SANYO
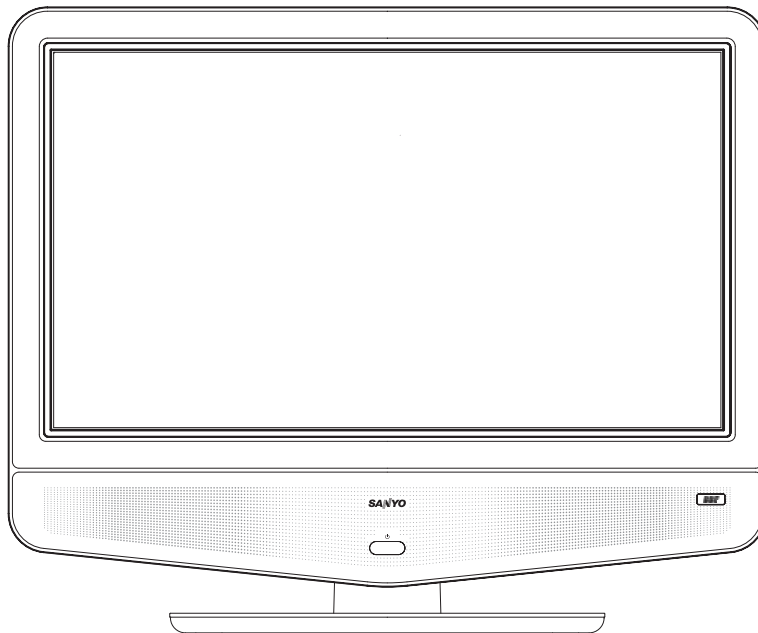
INSTRUCTION MANUAL

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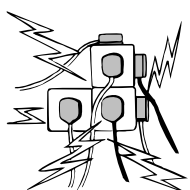
Do not allow anything to rest on the power cord. **Do not** locate this television receiver where the cord will be damaged by people walking on it.

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

5cm

10cm

10cm   10cm
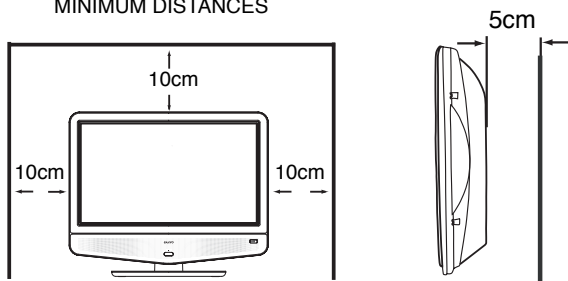
If the television is built into a unit, or enclosed, the minimum distances for ventilation must be maintained. Heat build up can reduce the life of your television, and can be dangerous.

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.
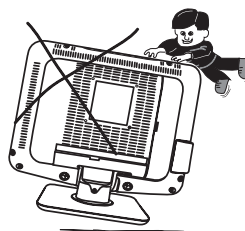
Never stand on, lean on or push the television or its stand. **Never** allow children to play with the television or its stand. Serious injury may result if it should fall.
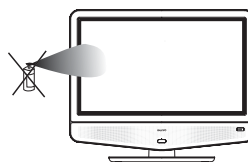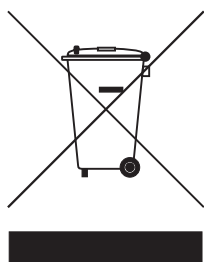
Do not apply liquid cleaners or aerosol cleaners directly onto the television receiver. Use a soft cloth for cleaning.
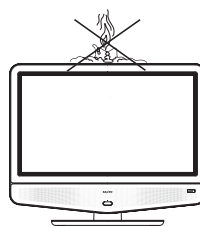
Do not place candles or hot objects upon the TV, next to it or behind it. Open flames must never be used near the TV set.

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.
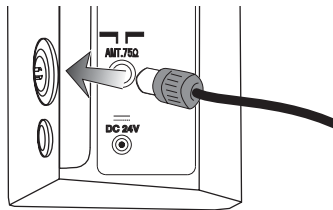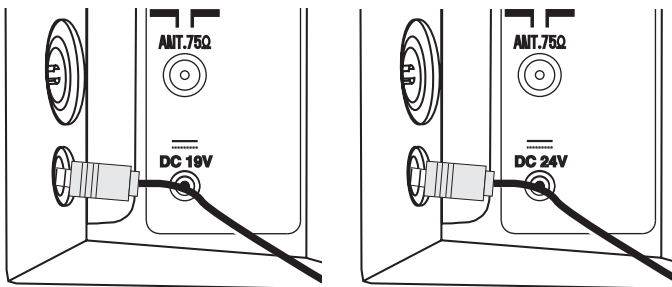

● **Connecting DVD / VCR player/ Satellite receiver or Set top box.**

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.
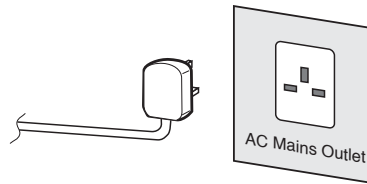

LCD TV

AV2

AV1

VCR

OUT

IN

Set top box
or
Satellite

OUT

IN

VCR   TV

For satellite
only

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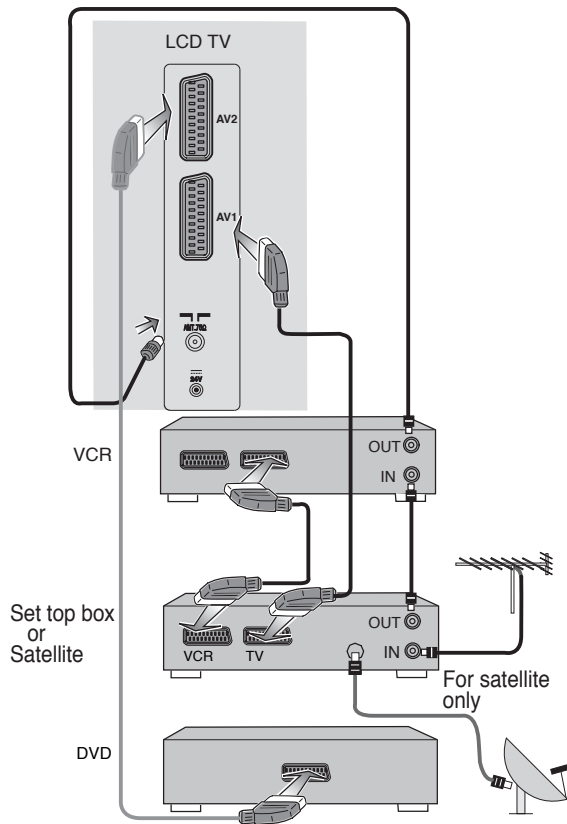
2. Connect the DC power supply adaptor to the LCD TV set. (supplied with the set).

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.

AC Mains 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.
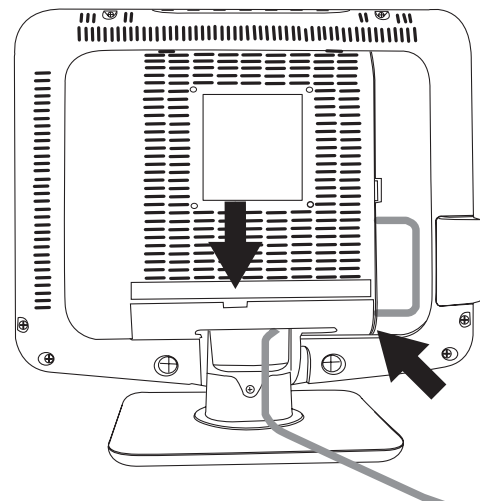
Step : 2 Remote control battery installation

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.
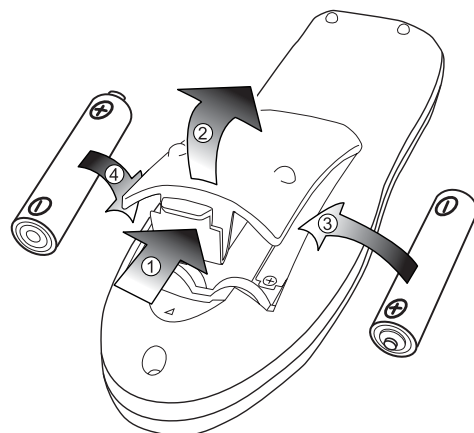
Step : 3 Switching on / Plug & Play

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.

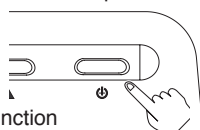This TV set provides a self - automatic tuning function called Plug and Play which automatically searches and stores all of the available TV stations in your reception area.
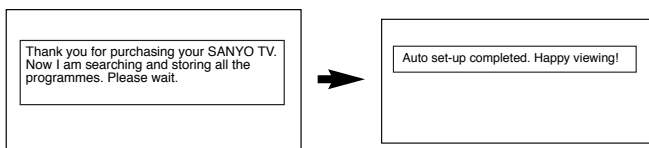
Auto sort	
OSD language	English
Country	UK
Start	OK?

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.

Thank you for purchasing your SANYO TV. Now I am searching and storing all the programmes. Please wait.

Auto set-up completed. Happy viewing!

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
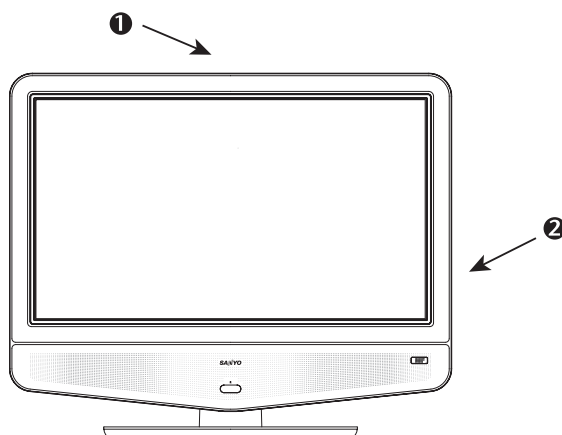
1. On the top of LCD TV
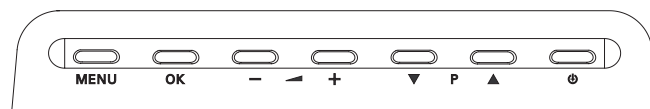
Press the **P▲** or **P▼ button** to increase or decrease the programme position.

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.

⊕ L/S AV3 Left Audio in.

⊕ R/D AV3 Right Audio in.
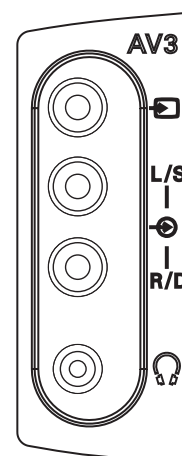
TV/AV switch
To switch from TV, AV1, AV2 or AV3 mode press repeatedly.

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 dimlt 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;
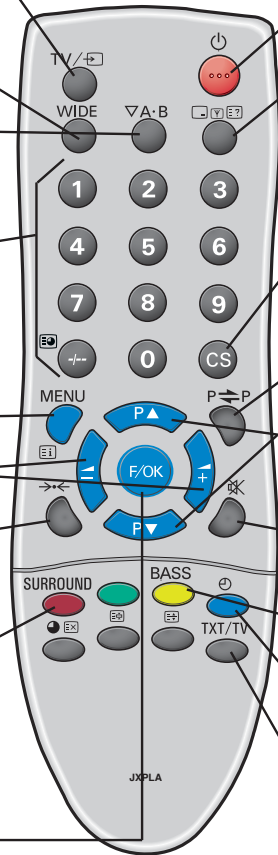**Normal volume -> Mute**

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.

JXPLA

6

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
```
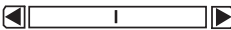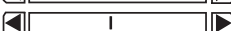
During the menu operation the following buttons are used.

MENU⊡ : To enter the menu function.
: To go back and to exit the menu function.

P▲
P▼ : To navigate up and down 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    ◀[    I    ]▶     │
│ Bass          2    ◀[    I    ]▶     │
│ Treble       -2    ◀[   I     ]▶     │
│ 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 ◀+ and ◀− **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 ◀+ or ◀− **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 ◀+ or ◀− **button**.

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

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	ITALIAN	ROMANIAN	CZECH
FINNISH	HUNGARIAN	SLOVAKIAN	CROATIAN
FRENCH	SPANISH	ESTONIAN	
TURKISH	GERMAN		

■ 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.*

8

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**.*

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 corrrect 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
TITLES ON SCREEN	TITLES ON SCREEN	TITLES ON SCREEN	TITLES ON SCREEN
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]
C 1				43.25	C75	X	X		69.25
C 2	A	E2	R1	48.25	C76	Y	Y	R3	76.25
C 3	A	E3		55.25	C77	C/Z	Z	R4	83.25
C 4	B	E4	R2	62.25	C78	Z+1	Z+1	R5	90.25
C 5	D	E5	R6	175.25	C79	Z+2	Z+2		97.25
C 6	E	E6	R7	182.25	C80	S1	S1		105.25
C 7	F	E7	R8	189.25	C81	S2	S2		112.25
C 8		E8	R9	196.25	C82	S3	S3		119.25
C 9	G	E9		205.25	C83	S4	S4		126.25
C10	H	E10	R10	210.25	C84	S5	S5		133.25
C11	H1	E11	R11	217.25	C85	S6	S6		140.25
C12	H2	E12	R12	224.25	C86	S7	S7		147.25
					C87	S8	S8		154.25
C21	21	E21	E21	471.25	C88	S9	S9		161.25
C22	22	E22	E22	479.25	C89	S1S	S10		168.25
C23	23	E23	E23	487.25	C90	S11	S11		231.25
C24	24	E24	E24	495.25	C91	S12	S12		238.25
C25	25	E25	E25	503.25	C92	S13	S13		245.25
C26	26	E26	E25	511.25	C93	S14	S14		252.25
C27	27	E27	E27	519.25	C94	S15	S15		259.25
C28	28	E28	E28	527.25	C95	S16	S16		266.25
C29	29	E29	E29	535.25	C96	S17	S17		273.25
C30	30	E30	E30	543.25	C97	S18	S18		280.25
C31	31	E31	E31	551.25	C98	S19	S19		287.25
C32	32	E32	E32	559.25	C99	S20	S20		294.25
C33	33	E33	E33	567.25					
C34	34	E34	E34	575.25	H21	S21	S21		303.25
C25	35	E35	E35	583.25	H22	S22	S22		311.25
C36	36	E36	E36	591.25	H23	S23	S23		319.25
C37	37	E37	E37	599.25	H24	S24	S24		327.25
C38	38	E38	E38	607.25	H25	S25	S25		335.25
C39	39	E39	E39	615.25	H26	S26	S26		343.25
C40	40	E40	E40	623.25	H27	S27	S27		351.25
C41	41	E41	E41	631.25	H28	S28	S28		359.25
C42	42	E42	E42	639.25	H29	S29	S29		367.25
C43	43	E43	E43	647.25	H30	S30	S30		375.25
C44	44	E44	E44	655.25	H31	S31	S31		383.25
C45	45	E45	E45	663.25	H32	S32	S32		391.25
C46	46	E46	E46	671.25	H33	S33	S33		399.25
C47	47	E47	E47	679.25	H34	S34	S34		407.25
C48	48	E48	E48	687.25	H35	S35	S35		415.25
C49	49	E49	E49	695.25	H36	S36	S36		423.25
C50	50	E50	E50	703.25	H37	S37	S37		431.25
C51	51	E51	E51	711.25	H38	S38	S38		439.25
C52	52	E52	E52	719.25	H39	S39	S39		447.25
C53	53	E53	E53	727.25	H40	S40	S40		455.25
C54	54	E54	E54	735.25	H41	S41	S41		463.25
C55	55	E55	E55	743.25					
C56	56	E56	E56	751.25					
C57	57	E57	E57	759.25					
C58	58	E58	E58	767.25					
C59	59	E59	E59	775.25					
C60	60	E60	E60	783.25					
C61	61	E61	E61	791.25					
C62	62	E62	E62	799.25					
C63	63	E63	E63	807.25					
C64	64	E64	E64	815.25					
C65	65	E65	E65	823.25					
C66	66	E66	E66	831.25					
C67	67	E67	E67	839.25					
C68	68	E68	E68	847.25					
C69	69	E69	E69	855.25					

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.
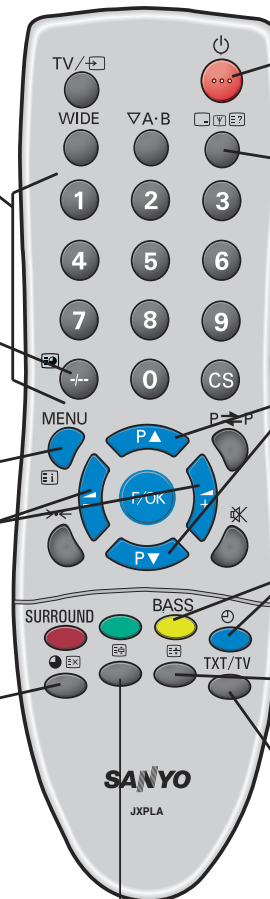
Other features

■ 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 an natural as the original sound. Human voices are clearer and music is well-defined.

BBE®

Licensed by BBE SOUND, Inc. under USP4638258 and 4482866. BBE and BBE symbol are trade-marks 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 - 4 ....99)

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

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.

Part No. 1KA6P1P0180-A   N2SJ/N2RJ

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 you 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.
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Watford, Hertfordshire, WD24 4PT.
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SANYO

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