



LIQUID CRYSTAL TELEVISION

# LC-13SH6U/LC-15SH6U/LC-20SH6U



Products that have earned the ENERGY STAR\* are designed to protect the environment through superior energy efficiency.



Model No :

Serial No.:

IMPORTANT:

To aid reporting in case of loss or theft, please record the TV's model and serial numbers in the space provided. The numbers are located at the rear of the TV.

# **IMPORTANT INFORMATION**

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



Printed in China TINS-C346WJZZ 06P03-CH-NF

# **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 STOPS, 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.

U.S.A. ONLY

"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."

U.S.A. ONLY

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.ela org

# 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 PRECAUTIONS

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 LCD color TV product. please read the following precautions carefully before using the product

- B Read instructions -- All operating instructions must be read and understood before the product is operated. Keep this manual in a safe place - These safety and operating instructions must be kept in a safe place for future reference
- Observe warnings All warnings on the product and in the instructions must be observed closely
- Follow instructions All operating instructions must be followed
- Attachments-Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can 团 result in accidents
- Power source This product must operate on a power source specified on the specification label. If you are not sure of 22 the type of power supply used in your home, consult your dealer or local power company. For units designed to operate on batteries or another power source, refer to the operating instructions.
- AC cord protection The AC cords must be routed properly to prevent people from stepping on them or objects from resting on them. Check the cords at the plugs and product
- Overloading Do not overload AC outlets or extension cords 23
- Overloading can cause fire or electric shock
- Entering of objects and liquids-Never insert an object into the product through vents or openings. High voltage flows in 櫰 the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.
- Servicing Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing. Repair—If any of the following conditions occurs, unplug the AC cord from the AC outlet, and request a qualified service
- 液 person to perform repairs

  - a. When the AC cord or plug is damaged.
    b. When a liquid was spilled on the product or when objects have fallen into the product.
    c. When the product has been exposed to rain or water.

  - When the product does not operate properly as described in the operating instructions Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician
  - When the product has been dropped or damaged
  - When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing
- Replacement parts In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger
- Safety checks-Upon completion of service or repair work, request the service technician to perform safety checks to 85
- ensure that the product is in proper operating condition. Wall or ceiling mounting -- When mounting the product on a wall or ceiling, be sure to install the product according to the 123 method recommended by the manufacturer.
- Polarization This AC cord may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other) This plug will lit into the power outlet only one way. This is a safety feature If you are unable to insert the plug fully into the outlet, try reversing the plug If the plug should still fail to fit, contact your electrician to replace your obsolete outlet.
- Do not defeat the safety purpose of the polarized plug. Cleaning—Unplug the AC cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product Do not use liquid cleaners or aerosol cleaners
- Water and moisture Do not use the product near water, such as bathtub, washbasin, kitchen sink and laundry tub, swimming pool and in a wet basement.
- 躢 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

- When relocating the product placed on a cart, it must be moved with utmost care. Sudden stops, excessive force and uneven floor surface can cause the product to fall from the cart.
- 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, sola, 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 Liquid Crystal panel breaks.
- Heat sources—Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).
- The Liquid Crystal panel is a very high technology product with 921,600 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.

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. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- Lightning For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long period 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.
- D To prevent fire, never place any type of candle or 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 cord under the TV set or other heavy items.
- Do not display a still picture for a long time, as this could cause an alterimage to remain.
- Install the product on the place where the AC cord can be unplugged easily from the AC outlet, or from the AC INPUT terminal on the rear of the product.

# Supplied Accessories

Make sure the following accessories are provided with the LCD TV set



# Preparation





75-ohm coaxial cable

(The breaking of internal circuit, etc.)



# Part Names of Main Unit

The examples used throughout this manual are based on the LC-20SH6U model

## Controls



How to adjust the angle

NOTE>

• INPUT, CH (\u03c6), VOL (-)/(+) and MENU on the main unit have the same functions as the same buttons on the remote control Fundamentally, this operation manual provides a description based on operation using the remote control



# Part Names of Main Unit (Continued)

# Terminals



\* Using the Kensington Lock

 This LCD TV set has a Kensington Security Standard slot for use with a Kensington MicroSaver Security System Refer to the information that came with the system for instructions on how to use it to secure the LCD TV set



# Part Names of Remote Control



### **EZ SETUP during the First Power On**

- When you turn on the TV for the first time, it will automatically memorize the broadcasting channels Please perform the following instructions before you press
  - Please perform the following instructions before you press POWER.
  - (1) Insert the batteries into the remote control
  - (2) Connect the antenna cable to the LCD TV set
  - (3) Plug in the AC cord to the wall outlet

POWER



- 1 Press POWER, located on the upper side of the main unit, to turn on the TV The SELECT LANGUAGE mode will be displayed.
  - Press A/V to select "ENGLISH", 'ESPANOL"
  - (Spanish) or "FRANÇAIS" (French)

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2 Press ENTER to access CH-SETTING mode. Press ▲/▼ to select "ON" or "OFF" When you select "ON", the LCD TV set will automatically memorize the broadcasting channels

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NOTE>

· If you select "OFF". EZ SETUP will be canceled

3 Press ENTER to access START EZ SETUP mode Press ▲/♥ to select "YES", and press ENTER

#### NOTE>

 If you want to stop the EZ SETUP process once it has started, press MENU and it will be canceled. If you want to set up again, please see CH-SETTING

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The tuner will automatically search for the broadcasting and cable TV channels. (The channel number will automatically increase when it appears.)



4 Once EZ SETUP is completed, the lowest channel number memorized will be displayed



#### NOTE>

- Do not let the EZ SETUP screen remain unattended for a long time.
- If EZ SETUP does not memorize all the channels in your region, please see CH-SETTING for more information on manually memorizing the channels using CH-SETTING.
- It may be difficult to preset when the broadcasting signals are weak, the channel cycle frequency is incorrect or the frequency jamming is occurring around the area Please see CH-SETTING for more information on manually memorizing the channels using CH-SETTING

# **Basic Operation**

# Turning On and Off the Main Power



• Press POWER. The POWER indicator instantly changes from red to green and the LCD TV set is turned on.

On-screen display

STEREO SAP Moho

#### NOTE

- The On-screen display disappears after a lew seconds
- To turn off the main power, press POWER again

### Standby



To turn off the LCD TV set Press POWER. The POWER indicator will turn red

To turn the LCD TV set back on

Press POWER again The POWER indicator will turn green

# Switching the Input Modes (INPUT1/INPUT2/INPUT3/TV)



- 1 Turn on the power of the connected video equipment.
- Press INPUT (\u03c6)(\u03c6) to select the applicable input source. The screen changes in order of INPUT1, INPUT2, INPUT3 and TV mode each time INPUT is pressed.



NOTE

INPUT1 :

Used for video equipment connected to the COMPONENT input terminals.

 INPUT2 : Used for video equipment connected to the INPUT2 terminal The S-video input terminal is additionally provided for the INPUT2 If both the S-video terminal and normal video terminals are connected with cables. the S-video input terminal takes priority

 INPUT3 : INPUT3 mode is used to adjust the preset settings and IN or OUT can be selected. INPUT3 indication is not displayed when OUT is selected

### Sound Volume

To adjust the volume



 Press VOL (+) to increase the sound volume The bar indicator shifts right

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Press VOL (--) to decrease the sound volume. The bar indicator shifts left

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#### To mute the sound

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- Press MUTE to temporarily turn off the sound. The MUTE mark b is displayed for 4 seconds
- Press MUTE or VOL (+)/(-) to turn the sound back to the previous level

The mute function is automatically turned off when any of the following buttons are pressed: POWER, MUTE, VOL (+)/(-) or MTS



NOTE>

- When VOL (+)/(-) is pressed in the Mute mode, the sound turns on and the volume indicator is displayed.
- The Mute function is canceled when POWER is pressed

#### To select MTS (Multichannel TV Sound)



NOTE>

"ON AIR" appears when a STEREO or SAP broadcast is being aired

## **Changing Channels**

You can select channels using Channel Select or CH ( $\wedge$ )/( $\sim$ )

This LCD TV set allows you to select up to 125 channels
 (1 to 125) To select a channel, enter a 2- or 3-digit number

#### Using Channel Select

When selecting the channel using **Channel Select**, complete input of the channel number by holding down the button for the last digit for a moment.

To select a 1- or 2-digit channel number (e.g., Channel 5): Complete the following procedure within 4 seconds



NOTE>

When selecting a 1-digit channel number, do not fail to press the
 button first

To select a 3-digit channel number (e.g., Channel 115): Complete the following procedure within 4 seconds.



3 Press the ⑤ button

NOTE>

 The 3-digit channel number can be selected only when the receiving mode is set to CABLE in CH-SETTING

115

```
Changing channels with CH (\land)/(\checkmark) on the remote control
Air: Press CH (\land) and the channels change in the order shown below:
2 \rightarrow 3 \rightarrow \cdots \rightarrow 68 \rightarrow 69 \rightarrow 2 \rightarrow 3 \rightarrow
Press CH (\checkmark) and the channels change in the order shown below:
3 \rightarrow 2 \rightarrow 69 \rightarrow 68 \rightarrow \cdots \rightarrow 3 \rightarrow 2 \rightarrow
Cable: Press CH (\land) and the channels change in the order shown below:
1 \rightarrow 2 \rightarrow 3 \rightarrow \cdots \rightarrow 125 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow
Press CH (\checkmark) and the channels change in the order shown below:
3 \rightarrow 2 \rightarrow 1 \rightarrow 125 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow
Press CH (\checkmark) and the channels change in the order shown below:
3 \rightarrow 2 \rightarrow 1 \rightarrow 125 \rightarrow \cdots \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow
```

#### Using FLASHBACK

- Press FLASHBACK to switch the currently tuned channel to the previously tuned channel
- Press FLASHBACK again to switch back to the currently tuned channel

### Selecting Menu Items

The menus can be used to adjust the various settings of your LCD TV set. Select the desired menu item by following the steps below. See the right column for each Menu screen

#### NOTE>

- The items displayed differ depending on the setting conditions
- The item selected is displayed in yellow
- Settings most recently adjusted will be saved in memory

#### Using the remote control



1 Press MENU on the remote control to display the Menu Screen

#### 2 Press **4/**▶ to select the desired menu item • The cursor moves left or right.

- . The cursor indicates the selected menu item.
- 3 Press ▲/▼ to select the desired item, and press ◀/▶ to adjust the selected item
  - For "AV MODE", "ADVANCED" and "RESET". press ENTER to display the setting screen.

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4 Press MENU RETURN to return to the previous screen, or press MENU to exit

#### Using the control panel of the main unit

Control panel of the main unit



- Press MENU on the main unit to display the Menu Screen
- Gueen
- 2 Press VOL (-)/(+) to select the desired menu item
  - The cursor moves left or right
  - The cursor indicates the selected menu item
- Bress CH (√)/(∧) to select the desired item, and press
   VOL (-)/(+) to adjust the selected item.
   For "AV MODE", "ADVANCED" and "RESET", press
  - INPUT to display the setting screen
- 4 Press MENU to exit

#### Menu setting screens

#### NOTE>

- The illustrations and on-screen displays in this manual are for explanation purposes and may vary slightly from the actual appearance.
- Depending on the setting condition, such as an input mode. It may not be possible to adjust or set some items. In such cases, a message will be displayed on the menu setting screen

#### PICTURE



The bar above is an operational guide for the remote control. The bar will change in accordance with each menu setting screen.

#### AUDIO



SETUP

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#### OPTION



### AV MODE

AV MODE gives you preset options to choose from, to best match the image based on room-brightness and playback software used



- 1 Press MENU to display the Menu Screen
- 2 Press √/>> to select "PICTURE"
- 3 Press ▲/▼ to select "AV MODE", and press ENTER
- Press  $\mathbf{A}/\mathbf{\nabla}$  to select desired setting, and press ENTER 4

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#### 5 Press MENU to exit

#### 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)] ' is displayed and the items in the PICTURE screen (except "ADVANCED") cannot be set

#### **Directly setting the AV MODE**

#### 1 Press AV MODE

- Before the AV MODE display disappears, press 2 AV MODE again and select your desired setting
  - Each time you press AV MODE, the mode changes as shown below

AV MODE (STANDARD) ------> AV MODE (DYNAMIC)

- AV MODE (GAME) 🔶 AV MODE (MOVIE) 🔶 AV MODE (DYNAMIC (FIXED)) 🗲

Selected item	Description
STANDARD	Changing image settings to standard values.
DYNAMIC	For a clear-cut image emphasizing high contrast for sports viewing.
DYNAMIC (FIXED)	Changing image settings to factory preset values No adjustments are allowed.
MOVIE	Controlling the contrast to enable easier viewing of dark images.
GAME	Controlling the brightness of video games and other images for easier viewing.

### COLOR TEMPERATURE

You can adjust the color temperature to give a better white balance



- 1 Press MENU to display the Menu screen
- 2 Press 4/> to select "PICTURE"
- 3 Press ▲/▼ to select "ADVANCED", and press ENTER
- 4 Press ▲/▼ to select "COLOR TEMP ", and press ENTER.

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- 5 Press ▲/▼ to select the desired item, and press ENTER
- 6 Press MENU to exit

Selected item	Description
USER	Can set your desired color*
HIGH MIDDLE	White with Bluish tone
LOW	White with Reddish tone

"When you select "USER", the following items are adjustable

Selected Item	d button	> button
RED	Weaker red	Stronger red
GREEN	Weaker green	Stronger green
BLUE	Weaker blue	Stronger blue

NOTE >

- When resetting the items in the "USER" setting to factory preset values, perform the following procedures. ③ Press ▲/♥ to select "RESET" in the ADVANCED screen, and
- press ENTER ② Press ▲/▼ to select "YES", and press ENTER

### BACKLIGHT

You can adjust the brightness of the picture



- 1 Press MENU to display the Menu Screen
- 2 Press 4/> to select "PICTURE"
- 3 Press ▲/▼ to select "BACKLIGHT". PICTURE AUDIO DE BETURE ORI (ON ANGELEIDO ESTE ORANA ALE DE ESTE BACKLIGHT FAUNTES DOUNDER SECONDESTE ESTE in a share
- 4 Press 4/>> to adjust the item to your desired position
- 5 Press MENU to exit

**Directly setting the BACKLIGHT** 

- 1 Press BACKLIGHT to display the BACKLIGHT screen
- 2 Press BACKLIGHT to change the setting



#### NOTE>

- The BACKLIGHT screen automatically disappears in 3 seconds [BRIGHT]: Maximum brightness [NORIMAL]: Suitable for viewing in a well-lit area Saves energy [DARK]: Sufficiently bright when viewing in dim areas [VARIABLE]: The brightness can be adjusted to suit your prefer-
- ence using 4/▶

## **PICTURE Adjustments**

You can adjust the picture to your preference with the following picture settings



- 1 Press MENU to display the Menu screen
- 2 Press **√**/ to select "PICTURE"

3 Press A/V to select a specific adjustment item



- 4 Press **√** to adjust the item to your desired position
- 5 Press MENU to exit

Selected item	d button	▶ button
BACKLIGHT	The screen dims	The screen brightens
CONTRAST	For less contrast	For more contrast
BRIGHTNESS	For less brightness	For more brightness
COLOR	For less color intensity	For more color intensity
TINT	Skin tones become purplish	Skin tones become greenish
SHARPNESS	For less sharpness	For more sharpness

#### NOTE>

 When resetting all adjustment items (except for the items on the AV MODE and ADVANCED menus) to factory preset values. Press ▲/▼ to select "RESET" in the PIC FURE screen, and

press ENTER

(2) Press ▲/▼ to select "YES". and press ENTER

# **Basic Adjustment Settings (Continued)**

#### **AUDIO Adjustments**

SETUP

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



- Press MENU to display the Menu screen
- 2 Press √> to select "AUDIO"
- 3 Press ▲/▼ to select a specific adjustment item

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4 Press 4/▶ to adjust the item to your desired position

#### 5 Press MENU to exit

Selected item	<b>4</b> button	▶ button
TREBLE	For weaker treble	For stronger treble
BASS	For weaker bass	For stronger bass
BALANCE	Decrease audio from the right speaker	Decrease audio from the left speaker

NOTE>

- The items on the AUDIO menu cannot be set when "INPUT3 SELECT" is set to "OUT b% VAO"
  When resetting all adjustment items to factory preset values, perform the following procedures.
  ① Press ▲/♥ to select "RESET", and press ENTER
  ② Press ▲/♥ to select "YES" and press ENTER



1 Press MENU to display the Menu screen

- 2 Press 4/▶ to select "SETUP"
- 3 Press ▲/▼ to select desired item. and press ENTER



- 4 Press ▲/▼ to change the setting, and press ENTER
- 5 Press MENU to exit.

Selected item	Factory setting	Setting options
MTS	[STEREO] Stereo audio	[SAP] Secondary audio program [MONO]Monophonic audio
INPUT3 SELECT	[IN] INPUT3/OUTPUT terminals selected as input terminals	[OUT 4] FAO] Line Output is selected, Output volume is lixed Speaker output is available.
		[OUT ox VAO] Line Output is selected, Output volume is variable. Speaker output is mute
LANGUAGE	(ENGLISH)	[ESPANOL] [FRANÇAIS]

# **Useful Features**

#### **CH-SETTING**

#### EZ SETUP

When you move to an area with different broadcasting signals, you may have to set the channel numbers and the time with the EZ SETUP function To activate EZ SETUP, perform the following procedures

- ⑦ Press ▲/▼ to select "CH-SETTING" in the SETUP screen. and press ENTER. ② Press ▲/▼ to select "EZ SETUP", and press ENTER ③ Press ▲/▼ to select "YES". and press ENTER

#### Setting the AIR/CABLE

It is necessary to set the receiving mode to AIR or CABLE channels to receive locally broadcast TV programs



- 1 Press MENU to display the Menu screen
- 2 Press 4/> to select "SETUP"

3 Press ▲/♥ to select "CH-SETTING", and press ENTER

4 Press ▲/▼ to select "AIR/CABLE", and press ENTER

Press ▲/▼ to select desired setting, and press ENTER

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5 Press MENU to exit

#### NOTE>

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ŀ	Receivable channels o	I your LCD TV set are:		
	AIR channels:	CABLE channels:		
	VHF: 2 through 13	1 (HRC and IRC)		
	UHF: 14 through 69	2 through 125 (STD.	HRC and	IRC)

#### Saving broadcast TV channels in the memory



- 1 Press MENU to display the Menu screen
- 2 Press 4/> to select "SETUP"
- 3 Press ▲/▼ to select "CH-SETTING", and press ENTER
- 4 Press ▲/▼ to select "CH SEARCH", and press ENTER

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5 Press ENTER The luner will search through all available channels in your area and add them to the TV memory

		2
*******		
STEREO		
SAP MONO		

NOTE>

To interrupt CH SEARCH, press MENU RETURN CH SEARCH will stop at the current channel and will not add any higher channels

Adding weak or additional channels or erasing unwanted channels from TV memory

Individual settings of programs can be adjusted

1 In step 4 above, press A/V to select "CH MEMORY", and press ENTER.

EZ SETUP AIR/CABLE CHANNEL - 2000. CH SEARCH CHANNEL - 2000.	And the owner of the owner.	A DESCRIPTION OF THE OWNER OWNER	ADDRESS OF TAXABLE PARTY OF TAXABLE PART			-	ANDONH	-	*****	*****	-			
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- 2 Press A/V to move the cursor to "CHANNEL", and use ◀/▶ or Channel Select to select each desired channel to add or erase
- 3 Press A/V to move the cursor to "SKIP", and use to select "ON" or "OFF"
- 4 Press MENU to exit

NOTE>

<sup>·</sup> If CH SEARCH is performed again, the previously memorized channels will be lost

#### **V-CHIP Settings**

#### V-CHIP

- This function allows TV programs to be restricted and TV usage to be controlled based on FCC data. It prevents children from watching violent or sexual scenes that may be harmful
- · Restriction of TV programs includes two ratings that contain information about the program: the MPAA (Motion Picture Association of America) rating and the TV Parental Guidelines The MPAA rating is restricted by age TV Parental Guidelines are restricted by age and content
- · Since a TV program may use either the MPAA rating or the TV Guidelines, both should be adjusted for complete control

#### **MPAA** rating

RAT	ING	
	G	GENERAL AUDIENCES. All ages admitted.
	PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
age	PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
based	R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
	NC-17	NO ONE 17 AND UNDER ADMITTED.
	Х	X is an older rating that is unified with NC-17 but may be encoded in the data of older movies.

#### MPAA rating

Example 1: PG-13 in the age-based rating is blocked, this will also automatically block the higher ratings R. NC-17 and X	1. Use G PG-13 R NC-17 X	BLOCK BLOCK BLOCK BLOCK	age based	Block table G holds PG holds Block Block Block Block Block	Example 2: R in the age-based rating is blocked, this will also automatically block the higher ratings NC-17 and X	1. Use G PG PG-13 R NC-17 X	F Setting	2. J Jage based	PG PG-13 CGSY	ble noi to block noi to block noi to block Select block auto- block auto- block
NOTE >										

The MPAA rating is only age-based

#### TV parental guidelines

			← content based ⇒								
	Rating	FV (Fanlasy Violence)	V (Vialence)	S (Sexual Situation)	L (Adult Language)	D (Sexually Suggestive Dialog)					
	TV-Y (All children)	8	8	Ø	×	8					
	TV-Y7 (Direct to Older Children)	×	×	8	Ø						
	TV-G (General Audience)		×	8	8	8					
based	TV-PG (Parental Guidance Suggested)		×	×	×	×					
↓	TV-14 (Parents Strongly Cautioned)		×	×	×	×					
	TV-MA (Mature Audience Only)		×	×	×						

I: The content rating can be set, but this rating is not normally broadcast by TV stations

X: The content rating can be set

#### TV parental guidelines

#### Example:

When TV-Y7 in the age-based rating is set to BLOCK, this will automatically block the higher ratings; TV-G, TV-PG, TV-14 and TV-MA. In addition. D. L. S. V and FV in BLOCK CONTENT are automatically blocked unless you manually set BLOCK CONTENT

#### 1. User setting 2 Block table

TV-Y				FV	v	5	٤	0
TV-Y7	BLOCK		TV-Y					ľ
TV-G	BLOCK		TV-Y7	100000				
rv-PG	BLOCK	505	201 Stat					
rv-14	BLOCK	based	alaces		Massiljai	ALE ACE		10000000
TV-MA	BLOCK		STATE:		100 - 10	325705	Cart	500 State
DL SV	ONTENT		Sac Day		2. 1 A	99:25:44V		

- NOTE 
   Age-based ratings can be modified by the content-based ratings, but only in the combinations indicated by an X in the table above Choosing a lower age-based rating blocks the higher
  - age-based ratings regardless of content rating settings.
  - If you set TV-Y and TV-Y7 to BLOCK. BLOCK CONTENT will display all items

Soloct block 2923 Block

#### **Canadian Rating Systems**

- The TV 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**

Rating		Description :					
	С	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 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.					
	C8+						
	G	General: Considered acceptable for all age groups Appropriate viewing for the entire family contains very little violence, physical, verbal or emotional					
Age	PG	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					
	14 +	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					
	18 +	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					

#### **Canadian French ratings**

	Rating	Description
	G	General: All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner.
	8ans+	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
Age	13ans +	Over 13 years: Could contain scenes of frequent violent scenes and therefore recommended for viewing with parent
	16ans +	Over 16 years: Could contain frequent violent scenes and intense violence
	18ans+	Over 18 years: Only for adult viewing Could contain frequent violent scenes and extreme violence.

# **Useful Features (Continued)**

## V-CHIP Settings (Continued)

V-CHIP settings allow you to set MPAA rating, TV GUIDELINES, Canadian English ratings and Canadian French ratings

## Setting V-CHIP



- 1 Press MENU to display the Menu screen
- 2 Press **4/**▶ to select "SETUP"
- 3 Press ▲/♥ to select "V-CHIP BLOCK", and press ENTER.
- 4 "INPUT SECRET NO " will be displayed Input the 4digit secret number by using Channel Select.
  - NOTE
  - When you input the secret number for the first time, press ENTER to register Otherwise, continue to step 5



5 Press ▲/♥ to select the desired item, and press ENTER



6 Press ▲/▼ to select the desired item, and press ◀/▶ to select "BLOCK"



(TV GUIDELINES)



(Canadian English ratings) (Canadian French ratings)



7 Press MENU to exit

NOTE>

 The setting automatically enters "BLOCK" for any ratings below your selection

#### © Setting BLOCK CONTENT (TV GUIDELINES)

- 1 Repeat steps 1 to 4 of Setting V-CHIP
- 2 Press ▲/♥ to select "TV GUIDELINES", and press ENTER.
- **3** Press  $\Delta/\Psi$  to select "BLOCK CONTENT", and press ENTER



4 Press ▲/▼ to select the desired item, and press ◀/▶ to select "BLOCK" or "-----" (unblock)

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5 Press MENU to exit

#### Activating V-CHIP BLOCK Setting STATUS



1 Repeat steps 1 to 4 of Setting V-CHIP





Press ▲/▼ to select "ON", and press ENTER 3



II "STATUS" is set to "OFF". V-CHIP BLOCK will not be activated

Press MENU to exit 4

Canceling the V-CHIP BLOCK screen while V-CHIP BLOCK is activated

"V-CHIP HAS BEEN ACTIVATED" appears if you watch 1 a program with the same Program Rating data you configured

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Input the 4-digit secret number by using Channel 3 Select; V-CHIP BLOCK is temporarily canceled. If you input an incorrect secret number. "SECRET NO IS INCORRECT" is displayed In this case, input the correct secret number

#### Changing V-CHIP BLOCK settings

1 Repeat steps 1 to 3 of Setting V-CHIP, then "INPUT SECRET NO " will be displayed



2 Input the 4-digit secret number by using Channel Select; the V-CHIP select mode will be displayed Set the V-CHIP BLOCK again



Changing or clearing the SECRET NUMBER 34 If you forget the secret number, clear the secret number as follows



- Repeat steps 1 to 3 of Setting V-CHIP, or 1 and 2 of Canceling the V-CHIP BLOCK screen while V-CHIP 1 BLOCK is activated, then "INPUT SECRET NO " will be displayed
- 2 Press and hold both CH (^) and VOL (+) on the main unit simultaneously until the message "INPUT SECRET NO " blinks
- 3 Press MENU to exit

### **CLOSED CAPTION**

#### Setting CLOSED CAPTION

- This LCD TV set is equipped with an internal Closed Caption decoder "Closed Caption" is a system which allows conversations, narration, and sound effects in TV programs and home videos to be viewed as captions on the TV screen (see the illustration)
- · Not all programs and videos will offer closed captioning Please look for the "CC" symbol to ensure that captions will be shown
- The Closed Caption broadcasts can be viewed in two modes: CAPTION and TEXT For each mode, two channels are available: CH1 and CH2

The CAPTION mode shows subscripts of dialogs and commentaries of TV dramas and news

programs while allowing a clear view of the picture.

The TEXT mode displays various information over the picture (such as TV program schedules and weather forecasts. etc.) that is independent of the TV programs



#### Setting the CLOSED CAPTION on the Menu screen



1 Press MENU to display the Menu screen

- 2 Press **∢/** to select "SETUP"
- 3 Press ▲/♥ to select "CLOSED CAPTION ", and press ENTER
- 4 Press ▲/▼ to change the CLOSED CAPTION setting. and press ENTER

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NOTE

• CC1: CLOSED CAPTION mode for CH1 data CC2: CLOSED CAPTION mode for CH2 data T1: TEXT mode for CH1 data T2: TEXT mode for CH2 data

#### **Directly setting the CLOSED CAPTION**

1 Press CC to display the CC/TEXT screen



Press CC to change the setting

	FF]→	CC/TEXT [C	C1]
CC/TEXT (T2)+	CC/TEXT IT11+	CC/TEXT	ICC21-

#### NOTE>

- CC1: CLOSED CAPTION mode for CH1 data
- CC2: CLOSED CAPTION mode for CH2 data
- T1: TEXT mode for CH1 data
- TEXT mode for CH2 data T2:

#### NOTE>

- If a broadcast contains Closed Caption data and MUTE is pressed, the LCD TV set enters CLOSED CAPTION mode automatically Pressing MUTE again will return the LCD TV set to its previous condition
- Closed Caption may malfunction (white blocks, strange characters, etc.) if signal conditions are poor or if there are
- Indicate a problem with your LCD TV set If any button is pressed to call up the On-Screen Display while viewing a Closed Caption broadcast, the closed captions will disappear momentarily
- If no TEXT broadcast is being received while viewing in the TEXT mode, the screen may become blank for some programs
- Should this occur, switch the CLOSED CAPTION mode to OFF If you select "CC1", "CC2", "T1" or "T2" (or MUTE is pressed) while "VIEW MODE" is set to "ZOOM" or "STRETCH", then the mode for "VIEW MODE" will be automatically changed to "4:3" or "16:9"

5 Press MENU to exit.

#### **VIEW MODE**

You can select the picture display size for the playback image of the DVD player from the following four modes: "4:3". "16:9". "ZOOM" and "STRETCH"



- 1 Press MENU to display the Menu screen
- 2 Press **√**/▶ to select "OPTION"
- 3 Press ▲/♥ to select "VIEW MODE". and press ENTER
- 4 Press ▲/▼ to select desired setting, and press ENTER



Selected item	Description
4:3	Displays the image in a 4:3 size.
16:9	Stretches the image horizontally to display it in a 16:9 size.
ZOOM	Displays the center part of the image by enlarging it towards the horizontal and vertical directions.
STRETCH	Stretches the image horizontally



#### 5. Press MENU to exit.

NOTE>

- The 4:3 image will be distorted on the screen when the "VIEW MODE" is set to "16:9".
- When the CLOSED CAPTION mode is set to "CC1". 'CC2", 'T1" or "T2". 'ZOOM" and "STRETCH" cannot be set for "VIEW MODE"

### AUDIO ONLY

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



Setting the AUDIO ONLY on the Menu screen

- 1 Press MENU to display the Menu screen
- 2 Press **4/**▶ to select "OPTION"
- 3. Press ▲/▼ to select "AUDIO ONLY", and press ENTER
- 4 Press ▲/▼ to select "ON". and press ENTER

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Selected Item	Description					
ON	Audio is output without screen image.					
OFF	Both screen images and audio are output.					

#### Directly setting the AUDIO ONLY

Press AUDIO ONLY 'PRESS 'AUDIO ONLY" FOR 1 VIDEO OFF' is displayed on the screen.



- Press AUDIO ONLY again The screen image will 2 disappear
- 3 Press AUDIO ONLY again The screen image will be displayed again

# **Useful Features (Continued)**

#### **BLUE SCREEN**

This function automatically turns the screen blue if no broadcast signal is received.



- 1 Press MENU to display the Menu screen
- 2 Press 4/▶ to select "OPTION".
- 3 Press ▲/♥ to select "BLUE SCREEN". and press ENTER
- 4 Press ▲/▼ to select "ON", and press ENTER



5 Press MENU to exit

#### NOTE>

- When received signals are weak or interfered with by some other signals, the BLUE SCREEN function may be activated To watch the TV under such conditions, set "BLUE SCREEN" to "OFF" The BLUE SCREEN function is activated when INPUT mode is
- selected with no signal being input

#### SLEEP TIMER

You can set the SLEEP TIMER to automatically turn off the TV



Setting the SLEEP TIMER on the Menu screen

- Press MENU to display the Menu screen 1
- 2 Press 4/> to select "OPTION"
- Press ▲/▼ to select 'SLEEP TIMER", and press 3 ENTER
- 4 Press ▲/♥/◀/▶ to select "30MIN", "60MIN", "90MIN", "120MIN", "150MIN" or "OFF". and press ENTER.

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5 Press MENU to exit

NOTE>

- After you set the SLEEP TIMER. pressing POWER on the main unit or on the remote control will cancel the SLEEP TIMER setting
- 5 minutes before the SLEEP TIMER turns off the LCD TV, "5 MIN REMAINING" is displayed on the screen for 4 seconds The SLEEP TIMER counts down and shows a similar 4-second display for each remaining minute until the timer turns off the LCD TV sel

**Directly setting the SLEEP TIMER** 

Press SLEEP to display the SLEEP TIMER screen



2 Press SLEEP to set the sleep timer (in minutes)

→ [0FF]→	[30MIN]	[60MIN]
L [150MIN]	• · · · · •	
		(minutes)



· The SLEEP TIMER screen automatically disappears in 3 seconds

#### **NO SIGNAL OFF**

Power control setting allows you to save energy When set to "ENABLE", the power will automatically shut down if no signal inputs for 5 minutes



- 1 Press MENU to display the Menu screen
- 2 Press 4/≥ to select "OPTION"
- 3 Press ▲/▼ to select "NO SIGNAL OFF", and press ENTER
- 4 Press ▲/▼ to select "ENABLE". and press ENTER

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5 Press MENU to exit

NOTE>

- "DISABLE" is factory preset value
- This function can work only in TV mode
- If interfered with by other broadcast or radio waves. "NO SIGNAL OFF" may not work properly even when the broadcast is over

### **NO OPERATION OFF**

When set to "ENABLE", the power will automatically shut down if there is no operation for 3 hours.

- Press MENU to display the Menu screen.
- 2 Press 4/> to select "OPTION"
- 3. Press ▲/♥ to select "NO OPERATION OFF", and the press ENTER.
- 4 Press ▲/♥ to select "ENABLE", and press ENTER

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 5 minutes before the power shuts down, remaining time is displayed every minute

5 Press MENU to exit

NOTE - "DISABLE" is factory preset value

### **PICTURE FLIP**

You can set the orientation of the picture

Setting the PICTURE FLIP on the MENU screen



- Press MENU to display the Menu screen
- 2 Press **√** to select "OPTION"
- 4 Press ▲/▼ to select the desired mode, and press ENTER

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5 Press MENU to exit

**Directly setting the PICTURE FLIP** 

- 1 Press PIC.FLIP to display the PICTURE FLIP screen
- 2 Press PIC FLIP to change the setting

→ PICTURE FLIP [NORMAL] ------> PICTURE FLIP (MIRROR) ·

PICTURE FLIP (UPSIDE DOWN) ← PICTURE FLIP (ROTATE) ←



# **Connecting External Devices**

You can enjoy picture and sound by connecting a VCR or a home video game system to the terminals located on the rear of the main unit

When connecting an external device, turn off the POWER of the main unit first to prevent any possible damage

#### Example of External Devices that can be Connected



#### NOTE

- For the cable, use a commercially available audio/video cable
- PC connection is not possible For more information about external device connections, see the operation manuals of your external devices.
- Make sure that the corresponding cables are connected to each terminal. Connecting other cables may result in a malfunction
- INPUT2 has two terminals, VIDEO and S-VIDEO terminals. If your external device has an S-VIDEO terminal, S-VIDEO connection is recommended. S-VIDEO provides a finer, more detailed picture. If both terminals are connected, S-VIDEO terminal takes a priority
- Only when 4801 or 480P signal is received through the INPUT1, picture can be displayed

#### Outputting Video and Audio (Video Output)

You can output video and audio signals from the LCD TV set through the INPUT3/OUTPUT terminals. When using INPUT3/OUTPUT as an output terminal, select "SETUP" in the Menu and set "INPUT3 SELECT" to "OUT of FAO" or "OUT of FAO"

NOTE >

When using the S-VIDEO input for INPUT2 or COMPONENT input for INPUT1, no video signal will be made to the INPUT3/OUTPUT terminal, but audio signal wil be made for connection to external audio systems

# Troubleshooting

Before calling for repair services. make the following checks for possible remedies to the encountered symptoms

# LCD TV set

Probl	lem	Check item
Sound Picture	There is no picture or sound	<ul> <li>Make sure the AC cord is properly inserted in the power outlet</li> <li>Reception other than those of broadcasting stations can be considered</li> <li>Make sure the input mode is set to TV</li> <li>Make sure the POWER switch of the main unit is on</li> </ul>
Picture	There is no picture. There is no picture from INPUT1/2/3	<ul> <li>Make sure the BRIGHTNESS is properly adjusted.</li> <li>Fluorescent lamp may have reached the end of service life</li> <li>Make sure the S-VIDEO terminal has nothing connected</li> <li>Make sure the AUDIO ONLY is not set to ON.</li> </ul>
	There is no sound.	<ul> <li>Make sure the volume is not set to minimum</li> <li>Make sure the sound is not set to mute.</li> <li>Make sure that headphones are not connected</li> </ul>
	There is no picture or sound, just noise	<ul> <li>Make sure the antenna cable is properly connected.</li> <li>Bad reception could be the problem.</li> </ul>
	Picture is not clear	<ul> <li>Make sure the antenna cable is properly connected.</li> <li>Bad reception could be the problem</li> </ul>
	Picture is light or improperly tinted.	Check color adjustment.
	The picture is too dark.	<ul> <li>Press the BACKLIGHT button, or set the BACKLIGHT or BRIGHTNESS settings</li> <li>Check CONTRAST and BRIGHTNESS adjustment</li> <li>Fluorescent lamp may have reached the end of service life</li> </ul>
Remote control o	loes not work.	<ul> <li>Check the batteries of the remote control</li> <li>Make sure the remote sensor window is not under strong lighting</li> </ul>
Unit cannot be o	perated.	<ul> <li>External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after first turning the power off the LCD TV set, or unplugging the AC cord and re-plugging it in after 1 or 2 minutes.</li> </ul>

# **Troubleshooting (Continued)**

### Antenna

Problem	Check item
The picture is not sharp The picture moves.	<ul> <li>The reception may be weak</li> <li>The quality of the broadcast may also be bad.</li> <li>Make sure the antenna is facing the correct direction</li> <li>Make sure the outside antenna is connected.</li> </ul>
The picture is doubled or tripled	<ul> <li>Make sure the antenna is facing the correct direction.</li> <li>There may be reflected electric waves from mountains or buildings.</li> </ul>
The picture is spotted	<ul> <li>There may be interference from automobiles. trains, high-voltage lines, neon lights, etc.</li> <li>There may be interference between the antenna cable and AC cord. Try positioning them further apart.</li> </ul>
There are stripes on the screen or colors fade	<ul> <li>Is the unit receiving interference from other devices?</li> <li>Transmission antennas of radio broadcasting stations, transmission antennas of amateur radios and cellular phones may also cause interference</li> <li>Use the unit as far apart as possible from devices that may cause possible interference</li> </ul>

### Cautions regarding use in high and low temperature environments

When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal. Do not leave the unit in a hot or cold location Also, do not leave the unit in a location exposed to direct suntight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction. Storage temperature: -4 °F to +140°F (-20°C to +60°C)

# Specifications

Items	Model	LC-13SH6U	LC-15SH6U	LC-20SH6U					
LCD panel		13" Advanced Super View & BLACK TFT LCD	15" Advanced Super View & BLACK TFT LCD	20" Advanced Super View & BLACK TFT LCD					
Number of d	ois	921,600 dots VGA	······································	********					
Video color s	systems	N358		· · · · · · · · · · · · · · · · · · ·					
	TV Standard (CCIR) .	NTSC							
	TV Tuning System	PLL 181 ch.							
TV function STEREO		MTS+SAP							
	CATV	125 ch.							
Brightness		430 cd/m <sup>2</sup>							
Lamp life (Fluorescent lamp)		60,000 hours'							
Viewing angles		H: 170° V: 170°							
Audio amplif	ler	1.0 W × 2		809.446.446.446.466.466.469.469.466.466.46					
Speakers		113/20 × 41/3 in. (42 × 110 mm), 2	pcs	****					
	INPUT1	COMPONENT-IN, AUDIO-IN	**************************************						
Terminals INPUT2 Terminals INPUT3/OUTPUT Antenna Headphone		VIDEO-IN, S-VIDEO-IN, AUDIO-IN							
		VIDEO-IN, AUDIO-IN / VIDEO-OUT, AUDIO-OUT							
		F-Type							
		Mini-jack for stereo (ø3.5 mm)							
OSD languag	ge	English/Spanish/French							
Power supply	Y	AC 120V, 60Hz							
Power consu	mption	43 W (0.8 W standby): AC 120V	50 W (0.8 W standby): AC 120V	71 W (0.8 W standby): AC 120V					
10/a (	Display only	8.0 lbs./ 3.6 kg	9.1 lbs./ 4.1 kg	14.1 lbs./ 6.4 kg					
Weight	Display with stand	9.1 lbs./ 4.1 kg	10.2 lbs./ 4.6 kg	16.1 lbs./ 7.3 kg					
Operating ter	mperature	+32°F to +104°F (0°C to +40°C)	**************************************						

<sup>r</sup> Typical time for power output decrease of about one-half assuming continuous use in a room with normal lighting, normal brightness and temperature at 77°F/25°C

As a part of policy of continuous improvement. SHARP reserves the right to make design and specification changes for product improve-ment 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

# **Dimensional Drawings**

# LC-13SH6U / 15SH6U / 20SH6U

Unit: inch (mm)



# **Calling for Service**

For location of the nearest Sharp Authorized Service. or to obtain product literature, accessories. supplies, or customer assistance. please call 1-800-BE-SHARP

# 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 and amage. 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:	LC-13SH6U/LC-15SH6U/LC-20SH6U						
	(Be sure to have this information available when you need service for your Product )						
Warranty Period for this Product:	One (1) year parts and ninety (90) days labor from the date of purchase						
Additional Item(s) Excluded from Warranty Coverage (if any):							
Wallany Soverage (II ally).	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.						
<u>What to do to Obtain Service:</u>	Ship prepaid or carry in your Product to a Sharp Authorized Servicer. Be sure to have Proof of Purchase available If you ship the Product, be sure it is insured and packaged securely						

TO OBTAIN PRODUCT INFORMATION. CALL 1-800-BE-SHARP OR VISIT www.sharpusa.com



SHARP ELECTRONICS CORPORATION

Sharp Plaza, Mahwah, New Jersey 07430-2135

SHARP CORPORATION

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	LIMITED WAR	RANTY
Con	sumer Electron	ics Products
Congra	tulations on y	our purchase!
	r called "Sharp") gives the follow	ing express warranty to the first consumer purchaser for this buted in Canada by Sharp or by an Authorized Sharp Dealer:
Sharp warrants that this product is free, und defects should be found in this product with specified herein		, from any defects in material and workmanship. If any such d. Sharp shall, at its option, repair or replace the product as
This warranty shall not apply to: (a) Any defects caused or repairs required use as cullined in the owner's manual	as a result of abusive operation.	. negligence. accident. Improper installation or inappropriate
(b) Any Sharp product tampered with, modi or Sharp's Authorized Servicing Dealers	led. adjusted or repaired by any	party other than Sharp. Sharp's Authorized Service Centres
<ul> <li>(c) Damage caused or repairs required as a head cleaning tapes and chemical clean</li> </ul>		t specified or approved by Sharp. Including but not limited to
<ul> <li>(d) Any replacement of accessories, glassw not limited to earphones, remote control paper.</li> </ul>		ems required through normal use of the product including but erature probe, stylus, trays, filters, belts, ribbons, cables and
<ul> <li>(e) Any cosmetic damage to the surface or it</li> <li>(f) Any damage caused by external or environmentation of the spillage</li> </ul>		r caused by normal wear and tear. ut not limited to transmission line/power line voltage or liquid
<ul> <li>(g) Any product received without appropriate</li> <li>(h) Any products used for rental or comment</li> <li>(i) Any installation, setup and/or programming</li> </ul>	lal purposes	cUL markings
Should this Sharp product fail to operate dur together with proof of purchase and a cop Authorized Sharp Servicing Dealer In home screen size of 27" or larger and on any Sharp	y of this LIMITED WARRANTY warranty service may be provi	service may be obtained upon delivery of the Sharp product / statement to an Authorized Sharp Service Centre or an ided at Sharp's discretion on any Sharp television with the en
authorized to extend, enlarge or transfer thi liability for direct or indirect damages or loss detect in material or workmanship relating to of information. The purchaser will be respons detects, in the manner and period of time de	s warranty on behalf of Sharp es or for any incidental, special the product, including damages ible for any removal, reinstallatio escribed herein, constitute compl	no other dealer, service centre or their agent or employee is To the extent the law permits, Sharp disclaims any and all or consequential damages or loss of profils resulting from a for the loss of time or use of this Sharp product or the loss on, transportation and insurance costs incurred. Correction of lete fulfillment of all obligations and responsibilities of Sharp on of all claims, whether based on contract, negligence, strict
	Val. 4 a. 1	Parts & Labour (exceptions noted)
Audio Product Camcorder	3	1 year 1 year
DVD Products Projector	<b></b>	1 year 1 year (lamp 90 days)
LCD & Plasma Microwave Ov	en	1 year 1 year (magnetron component-4 additional years)
Television Pro VCR Products		1 year (picture tube component-1 additional year) 1 year
Vacuum Clear	er	1 year
		urp Service Centre or Dealer please contact: Road East Mississauga. Ontorio L4Z 1W9
	this Mounts Ober To	tonded Werenty
For more information on Offers, Sharp Canada Pro	ducts, Accessory Sales,	Dealer or Service SHARP
Locations, Visit our	please call (905) 568-71 Web site: www.sharp.ca	40 a 🚆 💏 👌
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