LC-13SH1E LC-15SH1E LC-20SH1E

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LCD COLOUR TELEVISION ENGLISH

OPERATION MANUAL

Contents

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Dear SHARP Customer2
Important Safety Precautions2
Supplied Accessories4
Preparation4
Installing Batteries in the Remote Control4
Using the Remote Control4
Power Connection5
Antenna Connection5
Listening with Headphones5
First Installation6
Part Names of the Main Unit7
How to Fix the Cables8
How to Prevent the LCD TV Set from Falling Over 8
Part Names of the Remote Control9
Basic Operation 10
Turning On and Off the Main Power 10
STANDBY/ON 10
Switching the Input Mode (EXT1/EXT2/TV) 10
Sound Volume

Useful Features	14
Picture Adjustments	14
Sound Adjustments	14
Sound Mode Settings	15
Programmes	16
Using the Programme Table	18
Rotate	18
EXT Connections	19
Clock Setup	20
Language	20
Teletext Language	20
Backlight	21
Sleep Timer	21
Auto Power Off	21
On-Screen Display	22
Child Lock	22
NICAM Broadcast Selection	24
A2 Stereo Broadcast Selection	24
Teletext	25
Connecting External Devices	27
Example of external devices that can be connected	27
Connecting to the EXT1/EXT2 Terminals	28
Troubleshooting	29
LCD TV set	29
Antenna	30
Specifications	30

ENGLISH

Dimensional Drawings

• The dimensional drawings for each model are shown on the inside back cover.

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Dear SHARP Customer

Thank you for your purchase of the SHARP LCD colour TV product. 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 colour TV product, please read the following precautions carefully before using the product.

- 1. Read instructions—All operating instructions must be read and understood before the product is operated.
- 2. Keep this manual in a safe place—These safety and operating instructions must be kept in a safe place for future reference.
- 3. Observe warnings—All warnings on the product and in the instructions must be observed closely.
- 4. Follow instructions—All operating instructions must be followed.
- 5. Attachments—Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
- 6. Power source—This product must operate on a power source specified on the specification label. If you are not sure of the type of power supply used in your home, consult your dealer or local power company.
- 7. 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.
- 8. Overloading—Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.
- 9. Entering of objects and liquids—Never insert an object into the product through vents or openings. High voltage flows in 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.
- 10. 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.
- 11. Repair—If any of the following conditions occurs, unplug the AC cord from the AC outlet, and request a qualified service 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.
 - d. 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.
 - e. When the product has been dropped or damaged.
 - f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
- 12. 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 unauthorised parts can result in fire, electric shock and/or other danger.
- 13. Safety checks—Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
- 14. 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 Precautions (Continued)



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Supplied Accessories

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



Preparation





Preparation (Continued)



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NOTE

• € (Input), P (∨)/(∧)(Channel), (-)/(+) (Volume) and MENU on the control panel of the main unit have the same functions as the same buttons on the remote control (see page 12). Fundamentally, this operation manual provides a description based on operation using the remote control.

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Part Names of the Main Unit (Continued)

Terminals



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Red, Picture Menu (P. 14, 25) ۲

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Basic Operation



To turn off the LCD TV

Press () | (Power).

The STANDBY/ON indicator will turn red.

To turn the LCD TV back on

Press () | (Power) again.The STANDBY/ON indicator will turn green.

 EXT2: Select this mode when viewing the signals from the video equipment connected to the EXT2 terminals using the VIDEO or S-VIDEO terminal for video input. If both VIDEO and S-VIDEO terminals are connected with cables, the S-VIDEO input terminal is selected as the high priority.

10 GB

LC-13_15_20SH1E_E_P10-14.p65 10



Basic Operation (Continued)



Press **d** (Mute) to temporarily turn off the sound. "Sound off" is displayed.

Sound off

Press 🗱 (Mute) again to turn off the Mute function. "Sound on" is displayed.

Sound on

NOTE>

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

Changing Channels

You can select channels using Channel Select or P (∧)/(∨) (Channel).



NOTE>

To handle the increasing number of channels available, this LCD TV set allows you to select up to 200 channels (0 to 199).

■ Using Channel Select

When selecting the channel using Channel Select, finish inputting the channel number by holding down the button for the last digit for a moment.

To select a one-digit channel (e.g. Channel 5)

• Hold down the 5 button.



To select a two/three-digit channel (e.g. Channel 15)

- 1 Press the 1 button.
- 2 Hold down the 5 button.



■ Using P (へ)/(∨) (Channel)

- Press P (A) to change the channels in the following order: $1 \rightarrow 2 \rightarrow 3 \rightarrow \ldots \rightarrow 198 \rightarrow 199 \rightarrow 0 \rightarrow 1 \rightarrow 2 \rightarrow 3 \rightarrow \ldots$
- Press P (v) to change the channels in the following order: $3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \rightarrow 199 \rightarrow 198 \rightarrow \ldots \rightarrow 3 \rightarrow 2 \rightarrow 1 \rightarrow \ldots$

NOTE>

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- · Channel "0" is reserved for RF output of VCR.
- Channels not set with "Automatic search" or via "Setup" are set to be skipped and therefore cannot be displayed using P (\wedge)/(\checkmark) (Channel).

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■ Using 😅 (Flashback)

- Press S to switch the currently tuned channel to the previously tuned channel.
- Press S again to switch back to the currently tuned channel.

GB 11

Basic Operation (Continued)

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 next page for each Menu screen.

NOTE

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- · Settings most recently adjusted will be saved in memory.
- Using the remote control



- **1** Press **MENU** to display the Menu screen.
- Press
 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 some items (e.g. "Programmes" on the "Setup" Menu screen), press OK to display the setting screen.

screen), press OK to display the setting screen.
Picture Sound Setup Features

С	0	n	t	r	а	S	t			[5	0	1	+++
В	r	1	g	h	t	n	е	s	s	[0	1	+
С	0	П	0	u	r					Ī		0	1	+
Т	i	n	t							Ī		0	ī	
S	h	а	r	р	n	e	s	S		Ī		0	П	+ ,
R	е	s	e	Ť.										

4 Press **MENU** to return to the previous screen or **END** to return to the normal screen.

■ Using the control panel of the main unit



Press MENU to return to the previous screen.
Each time MENU is pressed, you will return to the screen previously shown.



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Basic Operation (Continued)

Menu setting screens

For details on setting each menu item, refer to the page number indicated below.

NOTE

· The illustrations and on-screen displays in this manual are for explanation purposes and may vary slightly from the actual

"Programmes" or "First installation" cannot be set when the EXT1 or EXT2 mode is selected as an input mode.

Picture

	М	θ	n	u	[Ρ	i	C	t	u	r	θ	1																		
Ρ	i	С	t	u	r	θ		S	0	u	n	d		s	Θ	t	u	р		F	θ	а	t	u	ľ	6	•	s			
С	0	n	t	ſ	a	S	t				[5	0	1			=		=		=	i.	=	• +						
						n	θ	S	S		[0	1			=	=			=	=	=	• +						
С	0		0	u							[0	1			_				=	=	=	• +						
		n									[0	1	L		_				=	=	=	2	L					
s					n	θ	8	8			I			0	1										+						
R	θ	S	θ	t																											
CF-	D	:	s	Ð	n	θ	С	t		ME	NUİ	8	В	а	С	k		EN	D	÷	Е	х	n	t							
	_		_						_			_	_	_		_	_		-	_	_	_	_		_	_	_	_	_	_	_
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	гауе
Contrast	14
Brightness	14
Colour	
Tint	
Sharpness	
Reset	14

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

Sound



	Page
Sound via	15
Treble	14
Bass	14
Balance	14
Loudsp. sound	15
AV audio sig	
Sound wide	
Reset	14

Setup

M				I		3	θ			р	1																				
Ρi	С	t	u	r	e			s	0	ù	n	d	s	θ	t	u	р		Е	e	а	t	U	r	θ	s					
													Ρ	r	0	g	r	a	m	m	θ	8									
													F		r	s	t			n	s	t	а			a	t		0	n	
													R	0	t	а	t	θ													
													Е	Х	Т		С	0	n	n	θ	С	t		0	n	s				
													С		0	С	k		s	θ	t	u	р								
													L	а	n	g	u	а	g	θ											
													Т	θ		8	t	θ	x	t			a	n	g	u	а	g	θ		

Menu[Features] Picture Sound Setup Features

	Page
Programmes	. 16, 17
First installation	6
Rotate	18
EXT connections	19
Clock setup	20
Language	20
Teletext language	20

Features

	Page
Backlight	
Sleep timer	
Auto power off	
On screen disp	
Child lock	

Page

Useful Features

Picture Adjustments

Adjust the picture to suit your preference. See the table below for the adjustment items.



- Press MENU to display the Menu screen. The Picture Menu screen can be displayed directly by pressing the Red button.
- 2 Press **√** to select "Picture".

3 Press $\blacktriangle/\blacksquare$ to select a specific adjustment item.

Ρ	i	С	t	u	r	е		S	0	u	n	d		S	е	t	u	р	F	е	а	t	u	r	e	s
С	0	n	t	r	a	S	t				[5	0	1					-	-	÷		+		
В	r	i.	g	h	t	n	θ	S	s		Ī			0	ī							=		+		
С	0		ō	u	r						Ī			0	ī							-		+		
Т	i.	n	t								Ī			0	ī	E						-				
S	h	а	r	р	n	е	s	s			Ī			0	Ĵ.							-		+		
R	θ	s	θ	t																						

4 Press **√** to adjust the item to your desired position.

5 Press END to exit.

Selected item	button	▶ button
Contrast	For less contrast	For more contrast
Brightness	For less brightness	For more brightness
Colour	For less colour intensity	For more colour intensity
Tint	Skin tones become purplish.	Skin tones become greenish.
Sharpness	For less sharpness	For more sharpness

NOTE>

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When resetting all adjustment items to factory preset values,

perform the following procedure.
① Press ▲/▼ to select "Reset", and press OK.
② Press ▲/▼ to select "Yes", and press OK.

Sound Adjustments

Adjust the sound quality and volume to suit your preference. See the table below for the adjustment items.



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

s o id

5 Press END to exit.

Selected item	button	▶ button					
Treble*	For weaker treble	For stronger treble					
Bass*	For weaker bass	For stronger bass					
Balance*	Increase the volume of the speaker on the left side.						

* These items cannot be adjusted when "Sound via" is set to "Hi-fi".

NOTE>

When resetting all adjustment items to factory preset values, perform the following procedure.

- - Press ▲/▼ to select "Reset", and press OK.

(2) Press \blacktriangle/ ∇ to select "Yes", and press **OK**.

14 GB

Sound Mode Settings

You can make various sound mode settings.



Selected item	Choice
Sound via	TV ↔ Hi-fi
Loudsp. sound	Stereo ↔ Mono
	Sound 1 \leftrightarrow Sound 2 \leftrightarrow Sound 1+2 \leftrightarrow Mono
AV audio sig.	Sound 1 \leftrightarrow Sound 2 \leftrightarrow Sound 1+2
Sound wide	On (For increasing the spread of the sound) \longleftrightarrow Off

NOTE>

- For the "Sound via" setting
 When setting "Sound via" to "Hi-fi" in the Sound Menu screen, the sound from the built-in speakers will be turned off. To exit this mode, switch "Sound via" from "Hi-fi" to "TV" in the Sound Menu screen.
- Pressing (+)/(-) will display the volume indicator shown below. You can adjust the volume by pressing (+)/(-).

Hi-fi Volume 20

For the "Loudsp. sound" setting
The sound output modes differ depending on whether or not a NICAM or A2 stereo signal is received. See page 24.

For the "AV audio sig." setting
Select "Sound 1" or "Sound 2" when playing back the video from mono-video recorders and "Sound 1+2" when playing back from setting back from s stereo-video recorders.



- Press \blacktriangle/V to select "Store prog. from", and press **OK** 6 to display the "Store prog. from" screen.

	•	0 2 3 4 5 6 7	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	6 8 1 0 1 1 3 5 6	8 9 10 11 12 13 14 15	E E E E E E E E E	9 10 11 36 37 38 50 53	1 6 1 7 1 8 1 9 2 0 2 1 2 2 2 3	E - E - E -	54 56 57	
7	which	the	e pro	gramr	nes ar	e to	progra be stor ch set	red, an	id pr	ess Ol	
		0 1 2 3 4 5 6 7	о с с с с с с с с с с с с с с с с с с с	6 8 10 11 3 5 6	8 9 10 11 12 13 14 15		9 10 11 36 37 38 50 53	16 17 18 20 21 22 23	E - E - E -	54 56 57	

NOTE

· See page 6 for details on the search process.

- Press \blacktriangle/Ψ to select "Start search", and press \mathbf{OK} to
 - "Search is completed" is displayed, and press END to
- Individual settings of programmes can be adjusted.



- Perform steps 1 to 3 in [1] Automatic Search to display the "Programmes" screen.
- Press \blacktriangle/∇ to select "Manual adjustment", and press
- Press \blacktriangle/∇ to select the desired item, and press $\checkmark/\triangleright$

С	h	а	n	n	θ								◄	1	9	9							►
F	r	Θ	q	u	θ	n	С	У						2	2	4		2	5	М	н	z	
Ν	a	m	8											Е			1	2					
С	0		0	u	r		S	У	8	t	θ	m		Ρ	А	L							
S	0	u	n	d		s	v	s	t	θ	m			п									
S														0	f	f							

4 Press END to exit.

Selected item	Choice/Value range	Description					
Channel	0–199	The channel changes to the higher or lower channel.					
Frequency	044 – 859 (MHz)	Receivable frequencies depending on TV norm, installation site, and range.					
Name	Alphabets, numerical values and symbols (e.g. !, t, etc.)	Programme name (up to 5 characters).					
Colour system	Auto, PAL, SECAM	Colour norm					
Sound system	B/G, I, D/K, L/L', Auto	TV norm					
Skip	On ↔ Off	Channel numbers with a "(♦) (RED)" mark on the left are set to Skip.					

NOTE>

· Depending on the settings in the colour system of the channels, switching between channels may be slow. If you want to speed up channel switching, switch "Auto" in "Colour system" to the current reception system (PAL or SECAM).

16 GB





[3] Sort The programme positions for individual programmes can be changed freely.





Using the Programme Table

The Programme table shows a list of all receivable programmes. They are located in channels 0 to 199.



To select the desired programme

- **1** Press **OK** to display the Programme table.
- 2 Press ▲/▼/◀/▶ to select the desired programme.
 To display the next or previous list of the Programme table, press ▲/▼ when the cursor is at a programme in the lower-right or upper-left position, or press ◀/▶ when the cursor is at a programme in the right or left column.

	0			8	Е-	9	16	E- 54	
	1	S -	6	9	Ε-	10	17 1	E- 56	
	2	S -	8	10	Е-	11	18 1	E- 57	
	3	S -	10	11	Е-	36	19		
	4	S -	11	12	Ε-	37	20		
	5	Ε-	3	13	Е-	38	21		
	6	Ε-	5	14	Ε-	50	22		
	7	Ε-	6	15	Е-	53	23		

3 Press **OK** to display the selected programme.

4 Press END to exit.

Rotate

You can set the orientation of the picture.



- 2 Press **√** to select "Setup".
- **3** Press \blacktriangle / \bigtriangledown to select "Rotate", and press **OK**.

4 Press \blacktriangle/ ∇ to select the desired mode, and press **OK**.

N	0	r	m	a	Τ									
						-	-	-	-	-	-			
M	1	r	r	0	r	-			-	-	-			
R	0	t	a	t	θ		-	-						
U	р	s	I	d	θ		d	0	w	n				

5 Press END to exit.

Directly setting the Rotate

Press **ROTATE** to select the desired mode.Each time you press **ROTATE**, the mode changes as follows.



NOTE>

^{• &}quot;Rotate" is set to "Normal" at the factory setting.



18 GB

LC-13_15_20SH1E_E_P15-18.p65 18

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EXT Connections

It is possible to manually adjust various settings for connections with external devices on the "EXT connections" screen.

EXT1/EXT2

1

Select the appropriate signal type and colour standard for the signals from the video equipment connected to the EXT1 or EXT2 terminal.



Perform steps 1 and 2 in Rotate to display the Setup Menu screen.

- **2** Press \blacktriangle / \bigtriangledown to select "EXT connections", and press **OK**.
- Press $\blacktriangle/ \mathbf{\nabla}$ to select "EXT1", "EXT2 (Y/C)", or "EXT2 (CVBS)", and press **OK**. 3

EXT1 E X T 2 (Y / C) E X T 2 (C V B S)

4 Press \blacktriangle/∇ to select the desired item, and press $\checkmark/\triangleright$ to make the setting. (See the table below for details.)

S	L	g	n	а	Т	t	У	р	θ			•	С	۷	В	S		►	
Α	F	C											М	0	d	θ	1		
С	0		0	u	r	s	v	s	t	θ	m		Α	u	t	0			

5 Press END to exit.

Selected item	Choice	Description
Signal type*	Auto, CVBS, RGB	To select the signal type of external equipment.
AFC	Mode 1, Mode 2	To select frequency control modes. Mode 1 is suitable for DVD players or decoders, and Mode 2 is suitable for VCRs or Camcorders.
Colour system	Auto, PAL, SECAM, N358 (NTSC 3.58), N443 (NTSC 4.43), PAL-M, PAL-N, PAL60	Colour norm

* This item is visible only when "EXT1" is selected for the "EXT connections" setting.

NOTE

- NOTE >
 If no (colour) image is displayed, try to change to a different signal type.
 Depending on the compatibility with the various types of equipment, the picture may become skewed. In this case, select the "AFC" (Automatic Frequency Control) mode that will improve the picture.
 Switching between AV input signals may be slow, depending on the settings in "Colour system". If you want to speed up signal switching, select "Auto" in "Colour system" to the current reception colour system.

Clock Setup

4

NOTE>

when available.

5 Press **END** to exit.

The Sleep timer that turns power off at the specified time does not work unless the clock has been adjusted. Be sure to adjust the clock first.



The time is automatically set/corrected via the Teletext broadcast

Language

The language for the on-screen display can be selected from English, Spanish, German, French, Italian, Swedish, Dutch, Russian, Portuguese, Turkish, Greek, Finnish and Polish.

- 1 Perform steps 1 and 2 in Clock Setup to display the Setup Menu screen.
- **2** Press $\blacktriangle/ \bigtriangledown$ to select "Language", and press **OK**.
- Press A/V/4/b to select the desired language, and press **OK**. 3

English	Russian
Español	Português
Deutsch	Türkçe
Français	Greek
Italiano	Suomi
Svenska	Polski
Nederlands	

4 Press END to exit.

Teletext Language

The language for the Teletext can be selected.



4 Press END to exit.

Cyrillic

20 GB

Backlight

You can make the setting for the brightness of the screen.



- 2 Press **√** to select "Features".
- **3** Press \blacktriangle/ ∇ to select "Backlight", and press **OK**.
- **4** Press \blacktriangle/ ∇ to select the desired mode, and press **OK**.
- 5 Press END to exit.

Selected item	Factory setting		Choice
Backlight*	[Bright] Maximum brightness	[Medium]	Suitable for viewing in well-lit areas. Saves energy.
		[Dark]	Sufficiently bright when viewing in dim areas.
		[Auto (OPC)]	Screen brightness is adjusted according to the ambient light of the room.

* The Backlight setting can be switched with one touch using the remote control (see below).

Directly setting the Backlight

You can change the setting of Backlight directly.

Press BACKLIGHT to select the desired mode.

• Each time you press **BACKLIGHT**, the mode changes as follows.



NOTE

• See the table above for details of the each brightness setting.

21

 When set to "Auto (OPC)", make sure that no object obstructs the OPC sensor, which could affect its ability to sense surrounding light.

Sleep Timer

You can set "Sleep timer" to automatically turn off the LCD TV set.



- **1** Perform steps **1** and **2** in **Backlight** to display the Features Menu screen.
- **2** Press \blacktriangle/ ∇ to select "Sleep timer", and press **OK**.
- **3** Press **Channel Select** or $\blacktriangle/\triangledown$ to select the time, and press $\checkmark/\triangleright$. Press \bigstar/\triangledown to set "On".

HH:MM On	
	Current Time

4 Press END to exit.

Selected item	Input value/Choice	Description
		The LCD TV set automatically turns off.

NOTE>

- Be sure to adjust the clock with "Clock setup" in the Setup Menu before setting "Sleep timer".
- The time is automatically set/corrected via the Teletext broadcast when available.
- When not using the LCD TV set for a long period of time, turn off the main power.

Auto Power Off

On Off

4 Press END to exit.

· "Off" is factory preset value.

NOTE

You can set the power to automatically turn off if there is no signal for 5 minutes.

- 1 Perform steps 1 and 2 in **Backlight** to display the Features Menu screen.
- **2** Press \blacktriangle/∇ to select "Auto power off", and press **OK**.
- **3** Press \blacktriangle/ ∇ to select "On", and press **OK**.

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On-Screen Display

You can adjust various settings for on-screen displays.



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Position	Bottom ←→ Top	To select the position of the on- screen display.
Sound info.	No ↔ Yes	To select whether or not sound info is to be displayed, when a channel has been selected.
Time	No ↔ Yes	To select information to be
Sleep time	No \leftrightarrow Yes	displayed on the on-screen display.

NOTE>

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The status display appears by pressing the Blue button.

Child Lock

Important:

 Please refer to page 31 for "IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK".

The Child lock function blocks the viewing of any channels. To use this function, you need to define your PIN (Personal Identification Number) first.

[1] Defining a PIN



- **1** Press **MENU** to display the Menu screen.
- **2** Press **√** to select "Features".

Press \blacktriangle/V to select "Child lock", and press **OK** to display the PIN input screen.

4 Input the desired four-digit PIN (e.g. 1234) with Channel Select, and press OK.

Please define your PIN <mark>1234</mark>

NOTE

3

- Be sure to make a note of your PIN before pressing **OK**. The PIN will not be set if **MENU** or **END** is pressed before the fourth digit has been input.
- **5** Press **OK** to accept the input PIN.

[2] Setting a Child Lock

- There are two different ways of activating a Child lock:
 1. General child lock for all programmes immediately
 2. Programme-position-related child lock without time
- limit

To set a Child Lock for all programmes with a time limit

1 Perform steps **1** to **3** in **[1] Defining a PIN** to display the PIN input screen.

2 Input your four-digit PIN (e.g. 1234) with Channel Select.

Piease input your PIN ????

 When the PIN is correctly input, the "Child lock" screen is displayed.

22 GB

LC-13_15_20SH1E_E_P19-24.p65 22

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When the PIN input screen is displayed, input your PIN with **Channel Select**.

• The normal screen appears when the PIN is correctly input.



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NICAM Broadcast Selection

This enables the selection of the reception mode when receiving a NICAM-I or NICAM-B/G signal. To let you enjoy NICAM broadcasting, this LCD TV set receives NICAM stereo system and bilingual broadcasts.



Stereo

- The LCD TV set is receiving a stereo broadcast.
- Each time you press [♥]/[™] (Sound), the mode changes between "Stereo" and "Mono".
- When "Mono" is selected, the TV sound is output monaurally.



Bilingual

- The LCD TV set is receiving a bilingual broadcast.
- Each time you press $\sqrt[\nabla]{D}_{I/II/I+II}$ (Sound), the mode changes as follows:



NOTE>

 If the button is not pressed for a few seconds, the mode setting is automatically terminated and the LCD TV set returns to the normal mode.

A2 Stereo Broadcast Selection

This enables the selection of the reception mode when receiving an A2 stereo signal. To let you enjoy A2 stereo broadcasting, this LCD TV set receives A2 stereo system and bilingual broadcasts.



Stereo

- The LCD TV set is receiving a stereo broadcast.
- Each time you press ^{VOD}_{I/II/I+I} (Sound), the mode changes between "Stereo" and "Mono".
- When "Mono" is selected, the TV sound is output monaurally.



Bilingual

The LCD TV set is receiving a bilingual broadcast. • Each time you press $V_{I/I/I+I}^{(N)}$ (Sound), the mode changes as

follows:



NOTE>

 If the button is not pressed for a few seconds, the mode setting is automatically terminated and the LCD TV set returns to normal mode.

Teletext

■ What is Teletext?

Teletext is an information service organised like a magazine, which is provided by some TV stations in addition to regular television broadcasting. Your LCD TV set receives special Teletext signals broadcast by a TV station, processes the information and displays it graphically on the screen. News, weather and sports information, stock exchange prices, programme reviews and closed captioning for people hard of hearing are among the many services available through Teletext.

Teletext mode

Teletext is activated with ((Teletext) on the remote control and is also closed with it. The LCD TV set can be controlled in Teletext mode directly by inputting commands with the remote control and indirectly through the on-screen display (menu system).



Operating instructions in Teletext mode

- The FLOF system for Teletext is transmitted in the UK currently.
- The TOP system for Teletext is transmitted in Germany currently.

 If TOP Teletext is broadcast, a control line and TOP line can be displayed on the screen. The TOP line involves the operating instructions associated with all of the **Coloured** buttons if TOP text is transmitted.

[1] Turning on and off Teletext mode



- **1** Select a TV channel that is broadcasting the Teletext programme.
- Press (Teletext) to display Teletext screen.
 To turn off the Teletext mode, press (Teletext) again.



NOTE

For selecting the language for the Teletext screen, see "Teletext Language" on page 20.

[2] Using the TOP line

When TOP Teletext is being broadcast, you can display the TOP line, which contains the operating instructions on the screen.



Press the Coloured buttons to operate the Teletext screen.

• Press **Red** to display the previous page and **Green** to display the next page. **Yellow** and **Blue** are as indicated on the TOP line.

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Teletext (Continued)

- [3] Changing subpages
 - If a page has been selected from among several subpages, you can display a control line which contains the subpage numbers.

1	Press 🗐 (Subpage).
	S TELETEXT

- 2 Press Channel Select to select the desired subpage number.
- **3** Press **(Subpage)** to turn off the control line.

[4] Useful Features for Teletext

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- $\bullet \ensuremath{\textcircled{\ensuremath{\mathbb H}}}$ (Hold) on the remote control can be used to hold the current teletext page. Press the button again to cancel the Hold mode.
- \blacktriangle/∇ can be used to zoom the current Teletext page as
 - shown below. The screen is displayed in each mode each time \blacktriangle/∇ is pressed.



- (Subtitle) can be used to quickly activate subtitles. Press (Teletext) to deactivate subtitles.
- (Reveal) can be used to display hidden information such as solutions to riddles and puzzles. Press the button again to hide the information.

26 GB

Connecting External Devices

You can enjoy picture and sound by connecting devices, such as a VCR or home video game system, to the terminals located on the rear of the LCD TV set. When connecting an external device, turn off the power of the LCD TV set 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.
 Only connect audio/video signals to EXT1 and 2 terminals. Connecting other signals may result in a malfunction.
 The VIDEO input terminal and the S-VIDEO input terminal on the EXT2 are shared connections with priority given to the S-VIDEO terminal. If both terminals are connected, the video signals from the S-VIDEO input terminal are selected for the EXT2 input. When viewing video from the VIDEO input terminal, do not connect anything to the S-VIDEO input terminal.
- · For more information about external device connections, see the operation manuals of your external devices.

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Connecting External Devices (Continued)



NOTE

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If your VCR (or other external devices) has an S-Video terminal, S-VIDEO connection is recommended. (Use an S-Video cable.)
When you connect external devices to both S-VIDEO and VIDEO terminals (and if you select EXT2), you can only view pictures from the S-VIDEO terminal.

You cannot view multiple or synthesised pictures by connecting two or more external devices. When connecting an external device, make sure to connect the video and audio cables to the corresponding terminals.



Troubleshooting

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

LCD TV set

Problem	Check item	Reference page	
Sound Picture There is no picture or sou	 Reception other than that of broadcasting stations could be the problem. Make sure the input mode is set to TV. Make sure the main power switch of the LCD TV set is on. 	- 10 10	
Picture Picture There is no picture. There is no picture from EXT2.	 Make sure the Picture adjustment is properly adjusted. The fluorescent lamp may have reached the end of its service life. Make sure the S-VIDEO terminal has nothing connected. 	14 – 8, 28	
There is no sound.	 Make sure the volume is not set to minimum. Make sure the sound is not set to mute. 	11 11	
There is no picture or so just noise.	 Make sure the antenna cable is properly connected. Bad reception could be the problem. 	5 –	
The picture is not clear.	Make sure the antenna cable is properly connected. Bad reception could be the problem. s	5 _	
The picture is too light or improperly tinted.	Check the colour adjustment. s	14	
The picture is too dark.	 Check if "Backlight" is set to "Dark". Check "Contrast". The fluorescent lamp may have reached the end of its service life. 	21 14 -	
Remote control does not work.	 Check if batteries in the remote control have sufficient power. Make sure the remote sensor window is not under strong lighting. 	4 4	
Unit cannot be operated.	• External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the unit after turning the power off, or unplugging the AC cord and replugging it in 1 or 2 minutes.	_	

■ 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 sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
 (Storage temperature: -20°C to +60°C (-4°F to +140°F))

Troubleshooting (Continued)

Antenna

Problem	Check item
The picture is not sharp. The picture shakes.	 The reception may be weak. The quality of the broadcast may also be bad. Make sure the antenna is facing the correct direction. Make sure the outside antenna has not been disconnected.
The picture has ghosts.	 Make sure the antenna is facing the correct direction. Broadcast waves may be reflected from adjacent mountains or buildings.
The picture is spotted.	 There may be interference from automobiles, trains, high-voltage lines, neon lights, etc. There may be interference between the antenna cable and power cable. Try positioning them further apart.
There are stripes on the screen or colours fade.	 Is the unit receiving interference from other devices? Transmission antennas of radio broadcasting stations and transmission antennas of amateur radios and mobile phones may also cause interference. Use the unit as far apart as possible from devices that may cause possible interference.

Specifications

Items		LC-13SH1E	LC-15SH1E	LC-20SH1E		
LCD panel		13" Advanced Super View	15" Advanced Super View 20" Advanced Super			
		& BLACK TFT LCD	& BLACK TFT LCD	& BLACK TFT LCD		
Number of o	dots	921,600 dots				
Video colou	r system	PAL/SECAM/NTSC				
TV	TV-Standard (CCIR)	B/G, I, D/K, L/L'				
	TV-Tuning System	Auto preset 200 ch.				
	STEREO/BILINGUAL	NICAM, A2 stereo				
	AUTO PRESET	YES				
	CATV	~Hyper Band				
Brightness		430 cd/m ²				
Lamp life		60,000 hours*				
Viewing angles		H: 170° V: 170°				
Audio ampli	fier	2.1 W × 2				
Speakers		7.5 cm × 3 cm 2 pcs.	11 cm × 4 cm 2 pcs.			
Terminals	EXT1	21-pin Euro-SCART				
	EXT2	S-VIDEO, VIDEO, AUDIO				
	OUT	AUDIO				
	Antenna	DIN				
	Headphones	3.5 mm ø jack (side)				
OSD language		English/Spanish/German/French/Italian/Swedish/Dutch/Russian/Portuguese/ Turkish/Greek/Finnish/Polish				
Power requirement		AC 220 V–240 V, 50/60 Hz				
Power cons	umption	55 W (1.0 W Standby)	59 W (1.0 W Standby)	74 W (1.0 W Standby)		
		AC 220 V–240 V	AC 220 V–240 V	AC 220 V–240 V		
Weight (approx.)		3.5 kg, w/o accessories	4.1 kg, w/o accessories	6.3 kg, w/o accessories		

* The typical period of time after which the lamp's power output will have decreased by about half, given that the LCD TV set is used continu-ously in a 25°C/77°F room under standard lighting and brightness conditions.

Dimensional Drawings • The dimensional drawings for each model are shown on the inside back cover.

As a part of policy of continuous improvement, SHARP reserves the right to make design and specification changes for the LCD TV set 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.

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Information for Customers on environmentally friendly disposal of this SHARP product

If this product cannot be used any more, it should be disposed of in a legally correct and environmentally sound way.

DO NOT DISPOSE OF THIS PRODUCT WITH YOUR HOUSEHOLD WASTE OR MIXED WITH OTHER WASTES! YOU MIGHT ENDANGER THE ENVIRONMENT!

Sharp Corporation is committed to protecting the environment and conserving energy. Our goal is to minimize the environmental impact of our products by continually implementing and improving product technologies, designs, and customer information aimed at environmental conservation.

(1) For our customers in Belgium, The Netherlands, Sweden, and Switzerland

SHARP takes part in the respective national recycling systems for electronic equipment, which have been founded on the basis of the environmental laws in these countries.

Please see here details on the respective countries.

Country	Recycling Information for that Country		
Sweden	Please use the Swedish electronics recycling system called "ELRETUR", and see the website at http://www.el-kretsen.se		
The Netherlands	Please use the Dutch electronics recycling system called "ICT-Milieu", and see the website at http://www.nederlandict.nl/index.php		
Belgium	Please use the Belgian electronics recycling system called "Recupel", and see the website at http://www.recupel.be		
Switzerland	Please use the Swiss electronics recycling system called "SWICO", and see the website at http://www.swico.ch		

(2) For our customers in United Kingdom, Germany, France, and Italy

Please contact your local authorities for collection and recycling facilities, or contact a recycling service company, which is licensed for the recycling of electronic equipment.

IMPORTANT NOTE ON DISENGAGING ADVANCED CHILD LOCK

We suggest that you remove the following instruction from the operation manual to prevent children from reading it. As this operation manual is multilingual, we also suggest the same with each language. Keep it in a safe space for future reference. If you have forgotten your personal code number and cannot disengage ADVANCED CHILD LOCK, follow the procedure below. 1. Press **MENU** to display the Menu screen.

- Press
 to select "Features".
 Press ▲/▼ to select "Child lock", and press OK.
- The PIN input menu is displayed.
 Input "3001" with Channel Select.
- The Child lock setting menu is displayed.
- ADVANCED CHILD LOCK will now be disengaged.

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