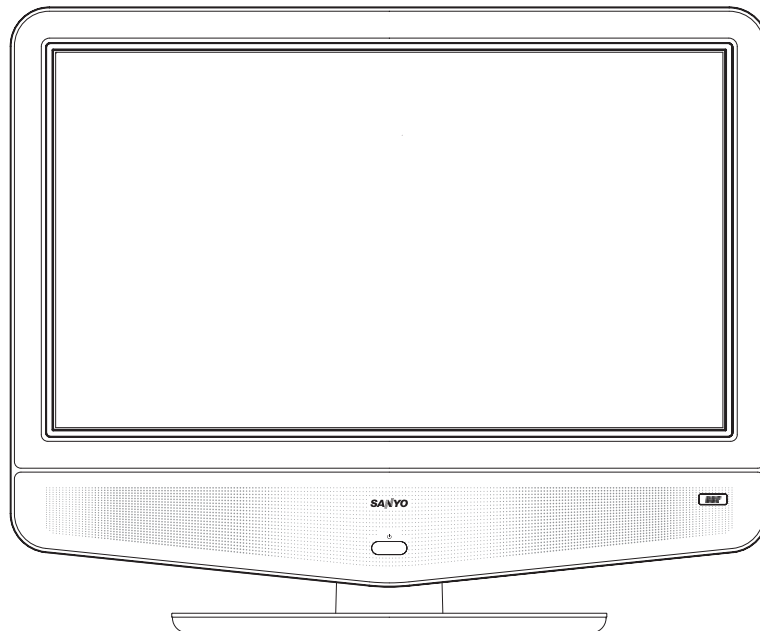




INSTRUCTION MANUAL

Colour Television

CE17LC4-B
CE17LC4BK-B
CE17LC4W-B
CE23LC4-B
CE23LC4BK-B
CE23LC4W-B



Specification

Common specification

Power source	AC 110~120V, 220~240V 50Hz
Television system	System I
Colour system	PAL (PAL/NTSC3.58 in AV mode)
Channel coverage	UHF: 21-69,
Aerial input impedance	75 ohm
AV terminal	
AV1: CENELEC Standard	
Input: Composite video, RGB and audio-L/R	
Output: TV-output with composite video and audio-L/R	
AV2: CENELEC Standard	
Input: Composite video, RGB, S-VHS and audio-L/R	
Output: Monitor-output with composite video and audio-L/R	

Side AV terminal

AV3: RCA jacks
 Input: Composite video and audio-L/R

Headphone socket Mini Jack

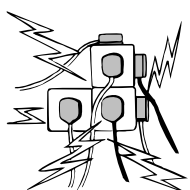
	CE17LC4-B CE17LC4BK-B CE17LC4W-B	CE23LC4-B CE23LC4BK-B CE23LC4W-B
Sound output (Continuous)	2 x 2W	2 x 5W
Contrast Ratio	600:1	800:1
Screen(inches) (viewing measured diagonally)	17	23
Display Resolution	1280 x 768 (WXGA)	1280 X 720 (WXGA)
Viewing angles	H:176°, V:176°	H:176°, V:176°
Dimensions (WxHxDmm) (including stand)	452 x 409 x 237	580 x 480 x 257
Weight (kg)	6.5	8.4

Please read this Instruction book before using your television.
We wish you many hours of pleasure from your new television.

SAFETY PRECAUTIONS / SERVICING

CAUTION: Please read and retain for your safety. This unit has been engineered and manufactured to assure your personal safety, but improper use can result in potential electric shock or fire hazards. In order not to defeat the safeguards incorporated in this receiver observe the following basic rules for its installation, use and servicing.

Installation



Do not allow anything to rest on the power cord. **Do not** locate this television receiver where the cord will be damaged by people walking on it.

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

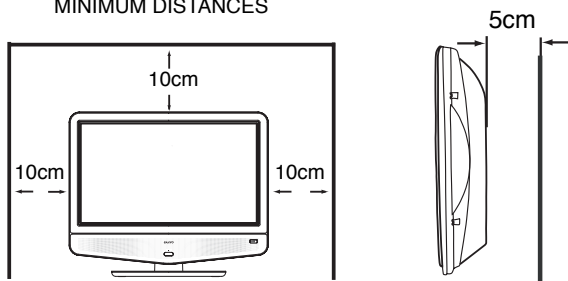
Slots and openings in the cabinet and in the back or bottom are provided for ventilation to ensure reliable operation and to protect it from overheating. These openings **must not** be blocked or covered. The opening **should never** be covered with a cloth or other material, and the bottom openings **should not** be blocked by placing the television receiver on a bed, sofa, rug, or other similar surface.

Do not place this television near any heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

Do not place the television in direct sunlight.

Do not place your television receiver on an unstable stand, shelf or table. Serious injury to an individual, and damage to the television may result if it should fall. Your sales person can recommend approved stands or shelf and wall mounting instructions. A special wall mounting kit is available for this model.

MINIMUM DISTANCES



If the television is built into a unit, or enclosed, the minimum distances for ventilation must be maintained. Heat build up can reduce the life of your television, and can be dangerous.

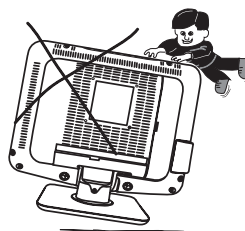
Use

This television receiver should be operated only from the type of power source indicated on the television or as indicated in the Operating Instructions. If you are not sure of the type of power supply in your home, consult your sales person or your local power company.

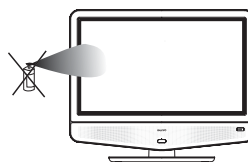
Never add accessories that have not been specifically designed for this television.

Do not drop or push objects into the television cabinet slots or openings. Some internal parts carry hazardous voltages and contact may result in an electric shock hazard. **Never** spill liquids of any kind on the television receiver. **Do not** place items such as vases containing liquid on top of the TV set.

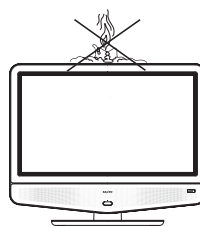
Do not expose the television receiver to rain or use near water. For example, near a bathtub, kitchen sink, in a wet basement, etc. **Do not** use immediately after moving the television from a low temperature to a high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards. Before cleaning, unplug the television receiver from the wall socket.



Never stand on, lean on or push the television or its stand. **Never** allow children to play with the television or its stand. Serious injury may result if it should fall.



Do not apply liquid cleaners or aerosol cleaners directly onto the television receiver. Use a soft cloth for cleaning.



Do not place candles or hot objects upon the TV, next to it or behind it. Open flames must never be used near the TV set.

Important recycling information.



Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste.

Please dispose of this equipment at your local community waste collection/recycling centre.

In the European Union there are separate collection systems for used electrical and electronic products.

Please help us to conserve the environment we live in!

Note: This symbol mark and recycle system are applied only to EU countries are not applied to other countries of the world.

SAFETY PRECAUTIONS

Important:

This equipment is fitted with an approved non rewireable UK mains plug. To change a fuse in this type of plug proceed as follows:

1. Remove the fuse cover and fuse.
2. Fit a new fuse which should be a BS1362 3Amp A.S.T.A. or BSI approved type.
3. Ensure that the fuse cover is correctly refitted.

If the fuse cover is lost or damaged the plug must **NOT** be used but replaced with a serviceable plug.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place. If the mains plug contains a fuse, this should have a rating of 3 Amp, ensure the fuse cover is correctly fitted. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

Note: The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13Amp socket elsewhere.

The wires in this mains lead are coloured in accordance with the following code:

Blue -----> Neutral
Brown ----> Live

1. The Blue wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The Brown wire must be connected to the terminal with the letter "L" or coloured RED.
3. **Do not** connect either wire to the earth terminal in the symbol or coloured GREEN or GREEN and YELLOW.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead - not simply over the wires.

THIS UNIT IS NOT DISCONNECTED FROM THE MAINS UNLESS THE MAINS LEAD IS UNPLUGGED.

Care of your product

● Cleaning your LCD screen.

Your LCD screen is coated in a non reflective film. Damage to this film will result in possible discolouration. Any scratches will not be repairable.

Clean your screen with a soft cloth, only rub lightly, do not use detergents.

Do not stick anything to the screen, use solvent or alcohol based cleaners, hit the screen with a hard object or rub the surface hard.

● Placement of your LCD TV.

Table top stand

This LCD TV is supplied with a table top stand fitted. The stand can rotate 360° to the left or right. To rotate your TV hold the base and gently push the edge of the TV.

Wall mounting bracket

An optional wall bracket is available for your LCD TV. Before you consider wall mounting this TV, check that you have an appropriate wall made from solid materials such as concrete or bricks. You will have to remove the table top stand to use this.

Servicing

Your television is fully transistorised and does not contain any user serviceable components.

You must not remove the rear cover of the TV by yourself. The apparatus is working with high voltages and could damage objects or even endanger people. Leave all required repair and service jobs to an authorised service technician. He will exclusively use such spare parts that are complying with the same safety standards as applicable to the original parts. The use of original spare parts can prevent fire, shock and other hazards.

Unplug the television receiver from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- If the power cord or plug is damaged.
- If liquid has been spilt into the television receiver.
- If television receiver has been exposed to rain or water.
- If the television receiver has been dropped or the cabinet has been damaged.
- If the television receiver exhibits a distinct change in performance.
- If the television receiver does not operate normally by following the operating instructions.

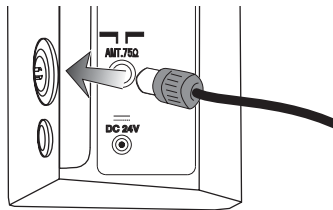


Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage. This will often require extensive work by a qualified technician to restore the television receiver to normal operation.

INSTALLATION

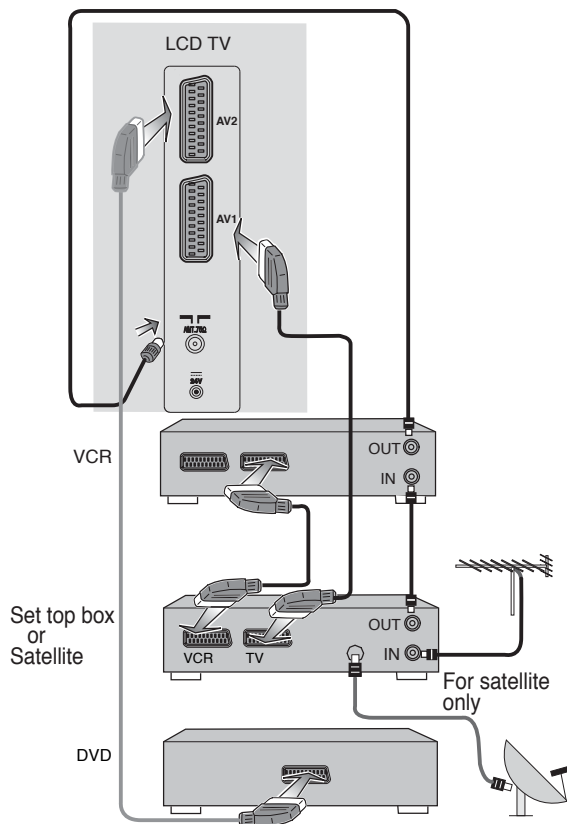
Step : 1 Connections (Essential)

1. Connect your aerial cable socket to the back of the TV set. Fit the aerial cable as shown or as shown below when AV equipment is connected.

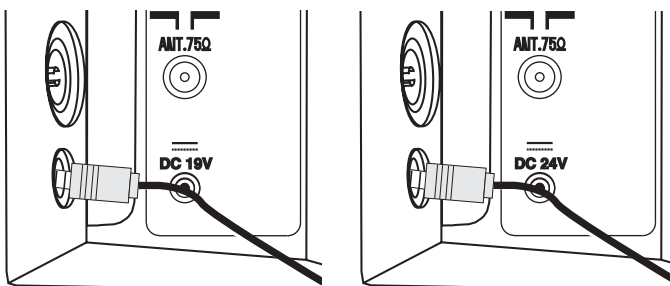


● Connecting DVD / VCR player/ Satellite receiver or Set top box.

We recommend that you connect all other equipment before Plug and Play. The following examples are our recommended standard connection. For further information please consult your local dealer.



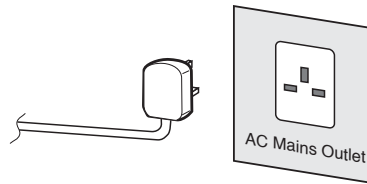
2. Connect the DC power supply adaptor to the LCD TV set. (supplied with the set).



CE17LC4-B
CE17LC4BK-B
CE17LC4W-B

CE23LC4-B
CE23LC4BK-B
CE23LC4W-B

3. Connect the power cord of the LCD TV adaptor to a wall outlet.



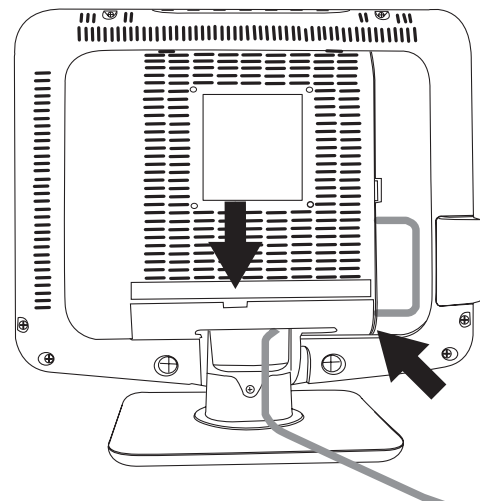
The TV set adaptor is prepared for a mains voltage AC220~240V, 50Hz. To completely switch off the mains, or when the TV set is not to be used for an extended period of time, it is advisable to disconnect the adaptor power cord from the power outlet.

For all aerial problems please consult your local dealer.



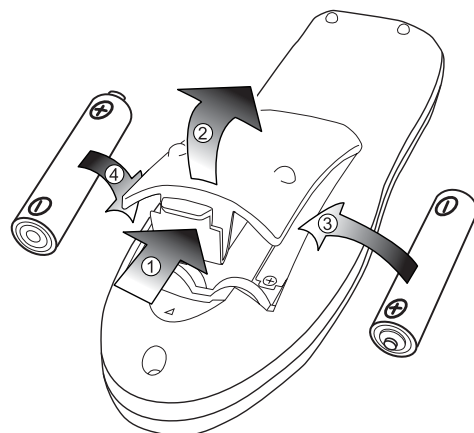
WARNING! High voltages are used in the operation of this set. Refer service to qualified service personnel.

Push the catch downwards to open the door. Place leads behind the door to keep them tidy, and push the door closed.



Step : 2 Remote control battery installation

Install two "AA" 1.5 volt batteries so that the "+" and "-" marks on the batteries match the "+" and "-" marks inside the unit into the remote control handset.

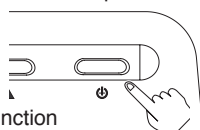


INSTALLATION

Step : 3 Switching on / Plug & Play

The LCD TV will have a red Standby light to show there is power.

Press the standby button on the top of the LCD to start Plug and Play.



This TV set provides a self - automatic tuning function called Plug and Play which automatically searches and stores all of the available TV stations in your reception area.

Auto sort

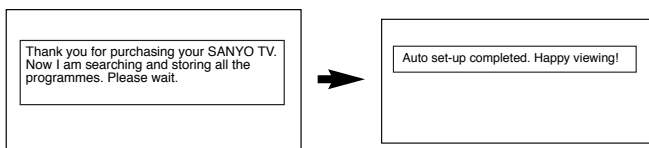
OSD language	English
Country	UK
Start	OK?

Press the **P▲** or **P▼** to highlight **OSD language**. Select your language by pressing the **▲-** or **▲+** button (English).

Press **P▼** to select **Country** identification and by pressing the **▲-** or **▲+** buttons select **UK** or **IRE** (for Ireland).

When you are happy with your selection press **P▼** to select **Start**. Press the **F/OK** button to select **OK**. This will automatically start Plug and Play.

A welcome message will appear while Plug and Play is in operation and then after all channels have been tuned a second screen appears to tell you the operation has been completed.



To remove the completed message press the **MENU** button.

Now the installation is complete!

After Plug & Play the TV set automatically allocates the following major stations in the UK.

- Position 1 : BBC1
- Position 2 : BBC2
- Position 3 : ITV
- Position 4 : CH4 or S4C
- Position 5 : CH5
- Position 6 : SKY, BBC-World or BBC-Prime

After Plug & Play the TV set automatically allocates the following major stations in Ireland.

- Position 1 : RTE1
- Position 2 : RTE2
- Position 3 : TV3
- Position 4 : TG4
- Position 5 : BBC1
- Position 6 : BBC2
- Position 7 : ITV
- Position 8 : CH4

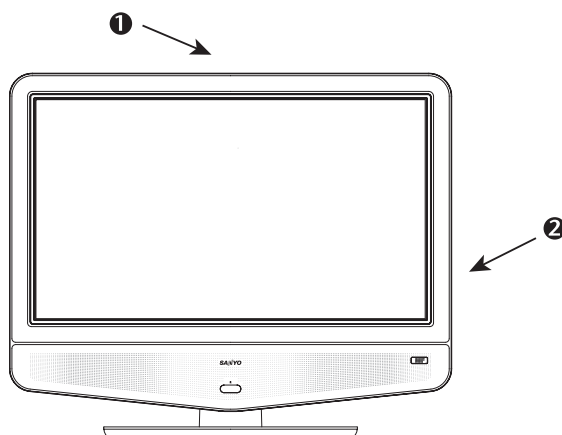
If any other channels are available in your reception area, the remaining stations will be stored from programme position 7 for UK and 9 for IRELAND in sequence as found.

If you move to another city or cable is installed, please follow the description "**Preset**". (on page 8).

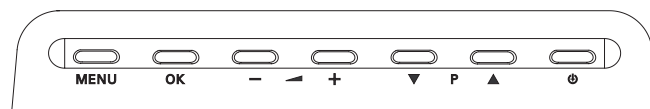
This procedure should only appear the first time you switch on your LCD.

Refer to helpful hints on page 12 if you have a problem with the Plug & Play.

Terminals



1. On the top of LCD TV



Press the **P▲** or **P▼** button to increase or decrease the programme position.

Press the **▲+** or **▲-** button to increase or decrease the sound volume.

Press the **⏻** button to switch the set into and out of Standby.

Press the **MENU** button to enter and exit sub menus.

Press the **OK** button to save a setting in a menu.

2. Left side terminals

To select the AV3 mode press the **TV/□** button repeatedly.

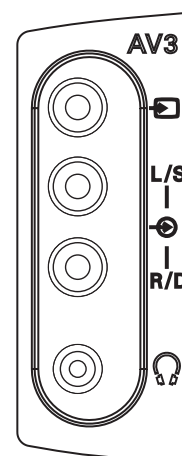
When the headphones are inserted the sound from the TV speakers is muted.

3.2 mm Mini Headphone din.

AV3 Video in.

AV3 Left Audio in.

AV3 Right Audio in.



REMOTE CONTROL

TV/AV switch

To switch from TV, AV1, AV2 or AV3 mode press repeatedly.

Screen mode selector

To select the screen mode, Auto, Natural, Full Cinema 1, Cinema 2, Subtitle or Normal. Refer to page 11.

Stereo/Bilingual selector

To switch the sound mode as follows; **STEREO(NICAM)** or **MONO** in the stereo programmes. **A** or **B** in the bilingual programmes. If the **STEREO** sound reception is poor in quality, you can switch to **MONO** sound reception by pressing **A•B** button.

Direct programme selector

For direct access to programmes using **(0-9) numeric buttons** in analogue and digital. For selection of programme position 10 - 99, for example 23, first press **-/-** button and press **2** and **3** numeric buttons.

MENU

To enter and exit sub menus. Also see page 7.

Volume up/down

To adjust the sound level.

Picture mode selection

Press the **→←** button repeatedly to select the following picture modes.

Personal - Personal preference mode.

Dynamic - Suitable for brightly lit rooms.

Standard - Normal viewing mode.

Eco - Suitable for dimly lit rooms and gives a cinema - like effect.

Surround mode selector

To select the surround mode, **ACTIVE**, or **OFF**.

F/OK

To save the setting in the menu.

Standby

To switch the TV on and off. Also see page 10.

Programme information call

To display the programme information. You can also select colour systems in AV mode as follows **AUTO -> PAL -> NTSC->**

CS button

Press button to scan through all available channels and back to the original channel.

Programme swap

To switch between current and previous programme position watched.

Programme up and down

To select the next programme number or previous programme number.

Sound mute

To switch the sound from the speakers. The sound changes as follows;
Normal volume -> Mute

Bass selection

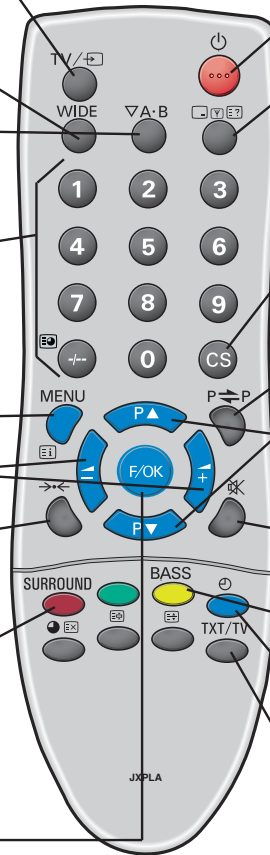
To get an emphasised bass sound **ON** or **OFF**.

Time display

In the TV mode, if the teletext is available the teletext clock will be displayed on the screen. To remove the clock press the button again.

Teletext/TV selector

To access this feature press the **TXT/TV** button the picture changes from **TV - TXT - MIX** and back to **TV**.








MENU OPERATION

Many of your TV's functions are controlled through the menu function.

Main menu


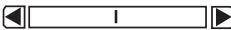

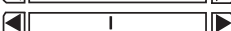
Sound	—	Volume	
		Balance	
		Bass	
		Treble	
		Sound preset	— Personal / Music / Talk / Normal
		BBE	— On / Off
		Surround	— Mid / Max / Off
Picture	—	Brightness	
		Contrast	
		Colour	
		Sharpness	
		Tint (only when NTSC is detected)	
		Picture preset	— Personal / Standard / Eco / Dynamic
		Dyn. skin tone	— On / Off
		Text brightness	— Max / Mid / Min
Setting	—	Child lock	— On / Off
		OSD language	— English
		Text language	— East / West
		AV2	— S-Video / Video
		Timer	▶ — Off Timer
			Alarm timer
Preset	—	Program sort	▶
		Auto sort	OK?
		Country	UK or IRE
		Program pos.	12
		Program name	Sky
		Frequency	799.12 MHz
		Sound system	S-3
		Skip	Off / On
		Memory	OK? / OK

During the menu operation the following buttons are used.

- MENU**  : To enter the menu function.
 : To go back and to exit the menu function.
 : To navigate up and down in the menus.
 : To navigate downwards in the menus.
 : To navigate forwards to the next screen or to activate settings.

Sound menu

1. Press the **MENU** button and select **Sound** using the **P▲** or **P▼** buttons.
2. Press the **▲+ / ▼-** button to select.

Sound		
Volume	25	
Balance	1	
Bass	2	
Treble	-2	
Sound preset	Personal / Music / Talk / Normal	
BBE	Off / On	
Surround	Off / Mid / Max	

Select and adjust to obtain the best sound settings for your environment using the **P▲**, **P▼** and **▲+ / ▼-** buttons.

Sound preset: Rotates between Personal, Music, Talk and Normal settings.





BBE: To make the sound more natural, clearer and well defined.

Press the **MENU** button repeatedly to exit.

Picture menu

Press the **MENU** button and select **Picture** using the **P▲** or **P▼** button.

Press the **▲+ / ▼-** button to select.

Picture		
Brightness	20	
Contrast	25	
Colour	26	
Sharpness	22	
Picture preset	Personal / Standard / Eco / Dynamic	
Dyn. skin tone	On / Off	
Text brightness	Min / Mid / Max	

Select Brightness, Contrast, Colour etc. using the **P▲** and **P▼** buttons and adjust using the **▲+ / ▼-** buttons to obtain the best picture settings for your environment.

Tint : Colour phase if NTSC equipment is detected.

Picture preset: Rotates between your **Personal** settings, **Standard**, **Eco** and **Dynamic**.

Dyn. Skin tone: Makes the skin tone more realistic.

Text brightness : Brightness of Teletext screen Minimum / Middle / Maximum.

Press the **MENU** button repeatedly to exit.

Setting menu

■ Child lock


You can prevent small children from operating the TV with the front buttons of the TV set.

1. Press the **MENU** button and select **Setting** using the **P▲** or **P▼** buttons, press the **▲+ / ▼-** button to enter.

Setting	
Child lock	On / Off
OSD language	English
Text language	East / West
AV2	S-Video / Video
Timer	▶

2. Press the **P▲** or **P▼** button to select **Child lock**, select **On / Off** by pressing the **▲+ / ▼-** button.

Press the **MENU** button repeatedly to exit.

 The child lock mode will be reset to "Off" when the LCD TV set is disconnected completely from the adaptor power cord.

■ OSD language

1. Press the **MENU** button and select **Setting** using the **P▲** or **P▼** button, press the **▲+ / ▼-** button to enter.

2. Press the **P▲** or **P▼** button to select **OSD language**, select English by pressing the **▲+ / ▼-** button.

Press the **MENU** button repeatedly to exit.

MENU OPERATION

Setting menu

Setting	
Child lock	On / Off
OSD language	English
Text language	East / West
AV2	S-Video / Video
Timer	▶

■ Text Language

1. Press the **MENU button** and select **Setting** using the **P▲** or **P▼** button, press the **▶** button to enter.
2. In the setting menu press **P▲** or **P▼** buttons to select **Text Language**.
2. Press **◀** or **▶** buttons to select East or West.

Please refer to table below.

WEST		EAST	
ENGLISH	GREEK □	GERMAN □	POLISH □
SWEDISH	ITALIANO	ROMANIANO	CZECH
FINNISH	HUNGARIANO	SLOVAKIANO	CROATIANO □
FRENCH	SPANISH □	BOSTONIANO □	□
TURKISH	GERMANO	□	□

■ Setting of AV2 input mode

If you use a VCR which has S-VHS, you should connect it to AV2 and change the AV2 menu to S-Video.

1. Press the **MENU button** and select **Setting** using the **P▲** or **P▼** button, press the **▶** button to enter.
2. Press the **P▲** or **P▼** button to select **AV2**, select **S-Video / Video** by pressing the **▶** or **◀** button.

Press the **MENU button** repeatedly to exit.

■ Off-timer setting

The Off timer will switch the TV set into the standby mode when the selected time has elapsed.

1. Press the **MENU button** and select **Setting** using the **P▲** or **P▼** button, press the **▶** button to enter.
2. Press the **P▲** or **P▼** button to select **Timer**, press the **▶** button to enter.
3. Press the **P▲** or **P▼** button to select **Off timer**. Press the **▶** or **◀** button to select the time.

Timer	
Off Timer	Off / 5 / 10 / 15 / 120
Alarm timer	Off / 1 / 2 / 3 / 180

The time changes in 5 minute steps. The maximum time is 2:00hrs.

Once set the time will show on the screen with the remaining time for a few seconds.

Press the **MENU button** repeatedly to exit.

*☞ If the TV set is switched off by disconnecting the adaptor power cord, or by pressing the **⏻** button on the remote control, or during Auto sort, the timer settings will be cancelled.*

■ Alarm timer setting

This function can be set so that an alarm goes off. This only happens when the TV is switched on.

1. Press the **MENU button** and select **Setting** using the **P▲** or **P▼** button, press the **▶** button to enter.
2. Press the **P▲** or **P▼** button to select **Timer**, press the **▶** button to enter.
3. Press the **P▲** or **P▼** button to select **Alarm timer**.
4. Press the **▶** or **◀** button to select the time.

The display changes in 1 minute steps and the maximum time period is 3:00 hours.

When the time period is up, the time up signal will appear on the screen and the alarm will sound for approximately 10 seconds.

To cancel the alarm timer, press any button and the display will disappear.

☞ If the TV set is disconnected with the adaptor power cord, or switched off the Standby button on the remote control or a power failure occurs the timer settings will be cancelled.

MENU OPERATION

Preset menu

The preset menu can be used to tune new channels, to reorder channels and their programme positions, and to make fine adjustments to the tuning.

The preset menu is used for the following.

Program sort : To rearrange channel positions after Auto sort.

Auto sort: To automatically search, sort and store all channels.

Frequency : To manually search and add channels. To fine tune existing channels.

Preset	
Program sort	▶
Auto sort	Busy / OK?
Country	UK / IRE
Program pos.	6
Program name	Sky
Sound system	S-3
Frequency	631.25 MHz
Skip	On / Off
Memory	OK?

☞ Preset function can be disabled, see Hotel mode on page 11.

■ Program sort

1. Press the **MENU button** and select **Preset** using the **P▲** or **P▼** button, press the **▲+ button** to enter.
2. Select **Program sort** using the **P▲** or **P▼** button. Using **▲+**, **▲-** buttons and **P▲** or **P▼** buttons. Select which channel you want to move eg. Programme position 4. (highlighted yellow). Press (Green) Move button, the programme position number turns green. Screen shows Move to at the bottom of the screen.

Program sort		
1	6	11
2	7	12
3	8	13
4	9	14
5	10	15

▲ ▼	◀ ▶	■ Move ■ Delete

3. Select programme position to move to eg. 2 . Press **Green Move** button again to move.
4. To delete a channel. Select the Programme position. ie.17. Press **Red** button. (highlights number red). Press **Red** button again to delete. Programme position 17 is now deleted.

Press the **Menu button** repeatedly to exit.

■ Auto sort

1. Press the **MENU button** and select **Preset**, press the **▲+ button** to enter.
2. Select **Country** by pressing the **P▲** or **P▼** buttons. Select (UK / IRE) by pressing the **▲+** or **▲-** buttons.
3. Select **Sound system** by pressing the **P▲** or **P▼** buttons. Select **S-3** by pressing the **▲+** or **▲-** buttons.

System S-3 MUST be selected for correct sound in the UK and Ireland.

4. Select **Auto sort** by pressing **P▲** or **P▼** buttons. Press the **F/OK button** to start automatically tuning, sorting and storing all available channels.

After completion Auto sort changes from Busy to OK?

4. Press the **MENU button** repeatedly to exit.

Note : Auto sort can be cancelled at any time by pressing any button except for the **F/OK** button.

: You can change the order of the station selection, by using the Program sort function.

■ Tuning - Frequency (Manual)

1. Press the **MENU button** and select **Preset**.
2. Select **Programme position** using the **P▲** or **P▼** buttons and select the programme position where you wish to preset a channel using the **0-9**, **-/-**, buttons or **▲+**, **▲-** buttons.
3. Select **Programme name** using the **P▲** or **P▼** buttons. Press the **▲+ button**, the first character space turns red. Press the **P▲** or **P▼** buttons until the number or first letter you require appears (0-9, A-Z, a-z, ?, !, -, +). Press the **▲+ button** to select the second character.

You can assign 7 characters of information. When finished press the **▲+** button repeatedly until no character is highlighted.

4. Select **Frequency** by using the **P▲** or **P▼** button. (Refer to the channel table on page 9.)

You can either...

- a) Enter the frequency using the 0-9 buttons referring to the channel table.
- b) Press and hold the **▲+** or **▲-** buttons until the frequency starts scanning (about 5 seconds), scanning will stop when a channel is found.
- c) Keep pressing to de-tune the frequency.

Repeat above until the correct channel is found.

5. Press the **P▲** or **P▼** button to select Memory. Press the **F/OK** button to store the new frequency.
6. Repeat for other programme positions if required.

■ Skip

Skip ON : In normal operation when the **P▲** or **P▼** button is pressed this position will be skipped.

Skip OFF : Position is not skipped when **P▲** or **P▼** button is pressed.

1. Press the **MENU button** select **Preset - Program. pos.**
2. Select a program position that you wish to Skip.
3. Select **Skip** by pressing the **P▼** button. Using the **▲+** or **▲-** buttons select On or Off.
4. Press the **P▲** or **P▼** button to select Memory. Press the **F/OK** button to memorise.

Press the **Menu button** repeatedly to exit.

☞ You can still view a programme position that has been skipped by using the 0-9 numeric buttons to select the programme position directly.

☞ To memorise any setting, using the **P▲** or **P▼** button select Memory and press the **F/OK** button.

OPERATION

Selecting of picture size

Screen options

Today there are various transmission formats with different size ratios, eg. 4:3, 14:9, 16:9 and video formats such as letterbox.

Auto

It automatically switches to the optimum screen mode according to the WSS signal provided in the receiving signal source. If the signal does not have it, the TV keeps current screen mode.

☞ This setting may cause the picture to change when a different format is received eg. when an advert is received.

☞ WSS (Wide screen signalling)

Some broadcasters transmit this signal and some VCR tapes have it included. The signal identifies the picture format ratio (16:9, 14:9, 4:3 etc.).

If WSS is not being received and you are not happy with your picture this TV provides you the option to change it with the following options.

Press the **WIDE** button repeatedly to select your desired setting.

Natural

4:3	14:9	16:9	Letterbox Video
Stretches the picture horizontally to fill the screen. The picture is more stretched at the edges.	The height is expanded to fill the whole screen.	The picture fills the screen and is proportionally correct.	The black bars top and bottom remain and the height is compressed to fit the picture area.

Full

4:3	14:9	16:9	Letterbox Video
The whole screen is filled stretching the width.	The whole screen is filled stretching the height slightly at the edges.	The whole screen is filled with the correct picture ratio.	The black bars top and bottom are present and the height is compressed.

Cinema 1

4:3	14:9	16:9	Letterbox Video
The correct picture width is maintained but the top and bottom are cropped.	Zooms in slightly cropping the top and bottom.	Zooms in slightly cropping the top and bottom.	The black bars top and bottom are smaller and the picture height is compressed slightly.

Cinema 2

4:3	14:9	16:9	Letterbox Video
The correct picture width is maintained but the top and bottom are cropped.	Zooms in slightly cropping the top and bottom.	Zooms in slightly cropping the top and bottom.	The black bars top and bottom are smaller and the picture height is compressed slightly.

Subtitle

4:3	14:9	16:9	Letterbox Video
As Cinema 2, but bottom is compressed even more to allow subtitles to be seen.	As Cinema 2, but bottom is compressed even more to allow subtitles to be seen.	As Cinema 2, but bottom is compressed even more to allow subtitles to be seen.	As Cinema 2, but bottom is compressed even more to allow subtitles to be seen.

Normal

4:3	14:9	16:9	Letterbox Video
The correct ratio is maintained with black bars on the left and right.	Black bars left and right, picture height is stretched.	Black bars left and right, picture height is stretched.	Black bars left, right, top and bottom.

Channel Table

The table below shows the receivable channels and channel allocation for this LCD TV set.

Displayed channel no.	Italian channels	CCIR channels	OIRT channels	Vision Frequency [MHz]	Displayed channel no.	Italian channels	CCIR channels	OIRT channels	Vision Frequency [MHz]
01	A0	E00	R0	43.250	75	X0	X0	R3	69.250
02	A1	E01	R1	48.250	76	Y0	Y0	R4	76.250
03	A2	E02	R2	55.250	77	C/Z0	Z0	R5	83.250
04	B0	E40	R6	62.250	78	Z+10	Z+10		90.250
05	D0	E50	R7	175.250	79	Z+20	Z+20		97.250
06	E0	E60	R8	182.250	80	S10	S10		105.250
07	F0	E70	R9	189.250	81	S20	S20		112.250
08	G0	E80	R10	196.250	82	S30	S30		119.250
09	H0	E90	R11	205.250	83	S40	S40		126.250
10	I0	E100	R12	210.250	84	S50	S50		133.250
11	J0	E110	R13	217.250	85	S60	S60		140.250
12	K0	E120	R14	224.250	86	S70	S70		147.250
13	L0	E130	R15	231.250	87	S80	S80		154.250
14	M0	E140	R16	238.250	88	S90	S90		161.250
15	N0	E150	R17	245.250	89	S100	S100		168.250
16	O0	E160	R18	252.250	90	S110	S110		175.250
17	P0	E170	R19	259.250	91	S120	S120		182.250
18	Q0	E180	R20	266.250	92	S130	S130		189.250
19	R0	E190	R21	273.250	93	S140	S140		196.250
20	S0	E200	R22	280.250	94	S150	S150		203.250
21	T0	E210	R23	287.250	95	S160	S160		210.250
22	U0	E220	R24	294.250	96	S170	S170		217.250
23	V0	E230	R25	301.250	97	S180	S180		224.250
24	W0	E240	R26	308.250	98	S190	S190		231.250
25	X0	E250	R27	315.250	99	S200	S200		238.250
26	Y0	E260	R28	322.250	100	S210	S210		245.250
27	Z0	E270	R29	329.250	101	S220	S220		252.250
28	AA	E280	R30	336.250	102	S230	S230		259.250
29	AB	E290	R31	343.250	103	S240	S240		266.250
30	AC	E300	R32	350.250	104	S250	S250		273.250
31	AD	E310	R33	357.250	105	S260	S260		280.250
32	AE	E320	R34	364.250	106	S270	S270		287.250
33	AF	E330	R35	371.250	107	S280	S280		294.250
34	AG	E340	R36	378.250	108	S290	S290		301.250
35	AH	E350	R37	385.250	109	S300	S300		308.250
36	AI	E360	R38	392.250	110	S310	S310		315.250
37	AJ	E370	R39	399.250	111	S320	S320		322.250
38	AK	E380	R40	406.250	112	S330	S330		329.250
39	AL	E390	R41	413.250	113	S340	S340		336.250
40	AM	E400	R42	420.250	114	S350	S350		343.250
41	AN	E410	R43	427.250	115	S360	S360		350.250
42	AO	E420	R44	434.250	116	S370	S370		357.250
43	AP	E430	R45	441.250	117	S380	S380		364.250
44	AQ	E440	R46	448.250	118	S390	S390		371.250
45	AR	E450	R47	455.250	119	S400	S400		378.250
46	AS	E460	R48	462.250	120	S410	S410		385.250
47	AT	E470	R49	469.250	121	S420	S420		392.250
48	AU	E480	R50	476.250	122	S430	S430		399.250
49	AV	E490	R51	483.250	123	S440	S440		406.250
50	AW	E500	R52	490.250	124	S450	S450		413.250
51	AX	E510	R53	497.250	125	S460	S460		420.250
52	AY	E520	R54	504.250	126	S470	S470		427.250
53	AZ	E530	R55	511.250	127	S480	S480		434.250
54	BA	E540	R56	518.250	128	S490	S490		441.250
55	BB	E550	R57	525.250	129	S500	S500		448.250
56	BC	E560	R58	532.250	130	S510	S510		455.250
57	BD	E570	R59	539.250	131	S520	S520		462.250
58	BE	E580	R60	546.250	132	S530	S530		469.250
59	BF	E590	R61	553.250	133	S540	S540		476.250
60	BG	E600	R62	560.250	134	S550	S550		483.250
61	BH	E610	R63	567.250	135	S560	S560		490.250
62	BI	E620	R64	574.250	136	S570	S570		497.250
63	BJ	E630	R65	581.250	137	S580	S580		504.250
64	BK	E640	R66	588.250	138	S590	S590		511.250
65	BL	E650	R67	595.250	139	S600	S600		518.250
66	BM	E660	R68	602.250	140	S610	S610		525.250
67	BN	E670	R69	609.250	141	S620	S620		532.250
68	BO	E680	R70	616.250	142	S630	S630		539.250
69	BP	E690	R71	623.250	143	S640	S640		546.250

TELETEXT / OTHER FEATURES

Direct access to a page

All the numeric buttons can be used to select a page number directly. If you need page 301, press 3 then 0 and then 1.

Sub page access

Some text pages are made up of several sub pages which rotate automatically. If you wish to view P4 of 8 press the sub page button. "----" will appear. Enter 0004 and it will appear.

Index page selector

This selects one of the teletext index pages.

Cursors

Press the button to select the next page or previous page number.

Cancel

To view the TV picture in the teletext mode while waiting for sub page to change or page to update. Press again to return to teletext.

Hold

This stops the sub pages from changing. The word "HOLD" will appear instead of the page number.

Standby / Power on-off

To switch the TV ON and OFF.

Reveal switch

This reveals hidden items on the teletext page eg: a hidden answer to a quiz question.

Page up and down

Press the button to select the next page or previous page number.

Direct access to subject headings

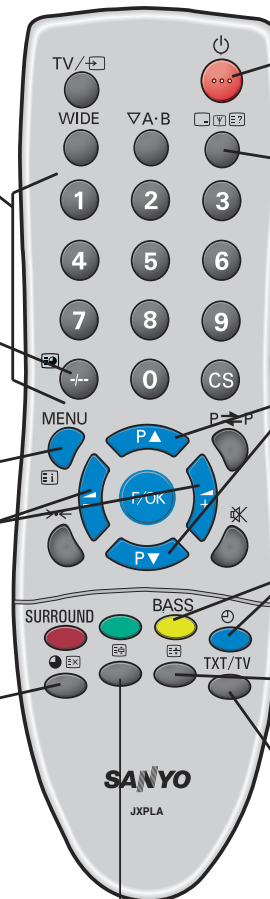
Coloured boxes are displayed at the bottom of the screen. The 4 coloured buttons give access to the corresponding subjects or pages.

Size switch

This will make either the top half or the bottom half of the page expand to fill the whole screen.

Teletext / TV

To access this feature press the TXT/TV button the picture changes from TV - TXT - MIX and back to TV.



Other features

■ Switching into /from standby mode

The Standby mode is used for switching the TV set off for short periods of time. In standby mode the TV is switched off but is still receiving mains power.

- To turn the TV set into standby mode, press the **⏻** button. *The red power indicator illuminates more brightly.*
- To turn the TV set ON from standby mode, press any of the following buttons: **⏻**, **P▲**, **P▼** or **0-9** buttons.

If you find the power indicator flashing, please turn the TV set off with the Standby switch and disconnect the power cord from the power outlet and contact our Service desk.

This warning is a sign to let you know that the power protection function of this TV set is now operating.

■ Auto shut off

This TV set will automatically switch into the standby mode, 10 minutes after a signal is no longer received. The time until the set will switch off is displayed on the screen.

What is BBE?

By correcting the phase delay and distortion naturally generated by speaker systems, BBE ensures that the sound that reaches your ears is as natural as the original sound. Human voices are clearer and music is well-defined.



Licensed by BBE SOUND, Inc. under USP4638258 and 4482866. BBE and BBE symbol are trademarks of BBE Sound.

Hotel options

This TV set allows you to set up the following:-

■ Maximum volume.

The current volume will become the maximum.

■ Prohibition of presetting.

This prohibits the use of tuning.

■ Programme position at Start up.

SETTING PROCEDURE

1. Press and hold the **□▽▽?** button on the Remote control handset and then press the **P▲** button on the TV set.
2. Use the **P▲** or **P▼** button to highlight **Hotel Mode**, use the **▲+** button to switch ON or OFF.
3. Select Max volume using the **P▼** button, use the **▲+** or **▲-** buttons to set the maximum volume.

Hotel	
Hotel mode	On / Off
Max volume	12 -----
On program	0-99 / AV1 - AV3

4. Select **On program** using the **P▼** button, select the start up position using the **▲+** or **▲-** buttons.

(AV3 - AV2 - AV1 - 0 - 1 - 2 - 3 - 499)

5. Press the **MENU** button to exit from the menu.

HELPFUL HINTS / WARRANTY TO CUSTOMER

Helpful hints

■ NO PICTURE, NO SOUND

- Check if TV is plugged in.
- Try a different channel, if OK, probably station trouble.

■ POOR PICTURE, SOUND OK

- Adjust BRIGHTNESS control.
- Adjust FINE TUNING control.
- Check aerial connections.

■ NO COLOUR, PICTURE OK

- Adjust COLOUR control.
- Adjust FINE TUNING control.
- Is the programme in colour ?

■ WEAK PICTURE

- Check aerial connections on back of set.
- Check aerial for broken wires.
- Re-orient aerial.

The following faults are not caused by the receiver:

"GHOSTS"

Reflections of signals from mountains or high buildings will cause multiple images, called "Ghosts". These abnormal conditions can be reduced to minimum by repositioning aerial or by installing new one suited for your area.

"INTERFERENCE"

Interference may be caused by electrical appliances, car ignition systems, etc. This should normally be a temporary condition, but should this interference persist, contact your dealer.

■ Plug and Play.

If you do not fit an aerial into this TV set the Plug and Play feature may start up each time you switch on your LCD TV.

To prevent this follow these instructions.

1. Switch on your LCD TV set, the Plug and Play screen appears.
2. Press the **MENU** button on the remote control to clear the Plug and Play screen.
3. Press the **MENU** button to select the Menu screen. (as shown below).

Main menu	
Sound	▶
Picture	▶▶
Setting	▶▶▶
Preset	▶▶▶▶

4. Select **Preset** Menu by pressing the **P▼** or **P▲** button and **▶** or **▶▶** button to enter.
6. Press the **P▼** button and select **Memory**. Press the **OK** button to cancel. (The OK? changes to OK).

Preset	
Program sort	▶
Auto sort	Busy / OK?
Country	UK / IRE
Program pos.	6
Program name	Sky
Sound system	S-3
Frequency	631.25 MHz
Skip	On / Off
Memory	OK?

7. The next time you switch on your LCD TV set the Plug and Play screen will not be displayed.

Warranty to customer

SANYO Europe Ltd. (the company) warrants to the initial retail purchaser that if this equipment is or becomes defective and that, in the opinion of the Company, the defect is due to faulty material or workmanship the Company will, for a period of 12 calendar months from the date of sale to the original purchaser repair or replace, at its sole option, free of charge, any such defective component part of the equipment, always provided that:-

- 1: The equipment has at all times been used in accordance with the operating instructions issued by the Company, and has not been connected to an electrical mains supply for which it has not been adjusted.
- 2: Accidental damage or damage caused by negligence of misuse by the user, is specifically excluded.
- 3: Unauthorised repairs, or any modification to the equipment which has not been expressly approved by the Company, shall render this warranty null and void.
- 4: Failure due to fair wear and tear of any item is specifically excluded.

This warranty is not transferable and is only applicable within the United Kingdom (and the Republic of Ireland).

Nothing in this express warranty affects the statutory rights available to the purchaser of this equipment.

Note: This warranty supersedes any other form of guarantee that may inadvertently have been enclosed with or attached to the product.

Dear Customer.

Thank you for buying SANYO. This equipment should give you many years of pleasure and faithful service but in the event that a fault occurs, the following notes for your guidance may be helpful:-

- 1: PLEASE RETAIN YOUR PURCHASE RECEIPT WHICH WILL BE REQUIRED FOR SERVICE DURING WARRANTY.
- 2: If your SANYO equipment proves faulty during the period of guarantee, take it or send it back to the dealer who originally supplied it together with this guarantee and the proof of purchase. We have made arrangements with our approved dealers under which they will carry out in guarantee service repairs on our behalf. In this way, we hope to reduce to a minimum the amount of time you will be without your equipment.
- 3: If for some reason it is impossible to return the equipment to the original supplier, please contact our Service Department at the address below for further advice.
- 4: Should the equipment require servicing after the expiry of the guarantee period, take or send it to the original supplier or any other Sanyo dealer. He will be pleased to give you a quotation for the repair.

Service Department,
SANYO Europe Ltd.
SANYO House,
18, Colonial Way,
Watford, Hertfordshire, WD24 4PT.
Tel: 01923 246363