terminal (VIDEO)
- INPUT 2 terminal (VIDEO)
- MONITOR OUTPUT terminal (VIDEO)
- MONITOR OUTPUT terminal (S-VIDEO)
- MONITOR OUTPUT terminals (AUDIO L/R)

**NOTE**

- Pressing **RESET** will not work if the System is in standby mode (indicator lights red).
- Pressing **RESET** will not delete channel preset or secret number. See page XX for clearing the secret number when you know it. See page XX for initializing to the factory preset values when you forget your secret number.
Part names

**Bottom view**

Remote control unit

1. **TV POWER**: Switch the Liquid Crystal Television power on or off. (See page XX.)
2. **DISPLAY**: Display the channel information.
3. **SOURCE POWER**: Turns the power of the external equipment on and off.
4. **External equipment operational buttons**: Operate the external equipment.
5. **0 ~ 9**: Set the channel.
6. **ANT-A/B**: Select between ANT-A and B to watch broadcasts via the two tuners.
7. **VOL +/-**: Set the volume. (See page XX.)
8. **CARD**: Switch to card mode.
9. **Virtual**: Select Virtual Dolby Surround settings. (See page XX.)
10. **EXIT**: Turn off the menu screen.
11. **SELECT**: Select the active screen. (See page XX.)
12. **TWIN PICTURE**: Set the twin picture mode. Press again to return to normal screen. (See page XX.)
13. **SLEEP**: Set the sleep timer. (See page XX.)
14. **AUDIO**: Select the MTS/SAP. (See page XX.)
15. **FUNCTION**: Switches the remote control for TV, VCR, AUDIO, CBL/SAT and DVD operation. Indicator lights up for the current mode. (See page XX to XX for details.)
16. **a/b/c/d**: When pressed all buttons on the remote control unit will light. The lighting will turn off if no operations are performed within about 5 seconds. This button is used for performing operations in dark places.
17. **VIEW MODE**: Select the screen size. (See pages XX and XX.)
18. **FLASHBACK**: Return to the previous channel or input external mode. (See page XX.)
19. **INPUT**: Select a Liquid Crystal Television input source. (TV, INPUT 1, INPUT 2, INPUT 3, INPUT 4, INPUT 5, Card) (See pages XX–XX and XX.)
20. **CH A/V**: Select the channel.
21. **MUTE**: Mute the sound. (See page XX.)
22. **MENU**: Display the menu screen.
23. **A/V/◄/►**: Select a desired item on the screen.
24. **RETURN**: Return to the previous menu screen.
25. **FAVORITE CH**
   A, B, C, D: Select four preset favorite channels in four different categories. (See page XX for details.) You can preset up to 32 favorite channels in advance.
   While watching, you can toggle the selected channels by pressing A, B, C and D.
26. **FREEZE**: Set the still image. Press again to return to normal screen. (See page XX.)
27. **CC**: Display captions during closed-caption source. (See page XX.)
28. **EDIT**: Register favorite channel.
29. **AV MODE**: Select an audio or video setting. (See page XX.) (AV mode: STANDARD, MOVIE, GAME, USER, DYNAMIC (Fixed), DYNAMIC. PC mode: STANDARD, USER.)

**NOTE**

- When using the remote control unit, point it at the Liquid Crystal Television.
Watching TV

Simple operations for watching a TV program

Antennas

To enjoy a clearer picture, use an outdoor antenna. The following is a brief explanation of the types of connections that are used for a coaxial cable. If your outdoor antenna uses a 75-ohm coaxial cable with an F-type connector, plug it into the antenna terminal at the rear of the AVC System.

NOTE

- The antenna and the cable converter cannot be connected at the same time.

1. A 75-ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools (Commercially available).

2. A 300-ohm system is a flat "twin-lead" cable that can be attached to a 75-ohm terminal through a 300/75-ohm adapter (Commercially available).

Cable converter/VCR connection

- Be sure to connect the antenna or the cable converter as follows. Signal reception may fail if improperly connected.
- Be sure to remember what kind of connection is made with your System.
- The connection type will determine whether to select “Air” or “Cable” for both ANT-A and B when configuring “Air/Cable” settings.

A-1. Connecting with Converter/Descrambler Box and VCR

- Be sure to remember what kind of connection is made with your System.
- Shown here is the preferred method of connecting a VCR and CATV Converter to your TV if you are in an area with good signal reception. This way you can view either TV programs or VCR tapes and not be concerned about the position of the VCR's TV/VCR switch and you can enjoy stereo tape playback from a stereo VCR.
A-2. Connecting with cable converter using AUX terminals for audio and video output.
(If your cable TV converter has both RF OUTPUT and AUX terminals, it is recommended to connect it as shown in example A-1.)

NOTE
• Be sure to remember what kind of connection is made with your System.
• Shown here is the preferred method of connecting a VCR and CATV Converter to your TV if you are in an area with good signal reception. This way you can view either TV programs or VCR tapes and not be concerned about the position of the VCR's TV/VCR switch and you can enjoy stereo tape playback from a stereo VCR.

B. Connecting with Converter/Descrambler Box without VCR

NOTE
• Be sure to remember what kind of connection is made with your System.
• Switching between Antenna-A and Antenna-B is possible by pressing the ANT-A/B button on the remote control.
• A good color picture depends on a good TV signal. So does good multi-channel sound. Ask your dealer for advice on how to install your outdoor antenna to receive the best possible signal.
• If you subscribe to Cable TV or have a central antenna for your building, you may not need an outdoor antenna.
C. Connecting Antenna Cable with VCR

NOTE

• Be sure to remember what kind of connection is made with your System.
• Shown here is the preferred method of connecting a VCR to your TV if you are in an area with good signal reception. This way you can view either TV programs or VCR tapes and not be concerned about the position of the VCR’s TV/VCR switch and you can enjoy stereo tape playback from stereo VCR.
• If your lead cable is a 300-ohm twin-lead cable or UHF/VHF separate cable, use a 300/75-ohm adapter or combiner (output side is 75-ohm coaxial) to connect to the TV (see below).

Outdoor antenna connection

Connecting Antenna Cable

F-type connector should be finger-tightened only.

When connecting the RF cable to the TV set, do not tighten F-type connector with tools.
If tools are used, it may cause damage to your TV set.
(The breaking of internal circuit, etc.)
Connecting the AC cord

Connect the AC cords after all component connections have been completed.

Display (rear view)

AVC System (rear view)

NOTE
- Always turn off the main power of the Display when connecting the AC cords.
- Disconnect the AC cords from the AC outlet, Display and AVC System when the System is not going to be used for a long period of time.
Watching TV

Turning on the power

Make sure that the system cable is connected before turning on the power.

1. Press MAIN POWER on the Display.
   - The POWER indicator on the Display lights up red.

2. Press POWER on the AVC System.
   - The System turns the power on.
   - The POWER indicator on the Display lights up green and the STANDBY/ON indicator on the AVC System lights up green.
   - If the STANDBY/ON indicator on the AVC System and the POWER indicator on the Display still light up red, press TV POWER on the remote control unit or POWER on the AVC System to turn the System on.

   NOTE
   - The initial setup starts when the System powers on for the first time. If the System has been turned on before, the EZ setup will not be invoked. See page 27 to try EZ setup from the Setup menu.

Turning off the power

Press TV POWER on the remote control unit or POWER button on the Display.
- The System enters standby mode and the image on the screen disappears.
- Both the STANDBY/ON indicator on the AVC System and the POWER indicator on the Display change from green to red.

Press MAIN POWER on the Display.
- The POWER indicator on the Display gradually turns off.

   NOTE
   - If you are not going to use this System for a long period of time, be sure to remove the AC cords from the power outlet.

Display status indicator

<table>
<thead>
<tr>
<th>Off</th>
<th>Power off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>The System is in standby mode.</td>
</tr>
<tr>
<td>Green</td>
<td>The System is on.</td>
</tr>
</tbody>
</table>

AVC System status indicator

<table>
<thead>
<tr>
<th>Off</th>
<th>Power off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>The System is in standby mode.</td>
</tr>
<tr>
<td>Green</td>
<td>The System is on or only the AVC System is on.</td>
</tr>
</tbody>
</table>

NOTE
- Check if the system cable is connected properly when display indicator flashes red.
Initial setup
Watching TV
When you turn on the System for the first time, it will automatically memorize the broadcasting channels where you live. Perform the following steps before you press TV POWER on the remote control unit.
1. Insert the batteries into the remote control unit. (See page XX.)
2. Connect the antenna cable to the AVC System. (See pages XX to XX.)
3. Plug in the AC cord to the AC outlet. (See page XX.)

Language setting
Select from among 3 languages: English, French and Spanish.

Press ▲/▼ to select the desired language listed on the screen, and then press ENTER.

Antenna setting
Make sure what kind of connection is made with your System when selecting “Air” or “Cable” for both ANT-A and B.

Press ▲/▼ to select “Air” or “Cable” for ANT-A, then press ▲/▼ to move down.
Press ▲/▼ to select “Air” or “Cable” for ANT-B.
Press ENTER to enter the setting.
• This operation makes the System search for both ANT-A and B.
• There are 3 kinds of CATV system, including Standard, HRC and IRC. Select the one matches to your system. Select Auto when you do not know which one to select.

Example

Channel search
Channel auto search makes the System look for all channels viewable in the set area.

Press ▲/▼ to select “Yes” for ANT-A, then press ▲/▼ to move down.
Press ▲/▼ to select “Yes” for ANT-B, then press ▲/▼ to move down to select “Search Start”, and press ENTER.

Example

NOTE
• Make sure what kind of connection is made with your System when selecting “Air” or “Cable” for both ANT-A and B.
• If no channel is found, make sure what kind of connection is made with your System and try EZ setup again (see page XX).
• The illustrations and on-screen displays in this operation manual are for explanation purposes and may vary slightly from the actual operations.
Watching TV

Simple button operations for changing channels

You can change channels in several ways.

**NOTE**
- While watching a broadcast, press ANT-A/B to view the image received from the other tuner.

### Using CH ▲/▲ on the remote control unit
- Press CH ▲ to increase the channel number.
- Press CH ▼ to decrease the channel number.

**NOTE**
- CH ▲/▲ on the Display operates the same as CH ▲/▼ on the remote control unit.

### Using CH ▲/▼ on the remote control unit
- Press CH ▲ to increase the channel number.
- Press CH ▼ to decrease the channel number.

### Changing channels with CH ▲/▼ on the remote control unit or CH ▲/▼ on the Display

**Air:** Press CH ▲ and the channel change in the order shown below:

- 2 → 3 → 4 → 5 → 6 → 7 → 8 → 9 → 2 → 3...

Press CH ▼ and the channel change in the order shown below:

- 3 → 2 → 6 → 8 → 9 → 3 → 2...

**Cable:** Press CH ▲ and the channel change in the order shown below:

- 1 → 2 → 3 → 4 → 5 → 125 → 1 → 2 → 3...

Press CH ▼ and the channel change in the order shown below:

- 3 → 2 → 1 → 125 → 3 → 2 → 1 → ...

### Using FLASHBACK on the remote control unit

Press FLASHBACK to switch the currently tuned channel to the previously tuned channel.

Press FLASHBACK again to switch back to the currently tuned channel.

Press FLASHBACK to toggle between the currently selected input source and the previously selected one.

**NOTE**
- FLASHBACK will not work if no channel has been changed after the System is turned on.

### Using 0 – 9 on the remote control unit

Select the channels directly by pressing buttons 0 to 9.
- The System allows you to select up to 125 channels (1 to 125). To select a channel, enter a 2 or 3-digit number.

**EXAMPLE**

To select a 1 or 2-digit channel number (e.g., Channel 5):

Complete the following steps within 3 seconds.

1. Press the 0 button.
   - Complete the step 2 within 3 seconds after the step 1.

2. Press the 5 button.

3. Press ENTER to enter the setting.
   - Channel selection will be made if there is no operations for 3 seconds.

**NOTE**
- When selecting a 1-digit channel number, do not fail to press the 0 button.

To select a 3-digit channel number (e.g., Channel 115):

Complete the following steps within 3 seconds.

1. Press the 1 button.
   - Complete the step 2 within 3 seconds after the step 1.

2. Press the 1 button again.
   - Complete the step 3 within 3 seconds after the step 2.

3. Press the 5 button.

4. Press ENTER to enter the setting.
   - Channel selection will be made if there is no operations for 3 seconds.
Simple button operations for changing volume/sound

Changing the volume
You can change the volume on the Display or on the remote control unit.

Using VOL +/- on the remote control unit
- To increase the volume, press VOL +.
- To decrease the volume, press VOL –.

NOTE
- VOL +/- on the Display operates the same as VOL +/- on the remote control unit.

Audio status

<table>
<thead>
<tr>
<th>Output device</th>
<th>Output Select</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fixed</td>
</tr>
<tr>
<td>Speaker</td>
<td>Variable sound</td>
</tr>
<tr>
<td>MONITOR OUT</td>
<td>Constant as specified</td>
</tr>
</tbody>
</table>

* When "Output Select" is set to "Variable", the indicator on the screen changes as shown below.

NOTE
- See page XX for details on the audio out function.

Using MUTE on the remote control unit
Mutes the current sound output.

1
Press MUTE.
- "M" has been displayed on the screen for 30 minutes, and the sound is silenced.

NOTE
- Within 30 minutes of pressing MUTE, mute can be canceled by using one of the methods below.
  - Pressing VOL +/- on the Display or VOL +/-, MTS or MUTE on the remote control unit can also cancel the mute.
  - Mute will be canceled after 30 minutes have passed. However, the System will not suddenly output a loud sound as the volume level is set to 0 automatically.

2
Within 30 minutes, press MUTE again to cancel the mute.
- Before 30 minutes, the volume level returns to the previous setting.
- After 30 minutes, increase the volume level by pressing VOL +.

Using Virtual on the remote control unit

Virtual produces Dolby virtual effect from the speakers. Each time you press Virtual, the mode changes between On and Off.

Dolby Virtual sound options
- On: Makes it possible to enjoy natural, realistic surround sound.
- Off: Outputs the normal sound.

NOTE
- You can have the same settings by choosing "Dolby Virtual" on the menu items. (See page XX.)
Setting MTS/SAP stereo mode

The System has a feature that allows reception of sound other than the main audio for the program. This feature is called Multi-channel Television Sound (MTS). The System with MTS can receive mono sound, stereo sound and Secondary Audio Programs (SAP). The SAP feature allows a TV station to broadcast other information, which could be audio in another language or something completely different like weather information.

You can enjoy Hi-Fi stereo sound or SAP broadcasts where available.

- **Stereo broadcasts**
  View programs like live sporting events, shows and concerts in dynamic stereo sound.

- **SAP broadcasts**
  Receive TV broadcasts in either MAIN or SAP sound.
  MAIN sound: The normal program soundtrack (either in mono or stereo).
  SAP sound: Listen to second language, supplementary commentary and other information. (SAP is mono sound.)

If stereo sound is difficult to hear.
- Obtain a clearer sound by manually switching to fixed mono-sound mode.

Examples: when receiving MTS and SAP

<table>
<thead>
<tr>
<th>STEREO mode</th>
<th>MAIN + SAP mode</th>
<th>STEREO + SAP mode</th>
<th>MONO mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT-A Air</td>
<td>ANT-A Air</td>
<td>ANT-A Air</td>
<td>ANT-A Air</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Audio: STEREO</td>
<td>Audio: MAIN</td>
<td>Audio: SAP</td>
<td>Audio: MONO</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Audio: MONO</td>
<td>Audio: SAP</td>
<td>Audio: SAP</td>
<td>Audio: MONO</td>
</tr>
</tbody>
</table>

**NOTE**

- Once “MONO” mode is selected, the sound remains mono even if the System receives a stereo broadcast. You must switch the mode back to “STEREO” if you want to hear stereo sound again.
- Selecting MTS while in the input mode does not change the type of sound. In this case, sound is determined by the video source.

Each time you press **AUDIO**, MTS toggles as shown below.
### AV input mode menu items

List of AV menu items to help you with operations

- **OPC** ........................................... Page XX
- **Backlight** .................................. Page XX
- **Contrast** ..................................... Page XX
- **Brightness** .................................. Page XX
- **Color** ........................................ Page XX
- **Tint** .......................................... Page XX
- **Sharpness** ................................. Page XX
- **Advanced**
  - **C.M.S.** .................................. Page XX
  - **Color Temp.** .......................... Page XX
  - **Black** ...................................... Page XX
  - **3D-Y/C** ................................. Page XX
  - **Monochrome** ........................... Page XX
  - **Film Mode** .............................. Page XX
  - **I/P Setting** ............................ Page XX

- **Treble** ....................................... Page XX
- **Bass** .......................................... Page XX
- **Balance** ..................................... Page XX
- **Dolby Virtual** ............................ Page XX

- **No Signal Off** ............................ Page XX
- **No Operation Off** ....................... Page XX

- **EZ Setup** .................................. Page XX
- **CH Setup** ................................. Pages XX-XX
- **Speaker** ................................. Page XX
- **Input Label** .............................. Page XX
- **Input Signal** ............................. Page XX
- **Parental CTRL** .......................... Pages XX-XX
- **Position** .................................... Page XX
- **Picture Flip** .............................. Page XX
- **Language** .................................... Page XX

- **Audio Only** ............................... Page XX
- **Digital Noise Reduction** .............. Page XX
- **Input Select** ............................... Page XX
- **Output Select** ............................ Page XX
- **Quick Shoot** .............................. Page XX
- **Center Channel Input** .................. Page XX
- **Caption Setup** ........................... Page XX

### PC input mode menu items

List of PC menu items to help you with operations

- **OPC** ........................................... Page XX
- **Backlight** .................................. Page XX
- **Contrast** ..................................... Page XX
- **Brightness** .................................. Page XX
- **Red** .......................................... Page XX
- **Green** ....................................... Page XX
- **Blue** ......................................... Page XX
- **Advanced**
  - **C.M.S.** .................................. Page XX

- **Treble** ....................................... Page XX
- **Bass** .......................................... Page XX
- **Balance** ..................................... Page XX
- **Dolby Virtual** ............................ Page XX

- **Power Management** ..................... Page XX
- **Speaker** ................................. Page XX
- **Input Signal** .............................. Page XX
- **Auto Sync.** ................................ Page XX
- **Fine Sync.** ................................ Page XX
- **Picture Flip** .............................. Page XX
- **Language** .................................... Page XX

- **Audio Only** ............................... Page XX
- **Input Select** ............................... Page XX
- **Output Select** ............................ Page XX
- **Quick Shoot** .............................. Page XX

- **Power Control**

- **Setup**

- **Option**

- **Audio Only** ............................... Page XX
- **Output Select** ............................ Page XX
- **Quick Shoot** .............................. Page XX

- **Caption Setup** ........................... Page XX
Basic adjustment settings

**EZ setup**
You can run EZ Setup again, even after setting up the preset channels.

**Language setting**
Select from among 3 languages: English, French and Spanish.

1. Press MENU and the MENU screen displays.

2. Press  to select “Setup”.

3. Press  to select “EZ Setup”, and then press ENTER.
   - If you already set the Secret No., go to step 4. If not, skip to step 5.

4. Input the 4-digit secret number by using 0 – 9.

5. Press  to select the desired language listed on the screen, and then press ENTER.

6. Press  to select “Air” or “Cable” for ANT-A, then press  to move down.
   Press  to select “Air” or “Cable” for ANT-B.
   Press ENTER to enter the setting.
   - This operation makes the System search for both ANT-A and B.
   - There are 3 kinds of CATV system, including Standard, HRC and IRC. Select the one matches to your system. Select Auto when you do not know which one to select.

7. Press  to select “Yes” for ANT-A, then press  to move down.
   Press  to select “Yes” for ANT-B, then press  to move down to select “Search Start”, and press ENTER.

**Antenna setting**
Make sure what kind of connection is made with your System when selecting “Air” or “Cable” for both ANT-A and B.

**Channel search**
Channel auto search makes the System look for all channels viewable in the set area.

**NOTE**
- If no channel is found, make sure what kind of connection is made with your System and try EZ setup again.
- Make sure what kind of connection is made with your System when selecting “Air” or “Cable” for both ANT-A and B.
Basic adjustment settings

Channel setup
If initial setup does not memorize all the channels in your region, follow the instructions below to manually memorize the channels.

If you already set the Secret No., input the 4-digit secret number here. See page XX for setting a secret number.

Antenna setting

1. Press MENU and the MENU screen displays.
2. Press ▼ to select "Setup".
3. Press ▲/▼ to select "CH Setup", and then press ENTER.
   • If you already set the Secret No., input the 4-digit secret number here. See page XX for setting a secret number.
4. Press ▲/▼ to select "Air/Cable", and then press ENTER.
5. Press ▲/▼ to select “Air” or “Cable” for ANT-A, then press ▲/▼ to move down.
   Press ▲/▼ to select “Air” or “Cable” for ANT-B.
   Press ENTER to enter the setting.

Example

<table>
<thead>
<tr>
<th>Air/Cable</th>
<th>CH Search</th>
<th>CH Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ANT-A</td>
<td>Air</td>
</tr>
<tr>
<td></td>
<td>ANT-B</td>
<td>Air</td>
</tr>
</tbody>
</table>

NOTE
- Make sure what kind of connection is made with your System.
- There are 3 kinds of CATV system, including Standard, HRC and IRC. Select the one matches to your system. Select Auto when you do not know which one to select.

Channel search
Channel auto search makes the System look for all channels viewable in the set area.

1. Press MENU and the MENU screen displays.
2. Press ▲/▼ to select “Setup”.
3. Press ▲/▼ to select "CH Setup", and then press ENTER.
   • If you already set the Secret No., input the 4-digit secret number here. See page XX for setting a secret number.
4. Press ▲/▼ to select “CH Search”, and then press ENTER.
5. Press ▲/▼ to select “Yes” for ANT-A, then press ▲/▼ to move down.
   Press ▲/▼ to select “Yes” for ANT-B, then press ▲/▼ to move down to select “Search Start”, and press ENTER.

Example

<table>
<thead>
<tr>
<th>Air/Cable</th>
<th>CH Search</th>
<th>CH Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ANT-A</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>ANT-B</td>
<td>Yes</td>
</tr>
</tbody>
</table>

NOTE
- Make sure what kind of connection is made with your System.
Basic adjustment settings

Channel memory setting

1. Press **MENU** and the MENU screen displays.

2. Press **</>** to select “Setup”.

3. Press **</>** to select “CH Setup”, and then press **ENTER**.
   - If you already set the Secret No., input the 4-digit secret number here. See page XX for setting a secret number.

4. Press **</>** to select “CH Memory”, and then press **ENTER**.

   Example

<table>
<thead>
<tr>
<th>MENU</th>
<th>Setup - CH Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air/Cable</td>
<td>Cable [2] 125</td>
</tr>
<tr>
<td>CH Search</td>
<td>Skip</td>
</tr>
<tr>
<td>CH Memory</td>
<td>ANT-A</td>
</tr>
</tbody>
</table>

5. Press **</>** to select ANT-A or B.

6. Press **</>** and press **</>** to select the channel you want to skip or not.

7. Press **</>** to select “Skip”, and press **</>** to select “On” or “Off”.
   - On: Skips channels. (Channel selection disabled using **CH<>/\**.)
   - Off: Does not skip channels. (Channel selection enabled using **CH<>/\**.)

**NOTE**
- Make sure what kind of connection is made with your System.
Basic adjustment settings

**Favorite channel setting**

This function allows you to program 4 favorite channels, in 4 different categories. By setting the favorite channels in advance, you can select your favorite channels easily.

1. Select the channel you want to register as a favorite channel.
2. Press EDIT.
3. Press ▲/▼ to select “Register”, and then press ENTER.
4. Press ▲/▼/◄ to select the position in the area, and then press ENTER to register.

**Delete favorite channel**

1. Press EDIT and the favorite channel screen displays.
2. Press ▲/▼ to select “1 Data Clear”, and then press ENTER.

**NOTE**

- You can delete all the favorite channels by selecting “All Data Clear” at step 2 in Delete favorite channel.
Basic adjustment settings

Language setting

You can also select a language from the Setup menu. Select from among 3 languages: English, French and Spanish.

1. Press MENU and the MENU screen displays.

2. Press ◀ to select “Setup”.

3. Press ▲/▼ to select “Language”, and then press ENTER.

4. Press ▲/▼ to select the desired language listed on the screen, and then press ENTER.
Basic adjustment settings

OPC setting
Automatically adjusts the brightness of the screen.

Press \[c/d\] to select “Picture”.

Press \[c/d\] to select “OPC”.

Press \[a/b\] to select “OPC”.

Press \[a/b\] to select “On”.

Press \[c/d\] to select “Picture”.

Press \[a/b\] to select “On”.

Press \[c/d\] to select “OPC”.

Press \[a/b\] to select “On”.

Press \[c/d\] to select “OPC”.

Press \[a/b\] to select “On”.

NOTE

- When set to “On”, senses the surrounding light and automatically adjusts the backlight brightness. Make sure no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.
Basic adjustment settings

**Picture adjustments**
Adjusts the picture to your preference with the following picture settings.

1. Press **MENU** and the MENU screen displays.
2. Press `</>` to select “Picture”.
3. Press `</>` to select a specific adjustment item.
4. Press `</>` to adjust the item to your desired position.

### Adjustments items for AV source

#### USER TV
- **OPC**: Off, On
- **Backlight**: [-8] ~ [+8]
- **Contrast**: [0] ~ [+30]
- **Brightness**: [0] ~ [-30]
- **Color**: [0] ~ [+30]
- **Tint**: [0] ~ [-30]
- **Sharpness**: [0] ~ [-30]
- **Advanced**
- **Reset**

#### Adjustments items for PC source

#### USER PC
- **OPC**: Off, On
- **Backlight**: [-8] ~ [+8]
- **Contrast**: [0] ~ [+30]
- **Brightness**: [0] ~ [-30]
- **Red**: [0] ~ [+30]
- **Green**: [0] ~ [+30]
- **Blue**: [0] ~ [+30]
- **Advanced**
- **Reset**

<table>
<thead>
<tr>
<th>Selected item</th>
<th>&lt;button&gt;</th>
<th>➤button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backlight</td>
<td>The screen dims</td>
<td>The screen brightens</td>
</tr>
<tr>
<td>Contrast</td>
<td>For less contrast</td>
<td>For more contrast</td>
</tr>
<tr>
<td>Brightness</td>
<td>For less brightness</td>
<td>For more brightness</td>
</tr>
<tr>
<td>Color</td>
<td>For less color intensity</td>
<td>For more color intensity</td>
</tr>
<tr>
<td>Tint</td>
<td>Skin tones become purplish</td>
<td>Skin tones become greenish</td>
</tr>
<tr>
<td>Sharpness</td>
<td>For less sharpness</td>
<td>For more sharpness</td>
</tr>
</tbody>
</table>

### NOTE
- For resetting all adjustment items to factory preset values, press `</>` to select “Reset”, press **ENTER**, press `</>` to select “Yes”, and then press **ENTER**.

- For resetting all adjustment items to factory preset values, press `</>` to select “Reset”, press **ENTER**, press `</>` to select “Yes”, and then press **ENTER**.

- Select “Advanced” and then press **ENTER** to set “C.M.S.-Hue”, “C.M.S-Saturation”, “C.M.S-Value”, “Color Temp.”, “Black”, “3D-Y/C”, “Monochrome”, “Film Mode” or “I/P Setting”. See pages XX to XX.
Basic adjustment settings

C.M.S. (Color Management System)
Color tone is managed using the six-color adjustment setting.

Press MENU and the MENU screen displays.

1. Press 
2. Press 
3. Press 

Press ENTER.

4. Press 

5. Press 

AV input mode

C. M. S-Hue
Changing reds closer to magenta or yellow.

NOTE
• For resetting all adjustment items to the factory preset values, press 
• To perform “C.M.S-Saturation” or “C.M.S-Value”, select the one you like to adjust in step 4 above and follow the step 5 to adjust the items.

PC input mode

C. M. S-Hue
Changing reds closer to magenta or yellow.

NOTE
• For resetting all adjustment items to the factory preset values, press 
• To perform “C.M.S-Saturation” or “C.M.S-Value”, select the one you like to adjust in step 4 above and follow the step 5 to adjust the items.
Basic adjustment settings

**Color temperature**

Adjusts the color temperature to give a better white balance.

1. Press MENU and the MENU screen displays.
2. Press \\
   to select “Picture”.
3. Press \\
   to select “Advanced”, and then press ENTER.

   **USER TV**

<table>
<thead>
<tr>
<th>OPC</th>
<th>Off</th>
<th>On</th>
<th>On - Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backlight</td>
<td>+8</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>Contrast</td>
<td>+30</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Brightness</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Tint</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Sharpness</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

   **Selected item**

<table>
<thead>
<tr>
<th>Black</th>
<th>3D-Y/C</th>
<th>Monochrome</th>
<th>Film Mode</th>
<th>Input Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>On</td>
<td>Off</td>
<td>Off</td>
<td>On</td>
</tr>
<tr>
<td>Mid-High</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Middle</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mid-Low</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Press \\
   to select “Black”, and then press ENTER.

5. Press \\
   to select the desired level, and then press ENTER.

<table>
<thead>
<tr>
<th>Selected item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>White with Bluish tone</td>
</tr>
<tr>
<td>Mid-High</td>
<td>White with Bluish tone</td>
</tr>
<tr>
<td>Middle</td>
<td>White with Bluish tone</td>
</tr>
<tr>
<td>Mid-Low</td>
<td>White with Bluish tone</td>
</tr>
<tr>
<td>Low</td>
<td>White with Bluish tone</td>
</tr>
</tbody>
</table>

Black

For easier viewing, change the viewing depth by selecting a level for automatically adjusting the dark portion of an image.

1. Press MENU and the MENU screen displays.
2. Press \\
   to select “Picture”.
3. Press \\
   to select “Advanced”, and then press ENTER.

4. Press \\
   to select “Black”, and then press ENTER.

5. Press \\
   to select “On”, and then press ENTER.

<table>
<thead>
<tr>
<th>Selected item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>No adjustment</td>
</tr>
<tr>
<td>On</td>
<td>For high detail in black portions</td>
</tr>
</tbody>
</table>
Basic adjustment settings

**3D-Y/C**
Provides high quality images with minimal dot crawl and cross color noise.

1. Press MENU and the MENU screen displays.
2. Press ◄/► to select “Picture”.
3. Press ▲/▼ to select “Advanced”, and then press ENTER.
4. Press ▲/▼ to select “3D-Y/C”, and then press ENTER.
5. Press ▲/▼ to select the desired level, and then press ENTER.

<table>
<thead>
<tr>
<th>Selected item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Normal adjustment</td>
</tr>
<tr>
<td>Fast</td>
<td>For movie image</td>
</tr>
<tr>
<td>Slow</td>
<td>For still image</td>
</tr>
</tbody>
</table>

**Monochrome**
For viewing a video in monochrome.

1. Press MENU and the MENU screen displays.
2. Press ◄/► to select “Picture”.
3. Press ▲/▼ to select “Advanced”, and then press ENTER.
4. Press ▲/▼ to select “Monochrome”, and then press ENTER.
5. Press ◄/► to select “On”, and then press ENTER.

<table>
<thead>
<tr>
<th>Selected item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Normal color</td>
</tr>
<tr>
<td>On</td>
<td>For viewing in monochrome</td>
</tr>
</tbody>
</table>

**NOTE**
- “3D-Y/C” is not selectable when receiving images from DVI or component video terminals.
Basic adjustment settings

**Film mode (3:2 pull-down)**
Automatically detects a film-based source (originally encoded at 24 frames/second), analyzes it, and recreates each still film frame for high-definition picture quality.

Press MENU and the MENU screen displays.

Press \[\text{[ } / \text{ ]}\] to select “Picture”.

Press \[\text{[ } / \text{ ]}\] to select “Advanced”, and then press ENTER.

Press \[\text{[ } / \text{ ]}\] to select “Film Mode”, and then press ENTER.

- Some items may be grayed out. They are not selectable.

Press \[\text{[ } / \text{ ]}\] to select “On”, and then press ENTER.

### Description

<table>
<thead>
<tr>
<th>Selected item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Normal viewing mode</td>
</tr>
<tr>
<td>On</td>
<td>Detects, analyzes, converts film source</td>
</tr>
</tbody>
</table>

**I/P Setting**
Adjusting the image and input signal can give you a more beautiful picture.

Press MENU and the MENU screen displays.

Press \[\text{[ } / \text{ ]}\] to select “Picture”.

Press \[\text{[ } / \text{ ]}\] to select “Advanced”, and then press ENTER.

Press \[\text{[ } / \text{ ]}\] to select “I/P Setting”, and then press ENTER.

- Some items may be grayed out. They are not selectable.

Press \[\text{[ } / \text{ ]}\] to select “Interlace” or “Progressive”, and then press ENTER.

### NOTE
- I/P Setting is set to Progressive when Film Mode is “On”.
- “I/P Setting” is not selectable when channel display shows an input resolution of 480P, 720P or 1080I.
Basic adjustment settings

Sound adjustment
You can adjust the sound quality to your preference with the following settings.

1. Press MENU and the MENU screen displays.

2. Press ◄/► to select “Audio”.

3. Press ▲/▼ to select a specific adjustment item.

4. Press ◄/► to adjust the item to your desired position.

<table>
<thead>
<tr>
<th>Selected item</th>
<th>◄button</th>
<th>►button</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treble</td>
<td>For weaker treble</td>
<td>For stronger treble</td>
</tr>
<tr>
<td>Bass</td>
<td>For weaker bass</td>
<td>For stronger bass</td>
</tr>
<tr>
<td>Balance</td>
<td>Decrease audio from the right speaker</td>
<td>Decrease audio from the left speaker</td>
</tr>
</tbody>
</table>

NOTE: Audio menu is grayed out when Output Select is set to “Variable” or when headphones are in use.
Balance and Audio Quality Control are grayed out when Dolby Virtual is set to “On”.
For resetting all adjustment items to factory preset values, press ▲/▼ to select “Reset”, press OK, press ◄/► to select “Yes”, and then press OK.

Dolby virtual
You can enjoy the SURROUND 2ch stereo with Dolby Pro Logic II technology.

VIRTUAL DOLBY SURROUND is a technology certified by Dolby Laboratories that creates a virtualized surround sound experience from two speakers using Dolby Pro Logic or Dolby Pro Logic II.

VIRTUAL DOLBY SURROUND retains all the original multichannel audio information and provides the listener with the sensation of being surrounded by additional speakers.

1. Press MENU and the MENU screen displays.

2. Press ◄/► to select “Audio”.

3. Press ▲/▼ to select “Dolby Virtual”, and then press ENTER.

4. Press ◄/► to select “On”, and then press ENTER.

NOTE:
• You can choose Dolby Virtual by pressing Virtual on the remote control unit. See page XX for Dolby Virtual.
• Audio menu is grayed out when Output Select is set to “Variable” or when headphones are in use.
• Balance and Audio Quality Control are grayed out when Dolby Virtual is set to “On”.
• For some discs, setup may be required on your DVD. In this case, please refer to the operation manual of your DVD player.
• You may not get the Dolby Virtual Surround effect if you adjust “Treble” or “Bass” setting.
Basic adjustment settings

**Power control**
Power control setting allows you to save energy.

**Power control for AV source**

**No signal off**
When set to “Enable”, the power will automatically shut down if no signal inputs for 15 minutes.

![Diagram](image)

1. Press **MENU** and the MENU screen displays.
2. Press **<>** to select “Power Control”.
3. Press **/>** to select “No Signal Off”, and then press **ENTER**.
   - **DISABLE**
   - **Enable**

   ![Menu Screen](image)

4. Press **/>** to select “Enable”, and then press **ENTER**.

   • Five minutes before the power shuts down, remaining time displays every minute.

**NOTE**
- “Disable” is factory preset value.
- When a TV program finishes, and the AVC System receives signal input, this function may not operate.

**No operation off**
When set to “Enable”, the power will automatically shut down if there is no operation for 3 hours.

![Diagram](image)

1. Press **MENU** and the MENU screen displays.
2. Press **<>** to select “Power Control”.
3. Press **/>** to select “No Operation Off”, and then press **ENTER**.
   - **DISABLE**
   - **Enable**

   ![Menu Screen](image)

4. Press **/>** to select “Enable”, and then press **ENTER**.

   • Five minutes before the power shuts down, remaining time displays every minute.

**NOTE**
- “Disable” is factory preset value.
### Basic adjustment settings

**Power control for PC source**

Power control setting allows you to save energy.

![Remote control diagram](image)

**Power management**

When set, the power will automatically shut down.

1. Press **MENU** and the MENU screen displays.
2. Press **⇦/⇨** to select “Power Control”.
3. Press **△/▽** to select “Power Management”, and then press **ENTER**.

   ![Menu screenshot](image)

4. Press **△/▽** to select “Mode1” or “Mode2”, and then press **ENTER**.

<table>
<thead>
<tr>
<th>Selected item</th>
<th>Description</th>
</tr>
</thead>
</table>
| Off           | • No power management  
                • Factory preset value. |
| Mode1         | • If no signal inputs for 8 minutes, the power shuts down.  
                • Even if you start using the PC and the signal inputs again, the System stays off.  
                • The System turns on again by pressing POWER button on the Display or TV POWER on the remote control unit. (See page XX). |
| Mode2         | • If no signal inputs for 8 seconds, the power shuts down.  
                • When you start using the PC and the signal inputs again, the System turns on. |
Using memory card

**Important notes on using memory cards**

- We will not be liable for misuse of the LCD TV set, any troubles during use, or other problems, or any damages arising out of the use of the LCD TV set, except for the cases for which we are liable by statute.
- If you or other people misuse the LCD TV set, or the LCD TV set is affected by static electricity or electrical noise, the recorded data may be in danger of being changed or lost.
- If you are making a record of importance, run a test in advance to ensure that the recording would be performed correctly in terms of picture or sound quality.
- We do not capture responsibility nor compensate even if pictures or sound could not be recorded correctly because of troubles.

**Copyright**

Duplicating images and music by copying and/or editing from videocassettes and/or TV programs that are subject to copyrights is only permitted when the edited or copied versions are used for personal pleasure. With the exception of cases when the user personally is the owner of the copyrights of the object in question or when specific and written permission has been obtained from the owner(s) of the object in question, the user is not permitted to make copies and/or duplications and/or edited versions as this constitutes a violation of the copyright laws, possible exposing the user to demands for compensation for damages. Therefore, strictly adhere to the existing copyright laws.

In addition when using image data that includes third parties, the use without prior permission of these images may constitute an intrusion on the privacy of third parties, so strictly refrain from such usage.

**The recording formats**

<table>
<thead>
<tr>
<th>Still picture</th>
<th>Recording/Playback file format</th>
<th>JPEG (DCF compliant)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of a captured still picture</td>
<td>640 × 480 dots</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Motion Picture</th>
<th>Recording file format</th>
<th>SP/LP... ASF (Motion Picture: MPEG-4 compliant, Sound: WMA-compliant) LP... ASF (Motion Picture: MPEG-4 compliant, Sound: G.726-compliant)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size of a recorded motion picture/number of frames</td>
<td>SP ... Size: 320 × 240 dots, Frame: approx. 30 frames/sec LP ... Size: 320 × 240 dots, Frame: approx. 30 frames/sec EP ... Size: 320 × 240 dots, Frame: approx. 15 frames/sec</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Playback file format</th>
<th>ASF (Motion Picture: MPEG-4 compliant, Sound: WMA-compliant) ASF (Motion Picture: MPEG-4 compliant, Sound: G.726-compliant)</th>
</tr>
</thead>
</table>

**Approximate number of recordable pictures/time**

**Still Pictures**

<table>
<thead>
<tr>
<th>Picture size</th>
<th>Memory card</th>
</tr>
</thead>
<tbody>
<tr>
<td>640 × 480</td>
<td>32MB</td>
</tr>
<tr>
<td></td>
<td>256MB</td>
</tr>
</tbody>
</table>

Approx. 328 pictures

Approx. 1000 pictures

* Recordable numbers may vary depending on the receiving condition of the LCD TV set and/or content of images.

**Motion Pictures**

<table>
<thead>
<tr>
<th>Picture size</th>
<th>Recording mode</th>
<th>Memory card capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>320 × 240</td>
<td>SP</td>
<td>256MB</td>
</tr>
<tr>
<td></td>
<td>Approx. 10 min.</td>
<td></td>
</tr>
<tr>
<td>320 × 240</td>
<td>LP</td>
<td>256MB</td>
</tr>
<tr>
<td></td>
<td>Approx. 30 min.</td>
<td></td>
</tr>
<tr>
<td>320 × 240</td>
<td>EP</td>
<td>256MB</td>
</tr>
<tr>
<td></td>
<td>Approx. 1h.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5GB</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Approx. 4h 20 min.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Approx. 10h 30 min.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Approx. 25h 40 min.</td>
<td></td>
</tr>
</tbody>
</table>

* Recordable time may vary depending on receiving condition of the LCD TV set or content of images.

The maximum amount of data you can record on a memory card is 1,024 pictures in total including still and motion pictures.

In the FIT mode, pictures will be recorded in SP, LP or EP mode, in accordance with the remaining space in the memory card.
Using memory card

You can use memory cards (commercially available) for recording and playing back pictures.

- Please use an appropriate PC card adapter (commercially available) for each memory card.
- Following memory cards are available. (Note that names for memory cards vary depending on manufacturers.)

<table>
<thead>
<tr>
<th>Memory card name</th>
<th>Storage capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD Memory Card</td>
<td>128 MB or less</td>
</tr>
<tr>
<td>mini SD™ Card</td>
<td>32 MB or less</td>
</tr>
<tr>
<td>CompactFlash</td>
<td>512 MB or less</td>
</tr>
<tr>
<td>MultiMediaCard</td>
<td>64 MB or less</td>
</tr>
<tr>
<td>SmartMedia</td>
<td>128 MB or less</td>
</tr>
<tr>
<td>Memory Stick</td>
<td>128 MB or less</td>
</tr>
<tr>
<td>Memory Stick PRO</td>
<td>1 GB or less</td>
</tr>
<tr>
<td>Microdrive</td>
<td>2 GB or less</td>
</tr>
<tr>
<td>xD Picture Card</td>
<td>128 MB or less</td>
</tr>
<tr>
<td>PC Card Hard Disk</td>
<td>5 GB or less</td>
</tr>
</tbody>
</table>

* Each memory card name is a trademark.
* The capacity of memory card is approximate. The capacity varies depending on the manufacturer.

- To read picture files recorded with digital cameras, use the PC card adapter recommended by the corresponding manufacturer. (The names for PC card adapters vary depending on manufacturers.)
- For directions for use of digital cameras or PC card adapters, please refer to the operation manual provided for each product.

You can playback DCF compliant JPEG pictures captured with other devices in the card playback mode.

- DCF (Design rule for Camera File system) is a standard of the Japan Electronics and Information Technology Industries Association (JEITA). This standard specifies the image file format used for images shot with a digital camera.
- Some motion pictures recorded with other devices may not be played back correctly.

Preparing a memory card

Insert a memory card (commercially available) into a PC card adapter (commercially available).

Example: Inserting the SD memory card into a PC card adapter.

Notes on using memory cards and PC card adapter

Please note the following when using memory cards and PC card adapters to avoid corruption of data or malfunction of the LCD TV set.

- If you use memory cards other than those shown above, recording or playing back pictures are not guaranteed.
- Some PC card adapters have restrictions of memory card capacity. Refer to the relevant operation manual for such restrictions.
- Some pictures which have been created, modified, or copied on your PC may not be played back.
- Please be sure to turn off the LCD TV set when you insert or remove a PC card adapter.
- Do not bend, drop or apply a shock to memory cards or PC card adapters.
- Keep memory cards or PC card adapters away from heat, water or direct sunlight.
- Do not dismantle or modify memory cards or PC card adapters.
- Refer to the appropriate operation manuals for details on using or keeping memory cards or PC card adapters.
- Do not turn the LCD TV set off while a memory card is in operation (e.g. playing back, recording or displaying a slideshow).
Using memory card

Card Setup mode menu items

- Still Setup
- Slide Show
- Interval
- 1-10/15/20/25/30/45/60 Sec.
- 15/30/60 Min.
- Order
- Normal/Random/My Program
- Repeat
- On/Off
- My Program
- Setup/Delete All
- Audio Select
- Off/TV/Input1-Input5
- File Operation
- Protect/Delete File/Delete All
- Rec. Mode
- SP/LP/EP
- Pre Record
- On/Off
- Repeat Play
- Off/File/All
- File Operation
- Protect/Delete File/Delete All
- Format
- Yes/No

Slide show operation panel

1. Rotate the image
2. Pause
3. Go to previous image
4. Start slide show
5. Stop slide show
6. Go to next image

Motion picture operation panel

1. Action
2. Go back to the beginning of the file
3. Pause
4. Repeat playback setting
5. Go to the beginning of the next file
6. Recording mode
7. Counter
8. Current action
9. Reverse
10. Playback
11. Stop
12. Fast forward
13. Slow playback
Using memory card

Inserting a PC card adapter
• Insert a memory card to a PC card adapter beforehand. (See page XX.)
• Insert the PC adapter card slowly.

Ejecting the card
• Make sure the card indicator lights up green.

1. Press EJECT button.
   • EJECT button is popped up.

2. Press EJECT button again.

NOTE
• When “Card is not inserted” is displayed, eject the PC card adapter, and then insert the PC card adapter slowly all the way to the end.
• When over a thousand files are in a card, it takes several minutes to load. (Approx. 5 minutes.)
• Even the green light is on, you cannot record on a card right after you inserted it.
• Make sure the CARD indicator lights green when you take out a card. Never take out a card when the CARD indicator lights red. This may damage the card.
Using memory card

**Recording a still image**

You can record a still image on the card.

1. **Press** FREEZE.

2. **Press** REC.

   - “Still image was captured on a card.” displays.

3. **Press** ENTER to update the still image.

**NOTE**

The list of broadcasting type or input signal not available for recording:

1. DTV broadcasting
2. COMPONENT input
3. RGB input
4. Copyguarded signal
5. DVI-I input

**Displaying a still image**

1. **Press** CARD and the card mode screen displays.

2. **Press** ‹/› to select “Still Image”.

3. **Press** ‹/›/›/› to select a file you want to display, and then press ENTER.

   - To display the files that are in the previous or next page, select ‹/› on the index screen and press ENTER.
   - To enlarge the still image while displaying, press VIEW MODE.

**Displaying slide show**

1. Repeat steps 1 and 2 in Displaying a still image above.

2. **Press** CARD.

   - The operation panel displays.

3. **Press** ‹/›/›/› to select ‹, and then press ENTER.

   - Slide show starts.
   - Operate slide show with the operation panel appears on the screen.

**NOTE**

- See page XX for operation panel function.
- You can not rotate the image during slide show. Stop slide show to rotate the image.
Using memory card

**Setting Slide Show**
You can adjust the interval, order and repeat settings.

1. Press CARD and the card mode screen displays.
2. Press MENU and the MENU screen displays.
3. Press ←/→ to select “Card Setup”.
4. Press ▲/▼ to select “Still Setup”, and then press ENTER.
5. Press ▲/▼ to select “Slide Show” and then press ENTER.
6. Press ▲/▼/◄/► to select the desired slide show setting.

<table>
<thead>
<tr>
<th>Selected item</th>
<th>Selectable item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interval</td>
<td>1-10/15/20/25/30/45/60 Sec. 15/30/60 Min.</td>
</tr>
<tr>
<td>Order</td>
<td>Normal, Random, My Program</td>
</tr>
<tr>
<td>Repeat</td>
<td>On, Off</td>
</tr>
</tbody>
</table>

**My Program**
You can select up to thirty-two pictures and specify the order for displaying in slide show.

1. Press CARD and the card mode screen displays.
2. Press MENU and the MENU screen displays.
3. Press ←/→ to select “Card Setup”.
4. Press ▲/▼ to select “Still Setup”, and then press ENTER.
5. Press ▲/▼ to select “My Program”, and then press ENTER.
6. Press ←/→ to select “Setup”, and then press ENTER.
7. Press ▲/▼/◄/► to select the files, and then press ENTER.

To cancel My Program setting

1. Select “Delete All” at step 5 in “My Program”, and then press ENTER.
2. Press ←/→ to select “Yes”, and then press ENTER.

**NOTE**
- All the registered numbers are cleared.
Using memory card

Audio Select
You can enjoy the audio from TV or other external equipment during the still image playback.

1 Press CARD and the card mode screen displays.
2 Press MENU and the MENU screen displays.
3 Press \(<)/\(>\) to select “Card Setup”.
4 Press \(\uparrow)/\(\downarrow\) to select “Still Setup”, and then press ENTER.

### Setting the Audio Output

5 Press \(\uparrow)/\(\downarrow\) to select “Audio Select”, and then press ENTER.

### File Operation

6 Press \(\uparrow)/\(\downarrow)/\(<)/\(>\) to select the desired sound output, and then press ENTER.

Protecting still picture files
You can protect any file you do not want to delete.

1 Press CARD and the card mode screen displays.
2 Press MENU and the MENU screen displays.
3 Press \(<)/\(>\) to select “Card Setup”.
4 Press \(\uparrow)/\(\downarrow\) to select “Still Setup”, and then press ENTER.

### Protecting Files

5 Press \(\uparrow)/\(\downarrow\) to select “File Operation”, and then press ENTER.

6 Press \(\uparrow)/\(\downarrow)/\(<)/\(>\) to select “Protect”, and then press ENTER.

7 Press \(\uparrow)/\(\downarrow)/\(<)/\(>\) to select the file you want to protect, and then press ENTER.
   - Protect mark displays.
   - Select the file with a protect mark and press ENTER to cancel file protect.
Using memory card

Deleting a still image file

1. Press CARD and the card mode screen displays.
2. Press MENU and the MENU screen displays.
3. Press ▲▼ to select “Card Setup”.
4. Press ▲▼ to select “Still Setup”, and then press ENTER.
5. Press ▲▼ to select “File Operation”, and then press ENTER.
6. Press ▲▼ to select “Delete File”, and then press ENTER.
7. Press ▲▼ to select the file you want to delete, and then press ENTER.
8. Press ▲▼ to select “Yes”, and then press ENTER.

NOTE
- Formatting a card deletes all files including the ones which set to protect.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.

Deleting all still image files

1. Press CARD and the card mode screen displays.
2. Press MENU and the MENU screen displays.
3. Press ▲▼ to select “Card Setup”.
4. Press ▲▼ to select “Still Setup”, and then press ENTER.
5. Press ▲▼ to select “File Operation”, and then press ENTER.
6. Press ▲▼ to select “Delete All”, and then press ENTER.
7. Press ▲▼ to select “Yes”, and then press ENTER.

NOTE
- Formatting a card deletes all files including the ones which set to protect.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.
Using memory card

Rec. Mode

Use this setting for recording images you are currently watching. You can select the recording mode (picture quality) for a motion picture.

1. Press CARD and the card mode screen displays.
2. Press MENU and the MENU screen displays.
3. Press ◄► to select “Card Setup”.
4. Press ▲▼ to select “Video Setup” and then press ENTER.
5. Press ▲▼ to select “Rec. Mode”, and then press ENTER.

Pre Record

You can record the picture slightly before the point where you pressed the record button, enabling you to record just the scene you wanted.

1. Press CARD and the card mode screen displays.
2. Press MENU and the MENU screen displays.
3. Press ◄► to select “Card Setup”.
4. Press ▲▼ to select “Video Setup” and then press ENTER.
5. Press ▲▼ to select “Pre Record”, and then press ENTER.
6. Press ◄► to select “On”, and then press ENTER.
Using memory card

**Repeat Play**
You can specify one file or all files to replay repeatedly.

1. Press CARD and the card mode screen displays.
2. Press MENU and the MENU screen displays.
3. Press ◀/▶ to select “Card Setup”.
4. Press ▲/▼ to select “Video Setup” and then press ENTER.
5. Press ▲/▼ to select “Repeat Play”, and then press ENTER.
6. Press ▲/▼ to select desired setting, and then press ENTER.

**Protecting motion picture files**
You can protect any file you do not want to delete.

1. Press CARD and the card mode screen displays.
2. Press MENU and the MENU screen displays.
3. Press ◀/▶ to select “Card Setup”.
4. Press ▲/▼ to select “Video Setup”, and then press ENTER.
Using memory card

Deleteing a motion picture file

1. Press CARD and the card mode screen displays.
2. Press MENU and the MENU screen displays.
3. Press ◄/► to select “Card Setup”.
4. Press ▲/▼ to select “Video Setup”, and then press ENTER.
5. Press ▲/▼ to select “File Operation”, and then press ENTER.
6. Press ▲/▼ to select “Delete File”, and then press ENTER.
7. Press ▲/▼/◄/► to select the file you want to delete, and then press ENTER.
8. Press ◄/► to select “Yes”, and then press ENTER.

Deleteing all motion picture files

1. Press CARD and the card mode screen displays.
2. Press MENU and the MENU screen displays.
3. Press ◄/► to select “Card Setup”.
4. Press ▲/▼ to select “Video Setup”, and then press ENTER.
5. Press ▲/▼ to select “File Operation”, and then press ENTER.
6. Press ◄/► to select “Delete All”, and then press ENTER.
7. Press ◄/► to select “Yes”, and then press ENTER.

NOTE
- Formatting a card deletes all files including the ones which set to protect.
- Do not turn off the power or take out a card when deleting a file. The card may malfunction.

Formats a card deletes all files including the ones which set to protect.

Do not turn off the power or take out a card when deleting a file. The card may malfunction.
Using memory card

Recording a motion picture
Record with the settings made in “Rec. Mode” and “Pre Record”.

1 Press REC to start recording.
   • CARD indicator lights up red.
   • Recording information displays in the lower right corner of the screen.

2 Press ■ to stop recording.

NOTE
The list of broadcasting type or input signal not available for recording:
1 DTV broadcasting
2 COMPONENT input
3 RGB input
4 Copyguarded signal
5 DVI-I input

To display the remaining record time.
Press DISPLAY while not recording.
• Remaining record time displays in the lower right corner of the screen.

NOTE
• Do not press MAIN POWER on the display while recording. Recording cannot finish properly and may damage the file.
• Recording stops if you press POWER on the remote control while recording.
• When card has no capacity for recording, “Card is full” displays and stops recording.
• You cannot change the channel or switch the input source while recording.

Displaying a motion picture

1 Press CARD and the card mode screen displays.

2 Press ◄/► to select “Video”, and then press ENTER.

3 Press ▲/▼/◄/► to select the file you want to play, and then press ENTER.
   • Video playback starts.

4 Press CARD again to display the operation panel.
   • See XX for the operation panel information.

Format

1 Press MENU and the MENU screen displays.

2 Press ◄/► to select “Card Setup”.

3 Press ▲/▼ to select “Format” and then press ENTER.

4 Press ◄/► to select “Yes”, and then press ENTER.

NOTE
• Formatting a card deletes all files including the ones which set to protect.

The list of broadcasting type or input signal not available for recording:
1 DTV broadcasting
2 COMPONENT input
3 RGB input
4 Copyguarded signal
5 DVI-I input
Using external equipment

You can connect many types of external equipment to your System, like a DVD player, VCR, Digital TV tuner, PC, HDMI equipment, game console and camcorder. To view external source images, select the input source from INPUT on the remote control unit or on the Display.

**Displaying an external equipment image**

Explanation here is for the setting when connecting DVD to INPUT1 terminal.

**CAUTION**
- To protect all equipment, always turn off the AVC System before connecting to a DVD player, VCR, Digital TV tuner, PC, HDMI equipment, game console, camcorder or other external equipment.

**NOTE**
- See pages X/X to X/X for external equipment connection.
- Please refer to the relevant operation manual (DVD player, PC, etc.) carefully before making connections.
- Each time INPUT is pressed, the input source toggles.
- If the image does not come in clearly, you may need to change the input signal type setting on the “Input Select” menu.
- Refer to your external equipment operation manual for the signal type.

To watch a DVD image, select “INPUT1” from “INPUT SOURCE” menu using INPUT on the remote control unit or on the Display. (See page XX.)

1. To watch a DVD image, select “INPUT1” from “INPUT SOURCE” menu using INPUT on the remote control unit or on the Display. (See page XX.)
2. Press MENU and the MENU screen displays.
3. Press ◀/▶ to select “Option”.
4. Press ▲/▼ to select “Input Select”, and then press ENTER.
5. Select the desired signal type.
   **For INPUT1 signal**

   The setting is stored and can be selected on the “INPUT SOURCE” menu.
Using external equipment

**Connecting a DVD player**

You can use the INPUT 1 terminal when connecting to a DVD player and other audiovisual equipment.

When using component cable.

When using composite cable.
Using external equipment

Connecting a VCR
You can use the INPUT 2 terminal when connecting a VCR and other audiovisual equipment.

Connecting a game console or camcorder
A game console, camcorder and some other audiovisual equipment are conveniently connected using the INPUT 3 terminals.

NOTE
• The S-video terminal has priority over the video terminals.
Using external equipment

**Connecting a Digital TV STB**

You can use the INPUT 2 terminal when connecting a Digital TV STB and other audiovisual equipment.

**When using component cable.**

AVC System (rear view)

![AVC System (rear view)](image)

Component video cable (commercially available)

Audio cable (commercially available)

**When using composite cable.**

AVC System (rear view)

![AVC System (rear view)](image)

AV cable (commercially available)

**When using DVI cable.**

AVC System (rear view)

![AVC System (rear view)](image)

ø 3.5mm stereo minijack cable (commercially available)

DVI cable (Commercially available)
Using external equipment

Connecting HDMI equipment
You can use the INPUT 4 terminal when connecting an HDMI equipment.

Displaying an image from HDMI equipment

1. To watch an HDMI equipment image, select “INPUT4” from “INPUT SOURCE” menu using INPUT on the remote control unit or on the Display. (See page XX.)

2. Press MENU and the MENU screen displays.

3. Press ◄/◢ to select “Option”.

4. Press ▲/▼ to select “HDMI Setup”, and then press ENTER.

5. Press ▲/▼ to select the desired item and press ENTER.

6. Press ▲/▼◄/► to select the desired setting and press ENTER.

NOTE
• Refer to your external equipment operation manual for the signal type.
• Unless you have a trouble viewing the image, select “Auto” or “Standard”.

INPUT SOURCE
TV
INPUT1
INPUT2
INPUT3
INPUT4
INPUT5
CARD

HDMI equipment

HDMI cable
(Commercially available)

AVC System (rear view)
Using external equipment

**Connecting a PC**

Use the INPUT 5 terminal to connect a PC.

*NOTE*

- Refer to page XX for a list of PC signals compatible with the System.

**AVC System (rear view)**

- Use the INPUT 5 terminal to connect a PC.
  - RGB/DVI conversion cable (Commercially available)
  - ø 3.5 mm stereo minijack cable (commercially available)
  - DVI cable (Commercially available)
  - ø 3.5 mm stereo minijack cable (commercially available)
Useful adjustment settings

Image position (AV input mode only)

For adjusting a picture's horizontal and vertical position.

1. Press MENU and the MENU screen displays.

2. Press ◄/► to select “Setup”.

3. Press ▲/▼ to select “Position”, and then press ENTER.

4. Press ▲/▼ to select “H-Pos.” or “V-Pos.”.

5. Press ◄/► to adjust the item to your desired position.

NOTE
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select “Reset”, and then press ENTER.
- Adjustments are stored separately according to input source.
- You can easily move the image position as shown on page XX, but when the power is switched off the image will return to the previously memorized position.

<table>
<thead>
<tr>
<th>Selected item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-Pos.</td>
<td>Centers the image by moving it to the left or right.</td>
</tr>
<tr>
<td>V-Pos.</td>
<td>Centers the image by moving it up or down.</td>
</tr>
</tbody>
</table>
Useful adjustment settings

Moving the picture on the screen

You can move the picture around on the screen.

Press ▲/▼/◀/▶ to move an image on the screen to the desired position. Press ENTER to return to the initial image position.

**NOTE**

• While pressing ▲/▼/◀/▶, an on-screen image, “Adjusting Position” displays to the desired position.
• This setting cannot be stored. Once the System shuts down or enters standby mode, the setting is erased. To move the picture around the screen again, you must perform the above procedure again.
• The image position setting using the steps on page XX can be stored. Select either according to your objectives.
• “TV”, “INPUT1”, “INPUT2”, “INPUT3”, “INPUT4” and “INPU5” can each adjust the image position setting on this page. The same for view modes.
• An on-screen image from PC and card cannot be moved around.
• Even when the image fills the screen, its position can be adjusted with this function.
• Initialize the image position by pressing ENTER.
Connecting external speakers

When using external speakers
- Change the speaker setting to external speakers. (See page XX.)

Make sure to connect the speaker terminal and cable polarity (+, −) properly
- The speaker terminals have plus (+) and minus (−) polarity.
- Plus is red and minus is black.
- The cables are also divided into plus and minus.
- When connecting the left/right speakers, be sure to connect the plus/minus terminals with the correct cables.

NOTE
- Unplug the AC cord from the AC outlet before installing the speakers.

CAUTION
- Make sure external speakers have 4 ohm and 10 watt specifications.
- Connect the plus/minus terminals with the correct cables. Incorrect connection may cause a short.

How to connect the speaker cable
1. Push down the tab.
2. Insert the end of the cable.
3. Lift the tab back up.
Useful adjustment settings

**Selecting speakers**
You can output audio using the supplied speakers or other external speakers.

1. Press **MENU** and the MENU screen displays.
2. Press **</>** to select “Setup”.
3. Press **▲/▼** to select “Speaker”, and then press **ENTER**.
4. Press **▲/▼** to select “Speaker”, and then press **ENTER**.
5. Press **</>** to select “SPEAKER-A” or “SPEAKER-B”, and then press **ENTER**.

**Audio Quality Control**
Audio Quality Control automatically optimizes the audio quality to suit internal (supplied) speakers.

1. Press **MENU** and the MENU screen displays.
2. Press **</>** to select “Setup”.
3. Press **▲/▼** to select “Speaker”, and then press **ENTER**.
4. Press **▲/▼** to select “Audio Quality Control”, and then press **ENTER**.
5. Press **</>** to select “Equalizer” or “Flat”, and then press **ENTER**.

<table>
<thead>
<tr>
<th>Selected item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEAKER-A</td>
<td>Speakers connected to the Display.</td>
</tr>
<tr>
<td>SPEAKER-B</td>
<td>Speakers connected to the AVC System.</td>
</tr>
</tbody>
</table>
Useful adjustment settings

**Auto Sync. adjustment (PC input mode only)**
For automatically adjusting the PC image.

1. Press **MENU** and the **MENU** screen displays.
2. Press **</->** to select “Setup”.
3. Press **A/B** to select “Auto Sync.”, and then press **ENTER**.
4. Press **</>** to select “Yes”, and then press **ENTER**.
   - Auto Sync. starts and “Now adjusting the image” displays.

**NOTE**
- When Auto Sync. is successful, “Auto Sync completed successfully” displays. If not, Auto Sync. failed.
- Auto Sync. may fail even if “Auto Sync completed successfully” displays.
- Auto Sync. may fail with a PC image composed of similar patterns or monochrome. If not successful, change the PC image and try again.
- Be sure to connect the PC to the AVC System and switch it on before starting Auto Sync.

**Fine Sync. adjustment (PC input mode only)**
Ordinarily you can easily adjust the picture as necessary to change image position using Auto Sync. In some cases, however, manual adjustment is needed to optimize the image.

1. Press **MENU** and the **MENU** screen displays.
2. Press **</->** to select “Setup”.
3. Press **A/B** to select “Fine Sync.”, and then press **ENTER**.
4. Press **</>** to select the specific adjustment item.
5. Press **</>** to adjust the item to your desired position.

**NOTE**
- For resetting all adjustment items to the factory preset values, press **A/B** to select “Reset”, and then press **ENTER**.

*Selected item* | *Description*
---|---
H-Pos. | Centers the image by moving it to the left or right.
V-Pos. | Centers the image by moving it up or down.
Clock | Adjusts the clock frequency.
Phase | Adjusts the clock phase.
Useful adjustment settings

Input Select

Selecting input source
Can use for selecting the input source.

1. Press INPUT on the remote control unit or on the Display.

2. Press INPUT on the remote control unit or on the Display to select the input source.
   - An image from the selected source automatically displays.
   - You can also select the input source by pressing  ▲/▼.

NOTE
- Some items may be grayed out. They are not selectable.

Selecting input signal type
For setting the signal type of external equipment connected to INPUT 1 or 2 terminals.

1. Press MENU and the MENU screen displays.

2. Press  ▶/◀ to select “Option”.

3. Press ▲/▼ to select “Input Select”, and then press ENTER.

4. Press ▲/▼ to select a signal type you want to set, and then press ENTER.
   - If the selected signal type is incorrect, an image does not display or no color image displays.

NOTE
- The System automatically sets input signals from “INPUT1” and “INPUT2”.
- If no (color) image displays, try to change the signal type.
- Check the operation manual of the external equipment for the signal type.
- Setting INPUT 1 and INPUT 2 signal selection to “Auto” when other equipment is connected will result in the following connectivity priority.

<table>
<thead>
<tr>
<th>INPUT 1 and INPUT 2</th>
<th>INPUT 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. COMPONENT VIDEO</td>
<td>1. DIGITAL PC</td>
</tr>
<tr>
<td>2. VIDEO</td>
<td>2. ANALOG PC</td>
</tr>
<tr>
<td></td>
<td>3. DIGITAL AV</td>
</tr>
<tr>
<td></td>
<td>4. ANALOG AV</td>
</tr>
</tbody>
</table>

DVI input signal setting

1. Press INPUT to select INPUT5.

2. Press MENU and the MENU screen displays.

3. Press ▲/▼/◄► to select “Option”.

4. Press ▲/▼ to select “Input Select”, and then press ENTER.

5. Press ▲/▼ to select the equipment connected to INPUT 5 terminal, and then press ENTER.
**Useful adjustment settings**

**Input Label**
Let's you set the input terminal displayed using the INPUT SOURCE menu or channel display.

1. Press **MENU** and the MENU screen displays.

2. Press ◄/► to select “Setup”.
   - Option menu displays.

3. Press ▲/▼ to select “Input Label”, and then press **ENTER**.

4. Press ▲/▼/◄/► to select the new name for the channel, and then press **ENTER**.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZ Setup</td>
<td></td>
</tr>
<tr>
<td>CH Setup</td>
<td></td>
</tr>
<tr>
<td>Speaker</td>
<td></td>
</tr>
<tr>
<td>Input Label</td>
<td></td>
</tr>
<tr>
<td>Parental CTRL</td>
<td></td>
</tr>
<tr>
<td>Position</td>
<td></td>
</tr>
<tr>
<td>Picture Flip</td>
<td>[Standard]</td>
</tr>
<tr>
<td>Language</td>
<td>[English]</td>
</tr>
</tbody>
</table>
Useful adjustment settings

Picture flip
You can set the orientation of the picture.

**AV input mode**

1. Press **MENU** and the MENU screen displays.
2. Press **△/▽** to select “Setup”.
3. Press **△/▽** to select “Picture Flip”, and then press **ENTER**.
4. Press **△/▽** to select the desired mode, and then press **ENTER**.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>[ABC]</td>
</tr>
<tr>
<td>Mirror</td>
<td>[ABC]</td>
</tr>
<tr>
<td>Upside Down</td>
<td>[ABC]</td>
</tr>
<tr>
<td>Rotate</td>
<td>[ABC]</td>
</tr>
</tbody>
</table>

**PC input mode**

1. Press **MENU** and the MENU screen displays.
2. Press **△/▽** to select “Setup”.
3. Press **△/▽** to select “Picture Flip”, and then press **ENTER**.
4. Press **△/▽** to select the desired mode, and then press **ENTER**.

[Standard]: normal image.  
[Mirror]: mirror image.  
[Upside Down]: upside down image.  
[Rotate]: rotated image.
Useful adjustment settings

**AV MODE**

AV MODE gives you six viewing options to choose from to best match environment of the System, which can vary due to factors like room brightness, type of program watched or the type of image input from external equipment.

1. Press **AV MODE**.
   - Present AV MODE displays.

2. Press **AV MODE** again before the mode displayed on the screen disappears.
   - The mode changes as shown below.

**View mode for 4:3 Programs**

Press **VIEW MODE**.
- The View mode menu displays.
- The menu lists the view mode options selectable for the type of video signal currently received.

Press **VIEW MODE** or ▲/▼ while the View mode menu is still on the screen.
- You can sequentially select a view mode that has its own aspect ratio.

1. **View Mode**
   - Side Bar
   - S. Stretch
   - Zoom
   - Stretch

2. **Side Bar**: Suitable for viewing conventional 4:3 programs in their normal format.

3. **S. Stretch**: Suitable for stretching 4:3 programs to fill the screen.

4. **Zoom**: Suitable for viewing wide-screen 2.35:1 anamorphic DVDs in full screen.

5. **Stretch**: This mode is useful for 1.78:1 DVDs. When viewing 1.85:1 DVDs, stretch mode will still show very thin black bands at the top and bottom of the screen.

**Mode selection for the INPUT 1 to 5 terminals**

<table>
<thead>
<tr>
<th>Mode selection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV MODE: STANDARD</td>
<td>For a highly defined image in a normally bright room</td>
</tr>
<tr>
<td>AV MODE: MOVIE</td>
<td>For a movie</td>
</tr>
<tr>
<td>AV MODE: GAME</td>
<td>Lowers image brightness for easier viewing</td>
</tr>
<tr>
<td>AV MODE: USER</td>
<td>Allows the user to customize settings as desired. You can set the mode for each input source.</td>
</tr>
<tr>
<td>AV MODE: DYNAMIC (Fixed)</td>
<td>Changing image and sound settings to factory preset values. No adjustments are allowed.</td>
</tr>
<tr>
<td>AV MODE: DYNAMIC</td>
<td>For a clear-cut image emphasizing high contrast for sports viewing</td>
</tr>
</tbody>
</table>

**NOTE**

- You can select a different AV MODE item for each input mode. (For example, select STANDARD for TV input and DYNAMIC for VIDEO input.)
- When AV MODE is set to DYNAMIC (Fixed), “No picture adjustments available in Dynamic (Fixed) mode” displays.

**Mode selection for the PC terminal**

<table>
<thead>
<tr>
<th>Mode selection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV MODE: STANDARD</td>
<td>For a highly defined image in a normally bright room</td>
</tr>
<tr>
<td>AV MODE: USER PC</td>
<td>For a clear-cut image emphasizing high contrast for sports viewing</td>
</tr>
</tbody>
</table>

Selected item

- STANDARD
- MOVIE
- GAME
- USER
- DYNAMIC
- DYNAMIC (Fixed)
Useful adjustment settings

View mode (for PC input mode)

You can select the screen size.

NOTE

• Connect the PC before making adjustments. (See page XX.)
• Selectable screen size may vary with input signal type.

1. Press VIEW MODE. The View mode menu displays.

2. Press VIEW MODE or ▲/▼ to select a desired item on the menu.

Press VIEW MODE or ▲/▼ to select a desired item on the menu.

Screen size images.

<table>
<thead>
<tr>
<th>Input signal</th>
<th>Normal</th>
<th>Zoom</th>
<th>Stretch</th>
<th>Dot by Dot</th>
</tr>
</thead>
<tbody>
<tr>
<td>640 × 480</td>
<td>Keeps the original aspect ratio in a full screen display.</td>
<td>Keeps the original aspect ratio in a full screen display. The top and bottom of the image is slightly cropped.</td>
<td>An image fully fills the screen.</td>
<td>Detects the resolution of the signal and displays an image with the same number of pixels on the screen.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input signal</th>
<th>Normal</th>
<th>Zoom</th>
<th>Stretch</th>
<th>Dot by Dot</th>
</tr>
</thead>
<tbody>
<tr>
<td>1024 × 768</td>
<td>Keeps the original aspect ratio in a full screen display. The top and bottom of the image is slightly cropped.</td>
<td>An image fully fills the screen.</td>
<td>Detects the resolution of the signal and displays an image with the same number of pixels on the screen.</td>
<td></td>
</tr>
</tbody>
</table>
Useful adjustment settings

Input signal (for PC input mode)

- Some input signals may have to be registered manually to display properly.
- The pairs of input signals (resolutions) in the list below are not distinguishable when received. In such case, you have to set the correct signal manually. After setting once, it will display when the same signal (resolution) is input again.

<table>
<thead>
<tr>
<th>Resolution 1</th>
<th>Resolution 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>640 x 400</td>
<td>720 x 400</td>
</tr>
<tr>
<td>640 x 480</td>
<td>848 x 480</td>
</tr>
<tr>
<td>1024 x 768</td>
<td>1280 x 768</td>
</tr>
</tbody>
</table>

NOTE

- You can only select the “Input Signal” on the Setup menu when receiving one of the 6 input signals listed above.

Digital Noise Reduction

Produces a clearer video image.

1. Press MENU and the MENU screen displays.
2. Press ◀/▶ to select “Option”.
3. Press ▲/▼ to select “Digital Noise Reduction”, and then press ENTER.
   - Some items may be grayed out. They are not selectable.

<table>
<thead>
<tr>
<th>Audio Only</th>
<th>Card Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digital Noise Reduction</td>
<td>[Low]</td>
</tr>
<tr>
<td>Input Select</td>
<td>[Auto]</td>
</tr>
<tr>
<td>Output Select</td>
<td>[Fixed]</td>
</tr>
<tr>
<td>Quick Shoot</td>
<td>[Off]</td>
</tr>
<tr>
<td>Center Channel Input</td>
<td>[Off]</td>
</tr>
<tr>
<td>Caption Setup</td>
<td></td>
</tr>
</tbody>
</table>

4. Press ▲/▼ to select the desired level, and then press ENTER.

<table>
<thead>
<tr>
<th>Digital Noise Reduction Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
</tr>
<tr>
<td>High</td>
</tr>
<tr>
<td>Low</td>
</tr>
</tbody>
</table>

NOTE

- “Digital Noise Reduction” is not selectable when channel display shows an input resolution of 720P or 1080I.
Useful adjustment settings

Audio only

When listening to music from a music program, you can set the Liquid Crystal display off and enjoy audio only.

Press MENU and the MENU screen displays.

Press ◀/▶ to select “Option”.

Press ▲/▼ to select “Audio Only”, and then press ENTER.

Press ◀/▶ to select “On”, and then press ENTER.

Selected item | Description
--- | ---
**On** | Audio is output without screen image.  
**Off** | Both screen images and audio are output.

Output Select

Allows you to select what controls the audio output.

Press MENU and the MENU screen displays.

Press ◀/▶ to select “Option”.

Press ▲/▼ to select “Output Select”, and then press ENTER.

Press ◀/▶ to select “Fixed” or “Variable”, and then press ENTER.

Selected item | Description
--- | ---
**Fixed** | • Sound via speaker is adjusted with VOL +/- on the remote control unit or VOL +/- on the Display.  
       • Sound via the MONITOR OUTPUT terminal is not adjustable and constantly outputs.

**Variable** | • Sound via the MONITOR OUTPUT terminal is adjusted with VOL +/- on the remote control unit or VOL +/- on the Display.  
       • Sound via speaker is muted.
**Useful adjustment settings**

**Quick shoot**
Improves the response of Liquid Crystal Panel when viewing fast-moving images. The effect is greater at low room temperatures (at or below 59˚F/15˚C).

1. Press **MENU** and the MENU screen displays.
2. Press **<**/**>** to select “Option”.
3. Press **A**/**V** to select “Quick Shoot”, and then press **ENTER**.

   **Option**
   - Audio Only
   - Digital Noise Reduction: [Low]
   - Input Select: [Auto]
   - Output Select: [Fixed]
   - Quick Shoot: [Off]
   - Center Channel Input: [Off]
   - Caption Setup

   (On-screen display for AV input mode.)

   **Option**
   - Audio Only
   - Output Select: [Fixed]
   - Quick Shoot: [Off]

   (On-screen display for PC input mode.)

4. Press **<**/**>** to select “On”, and then press **ENTER**.

**NOTE**
- Quick Shoot may cause image noise. If this occurs turn the function “Off”.

**Sleep timer**
Allows you to set a time when the TV automatically switches to standby.

1. Press **SLEEP**. • Remaining time displays when sleep timer has been set.

   **Sleep Timer: Remaining** 30

2. Each time you press **SLEEP**, the remaining time switches as shown below.
   - When set, the time automatically starts counting down.
   - If you want to adjust the sleep timer, you can press **SLEEP** twice then change the time setting.
   - Five minutes before time expires, the remaining time displays each minute.

   **Sleep Timer:** 0
   - **Sleep Timer:** 30
   - **Sleep Timer:** 60
   - **Sleep Timer:** 90
   - **Sleep Timer:** 120

**NOTE**
- Select “0” by pressing **SLEEP** to cancel the sleep timer.
- When the sleep timer is working, its indicator on the Display lights red.
Useful adjustment settings

Closed caption

- Your System is equipped with an internal closed caption decoder. Closed caption is the system which allows you to view conversations, narration, and sound effects in TV programs and home videos as subtitles on your Display.
- Not all programs and videos offer closed caption. Please look for the “CC” symbol to ensure that captions will be shown.
- “CC1” or “CC2” displays subtitles of TV dramas and news programs while allowing a full view of the picture.
- “T1” or “T2” superimposes on the picture other information (e.g. TV guide, weather) that is independent of the TV in progress.

Each time you press CC, the closed caption toggles.

NOTE
- See page XX to XX for the detailed closed caption settings.
- When using Twin Picture (see page XX) and Still Image (see page XX) functions, the right screen cannot display closed caption data.
- When the program contains no closed caption, “—” displays in the closed caption information.
- Four kinds of closed caption information is available. However, selectable item depends on the information program contains.
Useful adjustment settings

**Caption Size**
Select a caption size.

1. Press **MENU** and the MENU screen displays.
2. Press \(</>\) to select “Option”.
3. Press \(\uparrow/\downarrow\) to select “Caption Setup”, and then press **ENTER**.

**Font Style**
Select a font style.

4. Press **ENTER**.
5. Press \(</>\) to select the desired style, and then press **ENTER**.

- **NOTE**
- Default: The size specified by broadcasting station or default size.

**Selected item**

<table>
<thead>
<tr>
<th>Selected item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Default</td>
<td>The font specified by broadcasting station or default font.</td>
</tr>
<tr>
<td>Type 0</td>
<td>Proportional font used in the MENU screen.</td>
</tr>
<tr>
<td>Type 1</td>
<td>Monospaced with serifs.</td>
</tr>
<tr>
<td>Type 2</td>
<td>Proportionally spaced with serifs.</td>
</tr>
<tr>
<td>Type 3</td>
<td>Monospaced without serifs.</td>
</tr>
<tr>
<td>Type 4</td>
<td>Proportionally spaced without serifs.</td>
</tr>
<tr>
<td>Type 5</td>
<td>Casual font type.</td>
</tr>
<tr>
<td>Type 6</td>
<td>Cursive font type.</td>
</tr>
<tr>
<td>Type 7</td>
<td>Small capitals.</td>
</tr>
</tbody>
</table>
Useful adjustment settings

**Foreground Color**
Select a character foreground color.

1. Press **MENU** and the MENU screen displays.
2. Press \(\uparrow/\downarrow\) to select “Option”.
3. Press \(\uparrow/\downarrow\) to select “Caption Setup”, and then press **ENTER**.

```
 MENU  [Option -- Caption Setup]
        Option    Card Setup
  Audio Only
  Digital Noise Reduction  [Low]
  Input Select     [Auto]
  Output Select     [Fixed]
  Quick Shoot       [Off]
  Center Channel Input  [Off]
  Caption Setup
```

4. Press \(\uparrow/\downarrow\) to select “Foreground Color”, and then press **ENTER**.

```
<table>
<thead>
<tr>
<th>Caption Size</th>
<th>Standard</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Font Style</td>
<td>Default</td>
<td></td>
</tr>
<tr>
<td>Foreground Color</td>
<td>Green</td>
<td></td>
</tr>
<tr>
<td>Foreground Opacity</td>
<td>Default</td>
<td></td>
</tr>
<tr>
<td>Background Color</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>Background Opacity</td>
<td>Default</td>
<td></td>
</tr>
<tr>
<td>Character Edge</td>
<td>Default</td>
<td></td>
</tr>
<tr>
<td>Reset</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

5. Press \(\uparrow/\downarrow\) to select the desired color, and then press **ENTER**.

**NOTE**
• Default: The color specified by broadcasting station or default color.

**Foreground Opacity**
Select a foreground opacity value.

1. Press **MENU** and the MENU screen displays.
2. Press \(\uparrow/\downarrow\) to select “Option”.
3. Press \(\uparrow/\downarrow\) to select “Caption Setup”, and then press **ENTER**.

```
 MENU  [Option -- Caption Setup]
        Option    Card Setup
  Audio Only
  Digital Noise Reduction  [Low]
  Input Select     [Auto]
  Output Select     [Fixed]
  Quick Shoot       [Off]
  Center Channel Input  [Off]
  Caption Setup
```

4. Press \(\uparrow/\downarrow\) to select “Foreground Opacity”, and then press **ENTER**.

```
<table>
<thead>
<tr>
<th>Caption Size</th>
<th>Standard</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>Font Style</td>
<td>Default</td>
<td></td>
</tr>
<tr>
<td>Foreground Color</td>
<td>Green</td>
<td></td>
</tr>
<tr>
<td>Foreground Opacity</td>
<td>Default</td>
<td></td>
</tr>
<tr>
<td>Background Color</td>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>Background Opacity</td>
<td>Default</td>
<td></td>
</tr>
<tr>
<td>Character Edge</td>
<td>Default</td>
<td></td>
</tr>
<tr>
<td>Reset</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

5. Press \(\uparrow/\downarrow\) to select the desired level, and then press **ENTER**.

**NOTE**
• Default: The opacity value specified by broadcasting station or default opacity value.
Useful adjustment settings

**Background Color**
Select a character background color.

1. Press **MENU** and the MENU screen displays.
2. Press **▲/▼** to select “Option”.
3. Press **▲/▼** to select “Caption Setup”, and then press **ENTER**.

**Background Opacity**
Select a background opacity value.

4. Press **▲/▼** to select “Background Color”, and then press **ENTER**.
5. Press **▲/▼** to select the desired value, and then press **ENTER**.

**NOTE**
- Default: The color specified by broadcasting station or default color.

**NOTE**
- Default: The opacity value specified by broadcasting station or default opacity value.
Useful adjustment settings

**Character Edge**
Select a character edge.

1. Press **MENU** and the MENU screen displays.

2. Press ◀/▶ to select “Option”.

3. Press ▲/▼ to select “Caption Setup”, and then press **ENTER**.

4. Press ▲/▼ to select “Character Edge”, and then press **ENTER**.

5. Press ◀/▶ to select the desired setting, and then press **ENTER**.

**NOTE**
- For resetting all adjustment items to the factory preset values, press ▲/▼ to select “Reset”, and then press **ENTER**.
Useful adjustment settings

Secret number setting for parental control (AV input mode only)

Allows you to use a secret number to protect certain settings from being accidentally changed.

IMPORTANT:
Three conditions must be met to enable V-Chip (see pages XX to XX):
1. Secret No. is registered.
2. V-Chip settings have been made.
3. “Status” is set to “On”.

5. Select “New Secret No.”, and then press ENTER.
Input the new 4-digit secret number by using 0 – 9.

6. Input the same 4-digit number on the “Reconfirm” screen as in step 5 to confirm.

7. Press RETURN to start configuring V-Chip settings. (See pages XX and XX for details.)

Setting parental control status

Used to enable or disable the parental control function.

1. Repeat steps 1 to 3 in Setting a secret number.
   - Secret number setting menu displays.

2. Input the 4-digit secret number by using 0 – 9.

3. Press A/D to select “Status”, and then press ENTER.

4. Press A/D to select “On” or “Off”, and then press ENTER.
   - Select “On” to enable and “Off” to disable Parental CTRL.

NOTE
- You can skip step 1 and 2 above while in Parental CTRL screen.

Setting a secret number

1. Press MENU and MENU screen displays.

2. Press A/D to select “Setup”.

3. Press A/D to select “Parental CTRL”, and then press ENTER.

4. Press A/D to select “Secret No.”, and then press ENTER.

Input the 4-digit secret number by using 0 – 9.

Press RETURN to start configuring V-Chip settings. (See pages XX and XX for details.)
Useful adjustment settings

Changing the secret number

Allows you to change your current secret number.

1. Repeat steps 1 to 3 in Setting a secret number.
   • Secret number setting menu displays.

2. Input the 4-digit secret number by using 0 – 9.

3. Press ▲/▼ to select “Secret No.”, and then press ENTER.

4. Press ▲/▼ to select “New Secret No.”, and then press ENTER.

5. Input the old 4-digit number you have set using 0 – 9.

6. Input the new 4-digit number using 0 – 9.

7. Input the same 4-digit number on the “Reconfirm” screen as in step 6 to confirm.

Clearing the secret number

Allows you to clear your secret number.

1. Repeat steps 1 to 3 in Setting a secret number.
   • Secret number setting menu displays.

2. Input the 4-digit secret number by using 0 – 9.

3. Press ▲/▼ to select “Secret No.”, and then press ENTER.

4. Press ▲/▼ to select “Secret No. Clear”, and then press ENTER.

5. Press ▲/▼ to select “Yes”, and then press ENTER.
   • Your secret number is cleared.

NOTE

• See page XX for re-registering with a new secret number after being cleared.

• As a precautionary measure, make a note of your secret number and keep it in a familiar place. If you lose or forget your secret number, initialize the Liquid Crystal Television to return all settings except for the TV channel settings to factory preset values. (See page XX.)

• If the secret number is cleared the Status setting automatically sets to “Off”. “V-Chip” and “Status” will not be selectable from the menu.
Useful adjustment settings

Parental control (setting V-CHIP level)

V-CHIP is an electronic filtering device built into your System. This tool gives parents a great degree of control over broadcasts accessed by their children. It allows parents to select programs judged suitable for child viewing while blocking ones judged not suitable. It does so automatically once you activate the V-CHIP feature in your Liquid Crystal Television.

“V-Chip” and “Status” will not be selectable from the menu if you do not first configure your secret number. (See page XX for Secret number setting for parental control.)

- The U.S. has two rating systems for viewing content: TV Parental Guidelines and movie ratings.
- The TV Parental Guidelines work in conjunction with the V-CHIP to help parents screen out inappropriate television shows from their children.
- Movie ratings are used for original movies rated by the Motion Picture Association of America (MPAA) as watched on cable TV and not edited for television. The V-CHIP can also be set to block MPAA-rated movies.

Voluntary movie rating system (MPAA)

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G</td>
<td>General audiences. All ages admitted.</td>
</tr>
<tr>
<td>PG</td>
<td>Parental guidance suggested. Some material may not be suitable for children.</td>
</tr>
<tr>
<td>PG-13</td>
<td>Parents strongly cautioned. Some material may be inappropriate for children under 13.</td>
</tr>
<tr>
<td>R</td>
<td>Restricted. Under 17 requires accompanying parent or adult guardian (age varies in some jurisdictions).</td>
</tr>
<tr>
<td>NC-17</td>
<td>No one 17 and under admitted.</td>
</tr>
<tr>
<td>X</td>
<td>A rating that has now been superseded by NC-17.</td>
</tr>
</tbody>
</table>

TV Parental Guidelines

<table>
<thead>
<tr>
<th>Rating</th>
<th>Suggested age</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV-Y (All children)</td>
<td></td>
<td>FV  V  S  L  D</td>
</tr>
<tr>
<td>TV-Y7 (Directed to older children)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV-G (General audience)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV-PG (Parental Guidance suggested)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV-14 (Parents strongly cautioned)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TV-MA (Mature audience only)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

X: Content rating can be set.

NOTE

- If you select “PG-13”, this will automatically block the higher ratings “R”, “NC-17” and “X”.

EXAMPLE

- Voluntary movie rating system only uses an age-based rating.
Useful adjustment settings

Voluntary movie rating system (MPAA)

1. Press MENU and the MENU screen displays.
2. Press ▲/▼ to select “Setup”.
3. Press ▲/▼ to select “Parental CTRL”, and then press SET/ENTER.
   - Secret number setting menu displays only when “Secret No.” is set. (See page XX.)
   - “V-Chip” and “Status” will not be selectable from the menu if you do not first configure your secret number. (See page XX.)
4. Input the 4-digit secret number by using 0 – 9.
5. Press ▲/▼ to select “V-Chip”, and then press ENTER.
   - The setting automatically enters “Block” for any ratings below your selection.
6. Press ▲/▼ to select “MPAA”, and then press ENTER.
7. Press ▲/▼ to adjust the item to your desired position. “●” indicates the item is blocked.
   - The setting automatically enters “Block” for any ratings below your selection.
   - If Status is not set to “On” the configuration settings will not work. (See page XX.)

TV Parental Guidelines (TV Guidelines)

1. Repeat steps 1 to 5 in Voluntary movie rating system (MPAA).
2. Press ▲/▼ to select “TV Guidelines”, and then press ENTER.
3. Press ▲/▼ to adjust the item to your desired position. “●” indicates the item is blocked.
   - The setting automatically enters “Block” for any ratings below your selection.

Example

When setting an individual content-based rating item, do as follows:
1. Press ▲ to access block content items from the currently selected age-based rating item.
2. Press ▲/▼ to select an individual item, and then press ENTER to unblock (“●” is removed). Repeat the same steps for other items.
3. Press ▲ or RETURN to register after all individual content rating items are set.

Example
Useful adjustment settings

Canadian Rating Systems

- The TV rating systems in Canada are based on the Canadian Radio-Television and Telecommunications Commission (CRTC) policy on violence in television programming.
- While violence is the most important content element to be rated, the structure developed takes into consideration other program content like language, nudity, sexuality and mature themes.
- When setting the V-CHIP on the Canadian system you can choose either the Canadian English ratings or the Canadian French ratings.

Canadian English ratings

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exempt</td>
<td>Exempt: Includes news, sports, documentaries and other information programming; talk shows, music videos, and variety programming.</td>
</tr>
<tr>
<td>C</td>
<td>Children: Intended for younger children under the age of 8 years. Pays careful attention to themes that could threaten their sense of security and well-being.</td>
</tr>
<tr>
<td>C8+</td>
<td>Children over 8 years old: Contains no portrayal of violence as the preferred, acceptable, or only way to resolve conflict; nor encourage children to imitate dangerous acts which they may see on the screen.</td>
</tr>
<tr>
<td>G</td>
<td>General: Considered acceptable for all age groups. Appropriate viewing for the entire family, contains very little violence, physical, verbal or emotional.</td>
</tr>
<tr>
<td>PG</td>
<td>Parental Guidance: Intended for a general audience, but may not be suitable for younger children (under the age of 8) because it could contain controversial themes or issues.</td>
</tr>
<tr>
<td>14+</td>
<td>Over 14 Years: Could contain themes where violence is one of the dominant elements of the storyline, but it must be integral to the development of plot or character. Language usage could be profane and nudity present within the context of the theme.</td>
</tr>
<tr>
<td>18+</td>
<td>Adults: Intended for viewers 18 years and older and might contain depictions of violence, which while related to the development of plot, character or themes, are intended for adult viewing. Could contain graphic language and portrayals of sex and nudity.</td>
</tr>
</tbody>
</table>

Canadian French ratings

<table>
<thead>
<tr>
<th>Rating</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exempt</td>
<td>Exempt programming.</td>
</tr>
<tr>
<td>G</td>
<td>General: All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner.</td>
</tr>
<tr>
<td>8ans+</td>
<td>General but inadvisable for young children: May be viewed by a wide public audience, but could contain scenes disturbing to children under 8 who cannot distinguish between imaginary and real situations. Recommended for viewing with parent.</td>
</tr>
<tr>
<td>13ans+</td>
<td>Over 13 years: Could contain scenes of frequent violent scenes and therefore recommended for viewing with parent.</td>
</tr>
<tr>
<td>16ans+</td>
<td>Over 16 years: Could contain frequent violent scenes and intense violence.</td>
</tr>
<tr>
<td>18ans+</td>
<td>Over 18 years: Only for adult viewing. Could contain frequent violent scenes and extreme violence.</td>
</tr>
</tbody>
</table>
Useful adjustment settings

**Canadian English ratings**

1. Press **MENU** and the MENU screen displays.

2. Press \[a/b\] to select “Setup”.

3. Press \[a/b\] to select “Parental CTRL”, and then press **ENTER**.
   - Secret number setting menu displays only when “Secret No.” is set. (See page XX.)
   - “V-Chip” and “Status” will not be selectable from the menu if you do not first configure your secret number. (See page XX.)

4. Input the 4-digit secret number by using \[0–9\].

5. Press \[a/b\] to select “V-Chip”, and then press **ENTER**.

6. Press \[a/b\] to select “Can. English Ratings”, and then press **ENTER**.

7. Press \[a/b\] to adjust the item to your desired position. “\[\]” indicates the item is blocked.
   - The setting automatically enters “Block” for any ratings below your selection.
   - If Status is not set to “On” the configuration settings will not work. (See page XX.)

**Canadian French ratings**

1. Repeat steps 1 to 5 in **Canadian English ratings**.

2. Press \[a/b\] to select “Can. French Ratings”, and then press **ENTER**.

3. Press \[a/b\] to adjust the item to your desired position. “\[\]” indicates the item is blocked.
   - The setting automatically enters “Block” for any ratings below your selection.
   - If Status is not set to “On” the configuration settings will not work. (See page XX.)
Useful adjustment settings

How to temporarily release the V-CHIP BLOCK

• The V-CHIP BLOCK is working and censors a broadcast, “V-CHIP HAS BEEN ACTIVATED.” displays.

1 Press ENTER while the V-CHIP is working and then the secret number setting menu displays.

2 Enter your 4-digit secret number with 0 – 9 and then press ENTER. At this time V-CHIP BLOCK temporarily releases.

Reactivating the temporarily released the V-CHIP BLOCK

• You can reactivate the temporarily released V-CHIP BLOCK as shown below.

Method 1:
Select “Status” setting from the Parental CTRL menu to reactivate BLOCK. See page XX.

Method 2:
Select “V-Chip” setting (“MPAA”, “TV Guidelines”, “Can. English Ratings” or “Can. French Ratings”) from the Parental CTRL to reactivate BLOCK. See pages XX and XX.

Method 3:
Switch off the AVC System power.

NOTE
• Performing any of the three above will activate the V-CHIP BLOCK.
Useful adjustment settings

**Center Channel Input**

You can use the display speakers as center speaker when using 5.1ch surrounding sound system.

1. Press **MENU** and the MENU screen displays.
2. Press **◄/►** to select “Option”, and then press **ENTER**.
3. Press **▲/▼** to select “Center Channel Input”, and then press **ENTER**.
4. Press **◄/►** to select “On”, and then press **ENTER**.

**NOTE**
- Sound from Centre Channel Input terminal is output from the display speaker.
Other viewing options

**Twin picture functions**

Allows you to display two pictures on the screen at one time.

**Twin picture in all cases**

You can display two same-sized pictures except when inputting from INPUT 5 terminal and card.

Press **TWIN PICTURE**.

- Twin picture displays and a selected input source image displays.

Press **SELECT** to set either screen to be active.

- “A” displays on the active screen, which has sound output.

Press **TWIN PICTURE** to exit twin picture.

**NOTE**

- This function does not work under the following input conditions:
  1. PC INPUT mode,
  2. CARD mode,
  3. Two pictures from the same source (e.g. INPUT 1 and INPUT 1),
  4. HDTV signal source is input on the right side screen display.
- When this function is not available, “No dual screen display available” will display.
- Pressing **ANT-A/B** while viewing Twin Picture mode (TV image and video image) with TV selected will display the TV image of the other tuner.
- Pressing **ANT-A/B** while viewing Twin Picture with video selected will not change the image displayed.
- Pressing **ANT-A/B** while viewing Twin Picture with two TV images displayed will not have any effect.
- Pressing **ANT-A/B** while viewing Twin Picture with two video images displayed will switch the selected screen to a TV image.

**Picture and still image**

You can display two same-sized pictures – one moving and one still – when inputting from an AV source.

Press **FREEZE**.

- A moving image displays on the left screen and a still image displays on the right screen. The still image is one frame captured from a moving image at the moment you press **FREEZE**.

Update the still image by pressing **ENTER**.

- Each time you press **ENTER**, the image on the right screen updates.

Press **RETURN** to exit still image.

**NOTE**

- This function does not work in PC and Card mode.
- When this function is not available, “No still image display available.” will display.
- The still image automatically goes out after 30 minutes.
Presetting remote control function

You can operate the connected AV products (AV Receiver, Cable Box, SAT tuner, DTV, VCR, DVD, LD) using the presetting manufacturer function for your remote control unit.

Presetting manufacturer codes

1. Press **FUNCTION** to match the device to which you want to preset the remote control code.

2. Press **EDIT** and **1** at the same time.
   - LED flashes continuously.

3. Press **0** – **9** to enter the manufacturer code.
   (See page XX.)
   - Preset mode is finished once the LED no longer lights up.

**NOTE**

- To stop the EDIT mode in the middle, press **EDIT** once more.
- If **FUNCTION** is pressed while in EDIT mode, EDIT mode will be canceled.
- If there is no operation for over 1 minute running, exit this mode.
- When you enter a code that is not listed, LED flashes quickly.
- The initial mode is “00”.

# Manufacturer codes

**VCR BRAND** | REMOTE CONTROL CODE NUMBER
---|---
Akai | 25, 26, 37
Audio | 15, 22, 30
Broksonic | 32
Canon | 04
Capehart | 34
Craig | 10, 31
Curtis Mathis | 04
Daewoo | 34
DBX | 15, 22, 30
Dynatech | 29
Emerson | 21, 32, 35
Fisher | 09, 10, 11
Funai | 28, 29
G.E. | 04
Goldstar | 24
Hitachi | 06, 47
Instant Replay | 04
JC Penney | 04, 06, 24, 30
JVC | 15, 41, 42, 53
Kenwood | 14, 15
Lloyds | 29
Magnavox | 04, 05, 08
Magnin | 31
Marantz | 30
Memorex | 04, 10, 24, 29
Minolta | 06
Mitsubishi | 17, 18, 39, 40
Montgomery Ward | 02, 43
Multitech | 29
NEC | 15, 22, 30
Panasonic | 44, 45
Pentax | 05
Philco | 05
Philips | 05, 08
RCA | 06, 07, 33, 51
Realistic | 01, 02, 10, 24
Samsung | 23, 31
Sanyo | 10, 14, 52
Scott | 20
Sears | 06, 11, 24
Sharp | 01, 02, 03
Shintom | 36
Sony | 12, 13, 38
Sound Design | 29
Sylvania | 05, 08
Symphonic | 29
Tatung | 15
Teac | 15, 29
Teknika | 27, 29
Thomas | 29
TMK | 21
Toshiba | 19, 20
Video Concepts | 30
Yamaha | 15, 29, 30
Zenith | 16

**DVD/LD BRAND** | REMOTE CONTROL CODE NUMBER
---|---
Denon | 02
JVC | 09, 13
Kenwood | 21
Magnavox | 04
Marantz | 04
Mitsubishi | 06
Panasonic | 02, 22
Philips | 04, 23
Pioneer | 08, 11, 20
Proscan | 03
RCA | 03, 24
Samsung | 07, 12
Sharp | 01, 10
Sony | 05, 25
Toshiba | 04
Yamaha | 02
Zenith | 04

**CATV CONVERTER BRAND** | REMOTE CONTROL CODE NUMBER
---|---
Anvision | 04, 05
Cable Star | 04, 05
Eagle | 05
General Instrument | 02, 03, 07, 12, 13, 14, 19, 22
Jerrold | 02, 03, 07, 12, 13, 14, 19, 22, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40
Magnavox | 04, 05, 09, 14, 17, 18, 20, 21, 24, 25
Oak Sigma | 08
Panasonic | 16, 23
Philips | 04, 05, 09, 15, 17, 18, 20, 21, 24, 25
Pioneer | 08, 10, 29, 30, 46
Randtek | 04, 05
RCA | 16, 27, 44, 45
Scientific Atlanta | 01, 26
Sony | 28
Viewstar | 04, 05, 09, 15, 17, 18, 20, 21, 24, 25
Zenith | 06, 14

**AUDIO BRAND** | REMOTE CONTROL CODE NUMBER
---|---
Sharp | 01
Other viewing options

Cable control buttons

When the FUNCTION is set to CBL/SAT the cable converter connected to the Display can operate using 1 to 4.

1 SOURCE POWER
   Turns the cable converter power on and off.

2 0 – 9
   Press a button (or buttons) that corresponds to the channel that you wish to watch.

3 FLASHBACK *
   Press to switch between the current channel and the channel you were watching immediately before.

4 CH ▲ / ▼
   Press CH ▲ or CH ▼ to tune in a higher or lower channel.

* Some manufacturers do not preset FLASHBACK.

NOTE
• CABLE and SAT cannot be selected at the same time.

SAT control buttons

1 SOURCE POWER
   Turns the Satellite broadcast tuner power on and off.

2 0 – 9
   Press a button (or buttons) that corresponds to the channel that you wish to watch.

3 ENTER, ▲ / ▼ / ◀ / ◀
   ENTER: Press to activate the selected function.
   ▲ / ▼ / ◀ / ◀: Press the button to select items on the SAT GUIDE screen or SAT MENU screen.

NOTE
• CABLE and SAT cannot be selected at the same time.
**VCR control buttons**

The remote control unit button will function as follows when the **FUNCTION** of the remote control unit is set to VCR.

- When the input selector button having the same number as the input terminal connecting the VCR is pressed, the VCR can operate using 1 to 8.

1. **CH ▲▼**
   - Press to select the channel of the TV tuner on the VCR.

2. **SOURCE POWER**
   - Turns the power of the VCR on and off.

3. **■**
   - Sets pauses and still pictures.

4. **⏪**
   - Rewinds the tape and allows picture search.

5. **■**
   - Stops the tape transport.

6. **REC**
   - Start recording.

7. **⏩⏩**
   - Rapidly advances the tape and allows picture search.

8. **▶**
   - Starts playback.
Other viewing options

DVD control buttons

The remote control unit button will function as follows when the FUNCTION of the remote control unit is set to DVD.

- When the input selector button having the same number as the input terminal connecting a DVD player is pressed, these players can operate using 1 to 11. (7 to 9 are for DVD players only.)

1. Pressing quickly once takes you to the start of the next chapter. Each time you press it, you move ahead to the start of the next chapter.

2. Pressing quickly once takes you to the start of the chapter currently playing. Each time you press it, you move back to the start of the previous chapter.

3. SOURCE POWER
   Turns the power of the DVD player on and off.

4. Set pauses and still pictures.

5. Continue pressing to go backward.

6. Playback stops when pressing once. With some DVD players, pressing the button twice may open the disc tray.

7. DVD MENU
   When this button is pressed, the DVD menu will display.

8. ENTER, ▲▼◄►
   ENTER: Press to activate the selected function.
   ▲▼◄►: Press the button to select items on the DVD MENU screen.

9. Continue pressing for fast forward.

10. Starts playback.
## Troubleshooting

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>• No power</td>
<td>• Make sure the Display and the AVC System are connected correctly. (See page XX.)&lt;br&gt;• Check if you pressed <strong>TV POWER</strong> on the remote control unit. (See page XX.)&lt;br&gt;• If the indicator on the Display lights up red, press <strong>POWER</strong> on the Display.&lt;br&gt;• Is the AC cord disconnected? (See page XX.)&lt;br&gt;• Has the main power been turned on? (See page XX.)</td>
</tr>
<tr>
<td>• Unit cannot be operated.</td>
<td>• External influences such as lightning, static electricity, may cause improper operation. In this case, operate the unit after first turning on the power of the Display and the AVC System, or unplugging the AC cord and replugging it in after 1 or 2 minutes.</td>
</tr>
<tr>
<td>• Remote control unit does not operate.</td>
<td>• Is the Mode switch set correctly? Slide it to the TV setting position.&lt;br&gt;• Are batteries inserted with polarity (+, –) aligned? (See page XX.)&lt;br&gt;• Are batteries worn out? (Replace with new batteries.)&lt;br&gt;• Are you using it under strong or fluorescent lighting?&lt;br&gt;• Is a fluorescent light illuminated near the remote control sensor?</td>
</tr>
<tr>
<td>• Picture is cut off/with sidebar screen.</td>
<td>• Is the image position correct? (See pages XX and XX.)&lt;br&gt;• Are screen mode adjustments such as picture size made correctly? (See pages XX and XX)</td>
</tr>
<tr>
<td>• Strange color, light color, or color misalignment</td>
<td>• Adjust the picture tone. (See pages XX to XX.)&lt;br&gt;• Is the room too bright? The picture may look dark in a room that is too bright.&lt;br&gt;• Check the input signal setting. (See page XX.)</td>
</tr>
<tr>
<td>• Power is suddenly turned off.</td>
<td>• Is the sleep timer set? (See page XX.)&lt;br&gt;• Check the power control settings. (See pages XX and XX.)&lt;br&gt;• The unit's internal temperature has increased.&lt;br&gt;Remove any objects blocking vent or clean.</td>
</tr>
<tr>
<td>• No picture</td>
<td>• Is connection to other components correct? (See pages XX to XX.)&lt;br&gt;• Is correct input signal source selected after connection? (See page XX.)&lt;br&gt;• Is the correct input selected? (See page XX.)&lt;br&gt;• Is a non-compatible signal being input? (See page XX.)&lt;br&gt;• Is picture adjustment correct? (See pages XX to XX.)&lt;br&gt;• Is “On” selected in “Audio Only”? (See page XX.)</td>
</tr>
<tr>
<td>• No sound</td>
<td>• Is the volume too low? (See page XX.)&lt;br&gt;• Is “Variable” selected in “Output Select”? (See page XX.)&lt;br&gt;• Is correct speaker output (“Speaker-A” or “Speaker-B”) selected in “Speaker”? (See pages XX and XX.)&lt;br&gt;• Is “On” selected in “Center Channel Input”? (See page XX.)</td>
</tr>
</tbody>
</table>
### PC compatibility chart

<table>
<thead>
<tr>
<th>PC/MAC</th>
<th>Resolution</th>
<th>Horizontal Frequency</th>
<th>Vertical Frequency</th>
<th>VESA Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC</td>
<td>640 x 400</td>
<td>31.5 kHz</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>720 x 400</td>
<td>37.9 kHz</td>
<td>85 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td>640 x 480</td>
<td>31.5 kHz</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>37.9 kHz</td>
<td>85 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>37.9 kHz</td>
<td>72 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>37.5 kHz</td>
<td>75 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>43.3 kHz</td>
<td>85 Hz</td>
<td>O</td>
</tr>
<tr>
<td>WVGA</td>
<td>848 x 480</td>
<td>31.5 kHz</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td>SVGA</td>
<td>800 x 600</td>
<td>35.1 kHz</td>
<td>56 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>37.9 kHz</td>
<td>60 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>48.1 kHz</td>
<td>72 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>46.9 kHz</td>
<td>75 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>53.7 kHz</td>
<td>85 Hz</td>
<td>O</td>
</tr>
<tr>
<td>XGA</td>
<td>1024 x 768</td>
<td>48.4 kHz</td>
<td>60 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>56.5 kHz</td>
<td>70 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>60.0 kHz</td>
<td>75 Hz</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td>68.7 kHz</td>
<td>85 Hz</td>
<td>O</td>
</tr>
<tr>
<td>WXGA</td>
<td>1280 x 720</td>
<td>45.0 kHz</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1280 x 768</td>
<td>48.1 kHz</td>
<td>60 Hz</td>
<td></td>
</tr>
<tr>
<td>SXGA</td>
<td>1280 x 1024</td>
<td>64.0 kHz</td>
<td>60 Hz</td>
<td>O</td>
</tr>
<tr>
<td>MAC13&quot;</td>
<td>VGA</td>
<td>640 x 480</td>
<td>34.9 kHz</td>
<td>67 Hz</td>
</tr>
<tr>
<td>MAC16&quot;</td>
<td>SVGA</td>
<td>832 x 624</td>
<td>49.7 kHz</td>
<td>75 Hz</td>
</tr>
<tr>
<td>MAC19&quot;</td>
<td>XGA</td>
<td>1024 x 768</td>
<td>60.2 kHz</td>
<td>75 Hz</td>
</tr>
</tbody>
</table>

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Power Management is a registered trademark of Sun Microsystems, Inc.
VGA and XGA are registered trademarks of International Business Machines Co., Inc.
Appendix

RS-232C port specifications

PC Control of the System
• When a program is set, the Display can be controlled from the PC using the RS-232C terminal.
  The input signal (PC/AV) can be selected, the volume can be adjusted and various other adjustments and
  settings can be made, enabling automatic programmed playing.
• Attach an RS-232C cable cross-type (commercially available) to the supplied Din/D-Sub RS-232C for the
  connections.

NOTE
• This operation system should be used by a person who is accustomed to using computers.

Communication conditions
Set the RS-232C communications settings on the PC to match the display's communications conditions.
The Display's communications settings are as follows:

| Baud rate: | 9,600 bps |
| Data length: | 8 bits |
| Parity bit: | None |
| Stop bit: | 1 bit |
| Flow control: | None |

Communication procedure
Send the control commands from the PC via the RS-232C connector.
The display operates according to the received command and sends a response message to the PC.
Do not send multiple commands at the same time. Wait until the PC receives the OK response before sending
the next command.

Command format
Eight ASCII codes + CR

C1 C2 C3 C4 P1 P2 P3 P4

Command 4-digits: Command. The text of four characters.
Parameter 4-digits: Parameter 0 – 9, x, blank, ?

Parameter
Input the parameter values, aligning left, and fill with blank(s) for the remainder. (Be sure that 4 values are input for the
parameter.)
When the input parameter is not within an adjustable range, “ERR” returns. (Refer to “Response code format”.)
No problem to input any numerical value for “x” on the table.

0
0 0 0 9
– 3 0
1 0 0
0 0 5 5

When “?” is input for some commands, the present setting value responds.

? ? ?

Appendix

## Command table

- About the command except being indicated here, it is outside the guarantee range of operation.

<table>
<thead>
<tr>
<th>CONTROL ITEM</th>
<th>COMMAND</th>
<th>PARAMETER</th>
<th>CONTROL CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER SETTING</td>
<td>POWER</td>
<td>SETTING</td>
<td>It shifts to standby.</td>
</tr>
<tr>
<td>INPUT SELECTION A</td>
<td>INPUT 5</td>
<td>ID</td>
<td>It input-switches to INPUT1~INPUT5.</td>
</tr>
<tr>
<td>INPUT SELECTION B</td>
<td>INPUT 5</td>
<td>ID</td>
<td>It input-switches by the toggle. (Toggle)</td>
</tr>
<tr>
<td>AV MODE SELECTION</td>
<td>AV MODE</td>
<td>SELECTION</td>
<td>It input-switches to TV. (A channel remains as it is. (Last memory))</td>
</tr>
<tr>
<td>VOLUME</td>
<td>VOLUME</td>
<td></td>
<td>It input-switches to CARD mode.</td>
</tr>
<tr>
<td>POSITION</td>
<td>POSITION</td>
<td></td>
<td>It input-switches to CARD mode.</td>
</tr>
<tr>
<td>VIEW MODE</td>
<td>VIEW MODE</td>
<td></td>
<td>An input change is also included.</td>
</tr>
<tr>
<td>MUTE</td>
<td>MUTE</td>
<td></td>
<td>Although it can choose now, it is toggle operation in inside.</td>
</tr>
<tr>
<td>AUDIO SELECTION</td>
<td>AUDIO SELECTION</td>
<td></td>
<td>Although it can choose now, it is toggle operation in inside.</td>
</tr>
</tbody>
</table>

### NOTE

- If an underbar (_) appears in the parameter column, enter a space.
- If an asterisk (*) appears, enter a value in the range indicated in brackets under CONTROL CONTENTS.
- As long as that from which the parameter (x) in the table is a numerical value, it may write anything.
## Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>32&quot; LIQUID CRYSTAL TELEVISION, Model: LC-32G4U (Display) TU-GA1U-S (AVC System)</th>
<th>37&quot; LIQUID CRYSTAL TELEVISION, Model: LC-37G4U (Display) TU-GA1U-S (AVC System)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD panel</td>
<td>32&quot; Advanced Super View &amp; BLACK TFT LCD</td>
<td>37&quot; Advanced Super View &amp; BLACK TFT LCD</td>
</tr>
<tr>
<td>Number of dots</td>
<td>3,147,264 dots (1366 × 768 × 3dots)</td>
<td></td>
</tr>
<tr>
<td>TV Function</td>
<td>TV-standard (CCIR) American TV Standard NTSC System</td>
<td></td>
</tr>
<tr>
<td>Receiving Channel</td>
<td>VHF/UHF VHF 2-13ch, UHF 14-69ch</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CATV 1-125ch</td>
<td></td>
</tr>
<tr>
<td>Audio multiplex</td>
<td>BTSC System</td>
<td></td>
</tr>
<tr>
<td>Brightness</td>
<td>450 cd/m²</td>
<td></td>
</tr>
<tr>
<td>Backlight</td>
<td>60,000 hours (at Backlight Standard position)</td>
<td></td>
</tr>
<tr>
<td>Viewing angles</td>
<td>H : 170° V : 170°</td>
<td></td>
</tr>
<tr>
<td>Audio amplifier</td>
<td>10W × 2</td>
<td></td>
</tr>
<tr>
<td>Speakers</td>
<td>Ø 8cm 2pcs, Ø 2.5cm 2pcs</td>
<td></td>
</tr>
<tr>
<td>Terminals</td>
<td>AVC System</td>
<td>Rear</td>
</tr>
<tr>
<td></td>
<td>INPUT 1 AV in, COMPONENT in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INPUT 2 AV in, COMPONENT in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INPUT 4 HDMI in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>INPUT 5 Audio in, DVI-I in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANTENNA 75 Ω Unbalance, F Type for VHF/UHF/CATV in × 2, out × 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Monitor Out S-VIDEO out, AV out</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPEAKER-B 4 Ω 10W (L/R)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CENTER CHANNEL INPUT RCA pin</td>
<td></td>
</tr>
<tr>
<td>Front</td>
<td>INPUT 3 S-VIDEO in, AV in</td>
<td></td>
</tr>
<tr>
<td>Headphones</td>
<td>Ø 3.5mm jack</td>
<td></td>
</tr>
<tr>
<td>OSD language</td>
<td>English/French/Spanish</td>
<td></td>
</tr>
<tr>
<td>Power Requirement</td>
<td>AC 110-240 V, 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>AVC System 48W (0.4W Standby with AC 120 V)</td>
<td>Display 127W (0.2W Standby with AC 120 V) 168W (0.2W Standby with AC 120 V)</td>
</tr>
<tr>
<td>Weight</td>
<td>AVC System 14.8 lbs./6.7 kg (w/o stand), 15.2 lbs./6.9 kg (with stand)</td>
<td>Display 28.7 lbs./13 kg (Display only), 38.6 lbs./17.5 kg (with Display and speaker), 48.5 lbs./22 kg (with Display, speaker and stand) 30.9 lbs./14 kg (Display only), 43 lbs./19.5 kg (with Display and speaker), 52.9 lbs./24 kg (with Display, speaker and stand)</td>
</tr>
<tr>
<td>Accessories</td>
<td>Operation manual (× 1), Remote control unit (× 1), System cable (× 1), AC cord (× 2), &quot;AAA&quot; size battery (× 2), AVC system stand unit (× 1), Cable clamp (× 1), RF cable (× 1)</td>
<td>Operation manual (× 1), Remote control unit (× 1), System cable (× 1), AC cord (× 2), &quot;AAA&quot; size battery (× 2), AVC system stand unit (× 1), Cable clamp (× 1), RF cable (× 1), Bracket unit (× 1), Speaker unit (× 1)</td>
</tr>
</tbody>
</table>

* As part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

### Optional accessory

The listed optional accessory is available for the Liquid Crystal Television. Please purchase it at your nearest shop.

* Additional optional accessories may be available in the near future. When purchasing, please read the newest catalogue for compatibility and check the availability.

<table>
<thead>
<tr>
<th>Part name</th>
<th>Part number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wall mount bracket</td>
<td>AN-37AG2</td>
</tr>
</tbody>
</table>
Dimensional drawings

Display LC-37G4U

Unit: inch/(mm)
Dimensional drawings

AVC System

Unit: inch/(mm)
HOW TO SET THE FACTORY PRESETS
Press and hold down RESET on the AVC System while it is in standby mode. Then press POWER button on the Display or TV POWER on the remote control unit to turn the System on. All setting items (except TV channel) return to the factory presetting.

NOTE
• Running the factory presetting operation also clears the secret number.

You can run the EZ Setup again by using the following steps.
1 Turn on the power of the Display and the AVC System.
2 Press MENU. (Make sure the menu screen displays.)
3 Press ▼/▲ to select “Setup”.
4 Press ▲/▼ to select “EZ Setup”.
5 Press ENTER.

NOTE
• If the secret number setting screen displays, you need to enter your secret number.
• If you forget your secret number, refer to HOW TO SET THE FACTORY PRESETS above.

The secret number is [ ] [ ] [ ] .

NOTE
• As a precautionary measure, make a note of your secret number above, scissor it from this manual, and keep it in a familiar place.
# LIMITED WARRANTY

**CONSUMER LIMITED WARRANTY**

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise.

In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

### Model Specific Section

**Your Product Model Number & Description:**

<table>
<thead>
<tr>
<th>Product Model Number &amp; Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC-37G4U LCD Color Television</td>
</tr>
<tr>
<td>LC-32G4U LCD Color Television</td>
</tr>
<tr>
<td>TU-GA1U-S LCD Color Television</td>
</tr>
</tbody>
</table>

**Warranty Period for this Product:**

One (1) year parts and labor from the date of purchase.

**Additional Item(s) Excluded from Warranty Coverage (if any):**

Non-rechargeable batteries.

**Where to Obtain Service:**

From a Sharp Authorized Servicer located in the United States.

To find the location of the nearest Sharp Authorized Servicer, call Sharp toll free at 1-800-BE-SHARP.

**What to do to Obtain Service:**

Contact your Sharp Authorized Servicer to obtain in-home service for this Product. The Servicer will come to your home and if it is necessary to remove the Product, the Servicer will reinstall it. Be sure to have Proof of Purchase available.

TO OBTAIN PRODUCT INFORMATION, CALL 1-888-LCD-SHARP OR VISIT www.sharpusa.com
LIMITED WARRANTY

Consumer Electronics Products

Congratulations on your purchase!

Sharp Electronics of Canada Ltd. (hereinafter called “Sharp”) gives the following express warranty to the first consumer purchaser for this Sharp brand product, when shipped in its original container and sold or distributed in Canada by Sharp or by an Authorized Sharp Dealer:

Sharp warrants that this product is free, under normal use and maintenance, from any defects in material and workmanship. If any such defects should be found in this product within the applicable warranty period, Sharp shall, at its option, repair or replace the product as specified herein.

This warranty shall not apply to:
(a) Any defects caused or repairs required as a result of abusive operation, negligence, accident, improper installation or inappropriate use as outlined in the owner’s manual.
(b) Any Sharp product tampered with, modified, adjusted or repaired by any party other than Sharp, Sharp’s Authorized Service Centres or Sharp’s Authorized Servicing Dealers.
(c) Damage caused or repairs required as a result of the use with items not specified or approved by Sharp, including but not limited to head cleaning tapes and chemical cleaning agents.
(d) Any replacement of accessories, glassware, consumable or peripheral items required through normal use of the product including but not limited to earphones, remote controls, AC adapters, batteries, temperature probe, stylus, trays, filters, belts, ribbons, cables and paper.
(e) Any cosmetic damage to the surface or exterior that has been defaced or caused by normal wear and tear.
(f) Any damage caused by external or environmental conditions, including but not limited to transmission line/power line voltage or liquid spillage.
(g) Any product received without appropriate model, serial number and CSA/cUL markings.
(h) Any installation, setup and/or programming charges.

Should this Sharp product fail to operate during the warranty period, warranty service may be obtained upon delivery of the Sharp product together with proof of purchase and a copy of this LIMITED WARRANTY statement to an Authorized Sharp Service Centre or an Authorized Sharp Servicing Dealer. In home warranty service may be provided at Sharp’s discretion on any Sharp television with the screen size of 27” or larger and on any Sharp Over-the-Range Microwave Oven.

This warranty constitutes the entire express warranty granted by Sharp and no other dealer, service centre or their agent or employee is authorized to extend, enlarge or transfer this warranty on behalf of Sharp. To the extent the law permits, Sharp disclaims any and all liability for direct or indirect damages or losses or for any incidental, special or consequential damages or loss of profits resulting from a defect in material or workmanship relating to the product, including damages for the loss of time or use of this Sharp product or the loss of information. The purchaser will be responsible for any removal, reinstallation, transportation and insurance costs incurred. Correction of defects, in the manner and period of time described herein, constitute complete fulfillment of all obligations and responsibilities of Sharp to the purchaser with respect to the product and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise.

WARRANTY PERIODS:

<table>
<thead>
<tr>
<th>Category</th>
<th>Parts &amp; Labour (exceptions noted)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio Products</td>
<td>1 year</td>
</tr>
<tr>
<td>Camcorder</td>
<td>1 year</td>
</tr>
<tr>
<td>DVD Products</td>
<td>1 year</td>
</tr>
<tr>
<td>Projector</td>
<td>1 year (lamp 90 days)</td>
</tr>
<tr>
<td>LCD &amp; Plasma Display TV</td>
<td>1 year</td>
</tr>
<tr>
<td>Microwave Oven</td>
<td>1 year (magnetron component-4 additional years)</td>
</tr>
<tr>
<td>Television Products</td>
<td>1 year (picture tube component-1 additional year)</td>
</tr>
<tr>
<td>VCR Products</td>
<td>1 year</td>
</tr>
<tr>
<td>Vacuum Cleaner</td>
<td>1 year</td>
</tr>
</tbody>
</table>

To obtain the name and address of the nearest Authorized Sharp Service Centre or Dealer, please contact:
SHARP ELECTRONICS OF CANADA LTD. 335 Britannia Road East, Mississauga, Ontario L4Z 1W9

For more information on this Warranty, Sharp Extended Warranty Offers, Sharp Canada Products, Accessory Sales, Dealer or Service Locations, please call (905) 568-7140
Visit our Web site: www.sharp.ca

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