

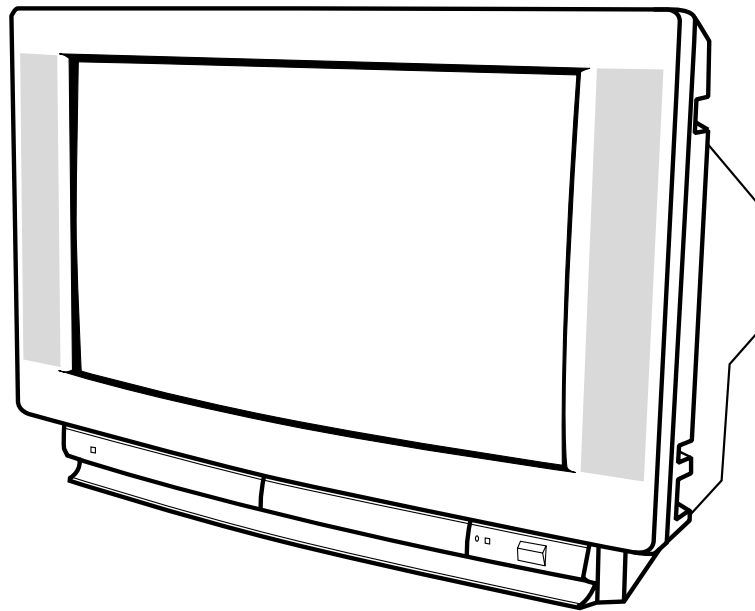
SANYO

Instruction Manual

CE28WN3-B

CE32WN3-B

Colour Television

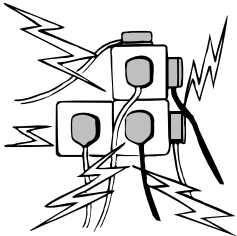


**Please read this Instruction book before using your television.
We wish you many hours of pleasure from your new television.**

SAFETY PRECAUTIONS

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.

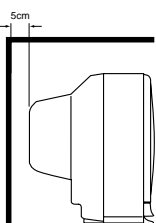
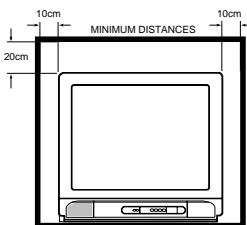
The opening **should never** be covered with a cloth or other material, and the bottom openings **should not** be blocked by placing the television receiver on a bed, sofa, rug, or other similar surface.

This television receiver **should never** be placed near or over a radiator or heater.

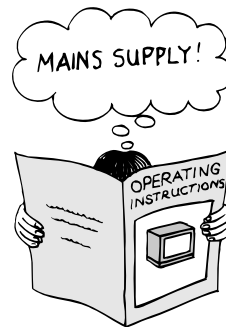
Do not place your television receiver on an unstable stand, shelf or table. Serious injury to an individual, and damage to the television may result if it should fall. Your sales person can recommend approved stands or shelf and wall mounting instructions.

This television receiver should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.

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.

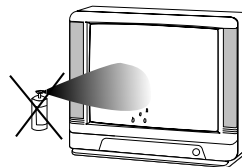
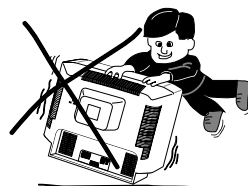
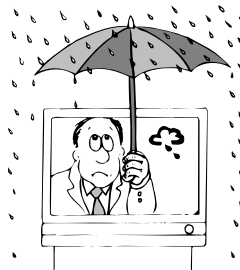
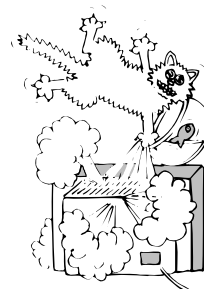
Never add accessories that have not been specifically designed for this television.

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 expose the television receiver to rain or use near water. For example, near a bathtub, kitchen sink, in a wet basement, etc. Before cleaning, unplug the television receiver from the wall socket.

Never stand on, lean on or push suddenly the television or its stand. You should pay special attention to children. Serious injury may result if it should fall.

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



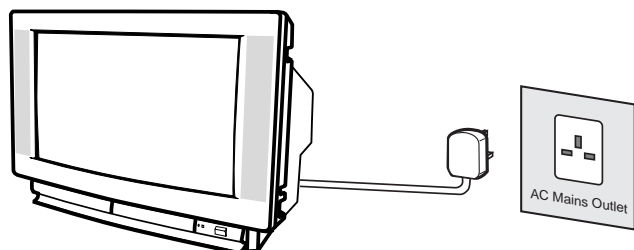
INSTALLATION

Mains Supply

The TV set is prepared for a mains voltage AC220~240V, 50Hz. Connect the power cord of the TV set to a wall outlet. When the TV set is not to be used for an extended period of time, it is advisable to disconnect the power cord from the power outlet.

WARNING!

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



Important:

This equipment is fitted with an approved non rewirable 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 5 Amp A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

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 5 Amp. 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 13 Amp socket elsewhere.

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

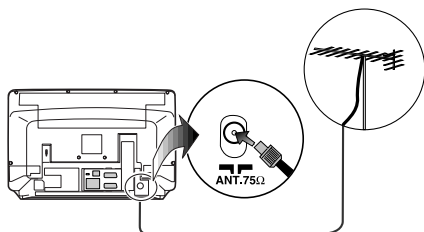
Blue -----> Neutral Brown ----> Live

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 plug which is marked with the letter "E" or by the earth 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.

Introduction Screen

1. Connect your aerial cable socket to the rear of the TV. Don't worry about other AV equipment you should add this later referring to the section "Connecting AV equipment" on page 13.

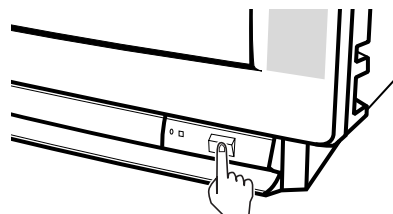


2. Plug the Mains cable plug into a wall socket.

✍ This TV set is prepared for a mains voltage of AC220~ 240V 50Hz.

✍ Please make sure that the aerial cable is connected to the aerial socket of the TV set before switching on.

3. You are now ready to switch on. Simply press the **Mains ON/OFF** switch on the front of the TV set.



✍ A red power indicator will appear.

The following message appears on the screen the first time the television set is switched on.

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

Tuning	
Mode	AUTO
System	PAL
Search	451.25 U >>
Program	01
Store	
Swap	
Name	

After completing this procedure, the ending message appears on the screen.

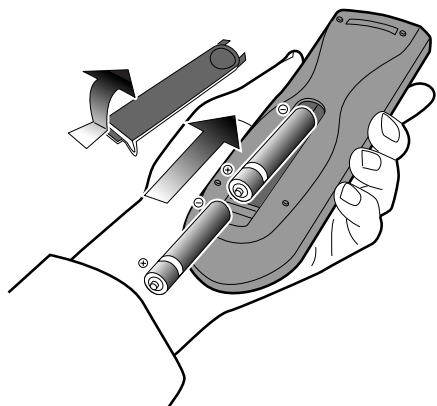
Auto set-up completed. Happy viewing.

Now the installation is completed !

INSTALLATION

Battery Installation

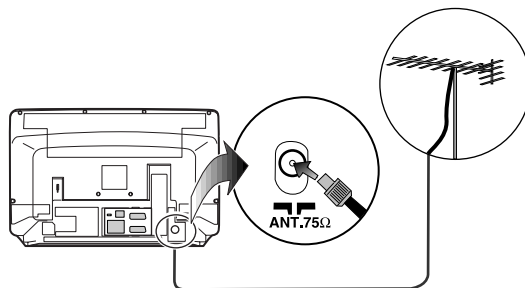
1. Remove the battery cover by sliding it in direction of the arrow.
2. Install two "AA" 1.5 volt batteries so that the "+" and "-" marks on the batteries match the "+" and "-" marks inside the unit.
3. Close the battery cover.



Replace the batteries when the TV set is showing the following symptoms: Operation is unsteady or erratic, sometimes the TV does not work with the transmitter. Discharged batteries may leak and damage the unit. The normal life of batteries should be from nine to ten months.

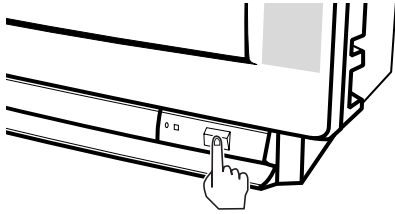
Aerial Connections

- The aerial socket is located on the back of the TV set.
- A colour picture of good quality requires a higher aerial signal than a black/white picture. If you tune your set to a station with a weak colour signal, the television set automatically changes to a black/white picture.
- For all aerial problems please consult your local dealer.
- For the best signal quality, the use of a well shielded antenna cable is recommended.



GENERAL OPERATION

Mains ON/OFF



- To turn the TV set ON, press the **Mains ON/OFF** button. The power indicator illuminates red to show the power is on.
- To turn the TV set OFF, press it again.

If no picture appears but the power indicator is on, press the **button**, **P▲ P▼** or **0-9** button on the Remote Control Handset as the TV set is in the Standby mode.

Standby

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

In the Standby mode the TV set is still partially powered, this is denoted by the red Standby/Power indicator illuminating more brightly than in Power mode.

The **Mains ON/OFF** button must be in the ON position before the using remote control transmitter.

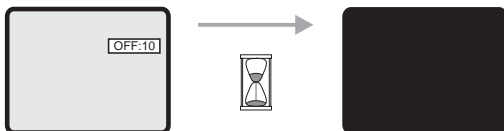
NOTE: It is not possible to turn on with the **Mains ON/OFF** button from the standby mode.

Be sure to set the **Mains ON/OFF** button to the off position, if a power failure occurs while viewing.

If you found a power indicator flashing, please turn the TV set off completely with the Mains ON/OFF switch 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.

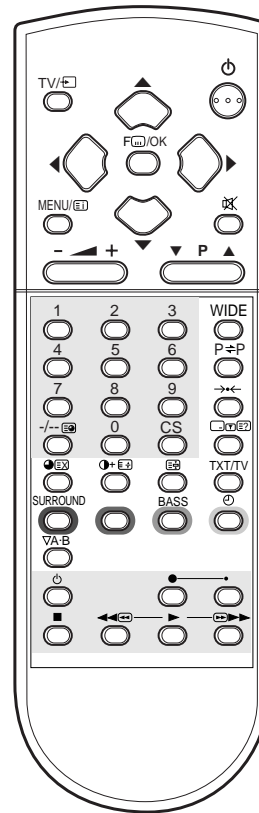
Auto Shut Off

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.

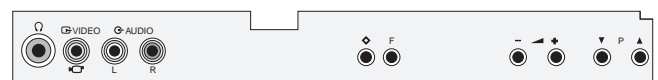


- If the aerial is removed the TV set will automatically switch into the standby mode after 10 minutes.
- When the TV set is switched on by using the On-timer function with no signal being received, the auto-shut off function will be ignored.

Controls



- P▲** Programme Up / Down
- ▲+** Level Up / Down
- power** Stand-by
- MENU/ET** Menu
- TV/AV** TV/AV Selection
- 0~9** 0 to 9 Numeric buttons
- /--** 2 Digit button
- P↔P** Alternate
- ←** Normalisation/Memory
- mute** Sound mute
- Recall
- ⊕** Black Stretch
- ⊖** Time Display
- BASS** Bass
- **TV local keyboard**
 - power** Mains ON/OFF
 - P▲** Programme Up / Down
 - ▲+** Level Up / Down
 - F** Menu
 - ◇** Memory/Normalisation
 - ↻R** Right audio
 - ↻L** Left audio
 - video** Video
 - headphones** Headphones



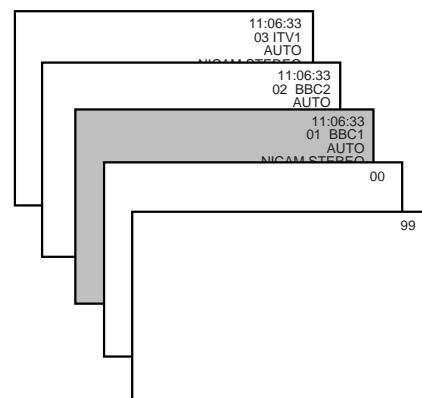
Programme Selection

Direct Programme Selection

For selection of programme position 0 to 9, press the corresponding **numeric button**. If the required programme is equal or more than 10, for example 23, first press the **-/-** button and enter **2** then **3**.

Up/Down Programme Selection

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



SOUND FUNCTIONS

Volume Adjustment

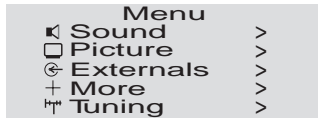
To adjust the sound volume, press the **▲ + / ▼ -** buttons.



Note : If the volume is restricted check Hotel Specification settings on page 17.

Main Menu

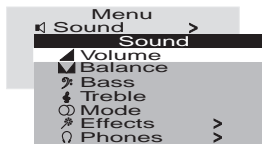
To enter and exit the main menu press the **F** button on the TV or the **Menu** button on the remote control unit.



Use the **▲** or **▼** buttons to scroll up and down between menu options. Use the **▶** button to open the sub menus and the **◀** and **▶** buttons to switch between the options. Press the **Menu** button to return to a higher level menu screen.

Sound Adjustment

Press the **Menu** button and select the **Sound** option from the Main Menu by pressing the **▲** or **▼** buttons. A sub menu will drop down when the **▶** button is pressed, providing the following options.



- Volume** : Increase the sound level output.
- Balance** : Balances the sound level between the left and right speakers.
- Bass** : Adjusts bass (low) frequencies.
- Treble** : Adjusts treble (high) frequencies.
- Mode** : Provides two or three options depending on the sound standard detected in the selected channel: **DUAL A, DUAL B, MONO, STEREO, NICAM MONO**.

Note: Balance, Bass, Treble and Volume can also be accessed by pressing the **F** /OK button.

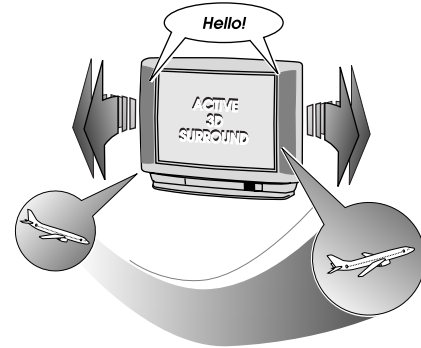
- Effects** : Select the effects option by pressing the **▲** or **▼** buttons followed by the **▶** button. This sub menu provides options enabling the adjustment of certain sound properties (see "Sound Effects"). Select sound required by pressing the **◀** or **▶** button. To select other sub menu press the **▲** or **▼** buttons. To return to the Sound Menu press the **Menu** button once.
- Headphones** : Press the **▲** or **▼** buttons. This sub menu is available only when the presence of headphone is detected. A sub menu drops down when the **▶** button is pressed, with the following options: **Volume, Balance, Bass, Treble** and **mode (*)**, with the same functions as the Sound menu described previously on this page.

To return to the main menu press the **Menu** button.

The menu display only appears on the screen for 10 seconds.

* Mode only appears if there is a dual language broadcast signal.

Sound Effects



■ Stereo Mode

Several of the following options are displayed depending on the type of broadcast, when pressing the **Surround** button or the **∇A•B** button.

PSEUDO STEREO ON/OFF : When ON, it provides a pseudo-stereo effect to mono broadcasts.

NORMAL STEREO : Switches to stereo sound if broadcast is in stereo.

SPATIAL STEREO : Enhances stereo sound when enabled.

3D SURROUND MONO : This mode is especially prepared to produce 3D Surround effects in mono broadcasts.

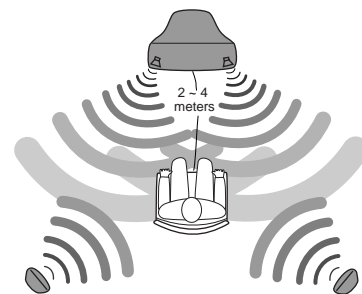
ACTIVE 3D SURROUND : Provides optimum 3D Surround effects.

SUPER 3D SURROUND : Select this mode if you wish to enhance the 3D Surround effect, e.g. when viewing movies.

NOTE : Balance will have no effect on the audible sound in any 3D surround mode, although the on screen display will still adjust.

What is Active 3D Surround?

In traditional stereo sound, left and right channels combine to create a stereo image. Better speakers can create a larger perceived sound stage, so sound seems to emanate from a few feet behind the monitor. Sound can have a much wider presence with Active 3D surround technologies. Music and sound effects appear to come from points in the room far from the speakers. Objects (such as jets) seem to move towards and then past the listener, whilst the important channel sound still appears to come from the centre of the screen.



Optimum positioning

Sit at a distance of approximately 2 to 4 meters from the TV set.

Listen facing the centre of the TV set.

Remove any obstructions between you and the TV set.

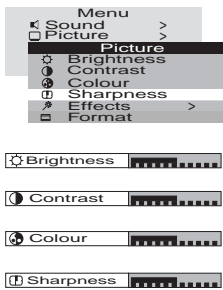
Effects

■ Bass boost : Enhances bass frequencies when enabled. This can be accessed by pressing the **BASS** button.

■ Auto Volume : Keeps steady volume when enabled.

GENERAL OPERATION

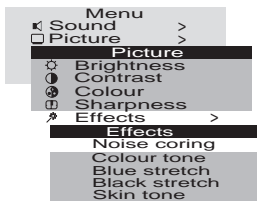
Picture Adjustment



To adjust the picture, open the Main **Menu** by pressing the **Menu button** and select **Picture** by pressing the **▲** or **▼** buttons followed by the **▶** button for sub menus. Along with the basic Brightness, Contrast, Colour and Sharpness saturation options, you will find a sub menu with other less common functions and a picture format control function.

You can have direct access to the following picture controls, Brightness, Contrast, Colour and Sharpness by pressing the **F** button/ **OK button** repeatedly.

Picture Effects



- **Noise Coring** : Can be enabled or disabled (**ON/OFF**). When enabled, it eliminates "fuzz" on the picture.
- **Colour Tone** : Three colour tones can be selected, corresponding to "normal", "warm" or "cold" colour ranges.



Blackstretch
OFF



Blackstretch
ON

- **Blue Stretch** : Can be enabled or disabled (**ON/OFF**). When enabled, it increases the proportion of blue on white picture tones.
- **Black Stretch** : Can be enabled or disabled (**ON/OFF**). When enabled, it darkens the grey areas of the screen, this can be changed in normal TV mode by pressing the **⊕** button.
- **Skin Tone** : Can be enabled or disabled (**ON/OFF**). When enabled, it corrects skin tones providing more natural colours.

Picture Format

This television can make the most of the range of picture formats now being transmitted. Many programmes are now being transmitted in Wide formats 14:9 or 16:9 and films in wider formats known as Letterbox whilst many programmes are the traditional 4:3 picture ratio.

It is possible to identify that the transmission is 4:3, Letterbox or Wide screen format (14:9 or 16:9), but it is difficult to tell the difference between 16:9 and 14:9.

You may choose to leave your Picture Format as Auto, your television will automatically fill the screen, but this may not always give you what you want. If so you can select from a range of picture formats. You can select the Picture Format option either through the Menu screen or by pressing the **Wide button**.

Picture Format by Menu

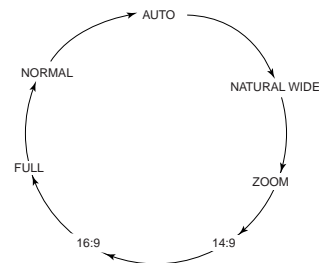
Press the **Menu button**, use the **▲** or **▼** buttons to highlight Picture, press the **◀** and **▶** buttons to select, press the **▲** or **▼** buttons to highlight Format, press the **◀** and **▶** buttons to select the format required.



Picture Format by pressing the Wide button

Press the **Wide button** repeatedly to select the different formats.

The format changes as follows:



Wide Screen Signalling (WSS)

Your television will automatically select the correct picture format if the transmission source is transmitting the WSS signal e.g. a DVD player or digital TV decoder.

The WSS signal can be overridden by manually selecting the Picture Format.

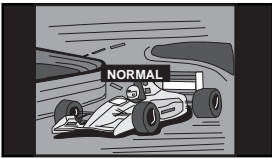
Note : When you switch on your TV set the picture format will be AUTO.

Note : When in AUTO your picture may change especially when adverts appear. Many adverts are in a different transmission format to the programme.

GENERAL OPERATION

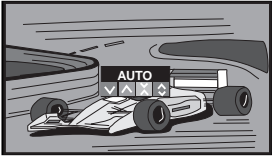
4:3 Transmission Reception

NORMAL



You will see a black bar, left and right. The viewing ratio is correct, this is how the transmission was intended for viewing.

AUTO

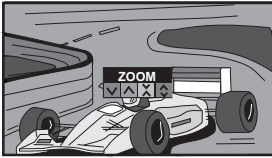


This automatically stretches the picture so that it fills the width of the screen. This gives a distorted picture where objects appear squashed.

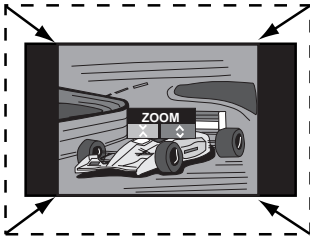
NATURAL WIDE

FULL

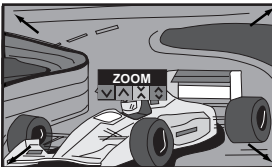
ZOOM



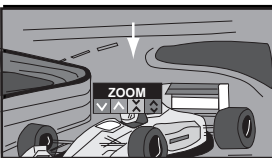
This automatically zooms into picture (all the arrows relating to the coloured buttons are black). The picture is stretched and enlarged so that the edges of the picture are missing.



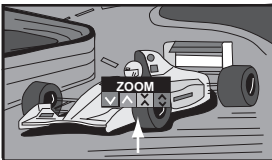
Whilst **Zoom** is displayed press the **yellow button**, more of the top and bottom become visible, and eventually the picture is as the Normal format. Note the arrows turn blue and at this point the Red and Green buttons become inoperative.



Whilst **Zoom** is displayed press the **Blue button**, the picture zooms in even more. Note the arrows turn blue.

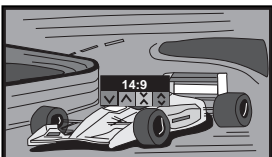


Whilst **Zoom** is displayed press the **Red button**, the centre of the picture moves down. Note the arrows turn blue.



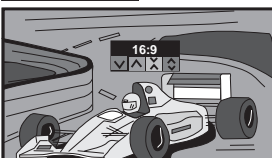
Whilst **Zoom** is displayed press the **Green button**, the centre of the picture moves up. Note the arrows turn blue.

14:9



This automatically stretches the picture so that it fills the width of the screen and loses some of the top and bottom in a 14:9 ratio. This gives a distorted picture where objects appear squashed. Subtitles may disappear use the coloured buttons to move or scale the picture to see them.

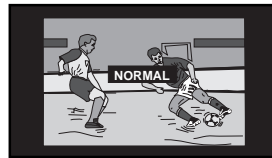
16:9



As 14:9 but the image is even more squashed because of the width being stretched even more.

14:9/16:9 Transmission Reception

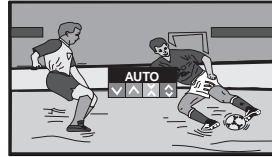
NORMAL



You will see a black bar, left, right, top and bottom. The viewing ratio is correct.

AUTO

FULL



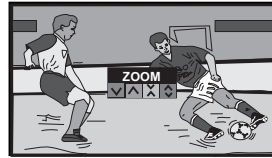
These formats fill the width with the whole picture and stretch the height to fit.

NATURAL WIDE

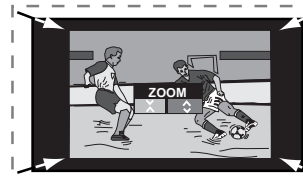


You will see a black bar top and bottom. The width of the picture is correct but the picture is squashed vertically.

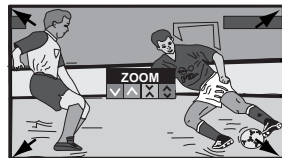
ZOOM



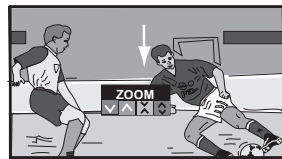
This automatically zooms into picture (all the arrows relating to the coloured buttons are black). The picture is stretched and enlarged so that the edges of the picture are missing.



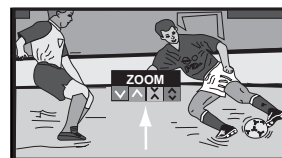
Whilst **Zoom** is displayed press the **yellow button**, more of the top and bottom become visible, and eventually the picture is as the Normal format. Note the arrows turn blue and at this point the Red and Green buttons become inoperative.



Whilst **Zoom** is displayed press the **Blue button**, the picture zooms in even more. Note the arrows turn blue.

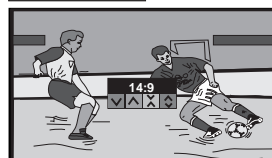


Whilst **Zoom** is displayed press the **Red button**, the centre of the picture moves down. Note the arrows turn blue.



Whilst **Zoom** is displayed press the **Green button**, the centre of the picture moves up. Note the arrows turn blue.

14:9



Correct viewing ratio for 14:9 transmission filling the screen. A 16:9 transmission will have correct width but some of the top and bottom of the picture may be missing.

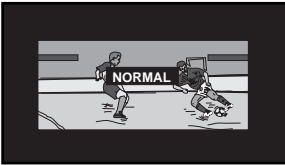
16:9



Correct viewing ratio for 16:9 transmission filling the screen. A 14:9 transmission will have correct width but a black bar top and bottom of the picture may be present.

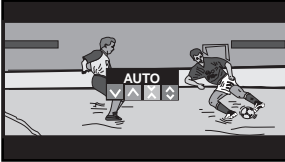
Letterbox Transmission Reception

NORMAL



You will see a black bar, left, right, top and bottom. The viewing ratio is correct, this is how the transmission was intended for viewing.

AUTO

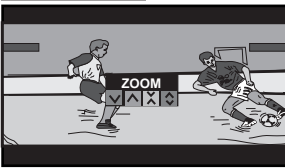


You will see a black top and bottom. The viewing ratio is correct, this is how the transmission was intended for viewing.

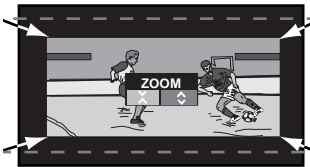
NATURAL WIDE

FULL

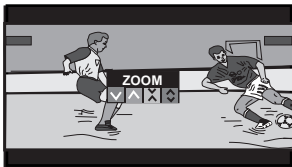
ZOOM



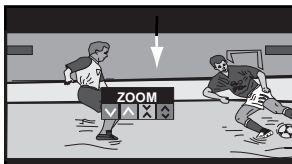
This automatically zooms into picture (all the arrows relating to the coloured buttons are black). The picture is stretched and enlarged so that the edges of the picture are missing.



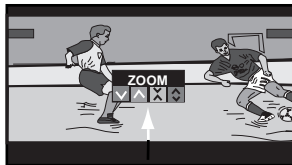
Whilst *Zoom* is displayed press the **yellow button**, more of the top and bottom become visible, and eventually the picture is as the Normal format. Note the arrows turn blue and at this point the Red and Green buttons become inoperative.



Whilst *Zoom* is displayed press the **Blue button**, the picture zooms in even more. Note the arrows turn blue.

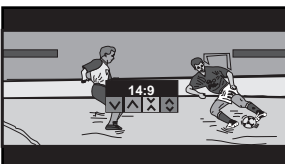


Whilst *Zoom* is displayed press the **Red button**, the center of the picture moves down. Note the arrows turn blue.



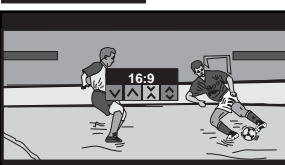
Whilst *Zoom* is displayed press the **Green button**, the center of the picture moves up. Note the arrows turn blue.

14:9



This automatically stretches the picture so that it fills the width of the screen in a 14:9 ratio. This gives a distorted picture where objects appear squashed.

16:9



As 14:9 but the image is even more squashed because of the width being stretched even more.

OTHER FUNCTIONS

Externals Menu

This menu includes options referring to SCART connections.

■ **Audio 1 OUT/Audio 2 OUT** : If your TV set receives a Dual broadcast signal, this menu allows you to select the desired audio output for the relevant connector situated at the rear of the set.

For instance, if a hi-fi system is connected to the TV set, the selection results would be as follows:

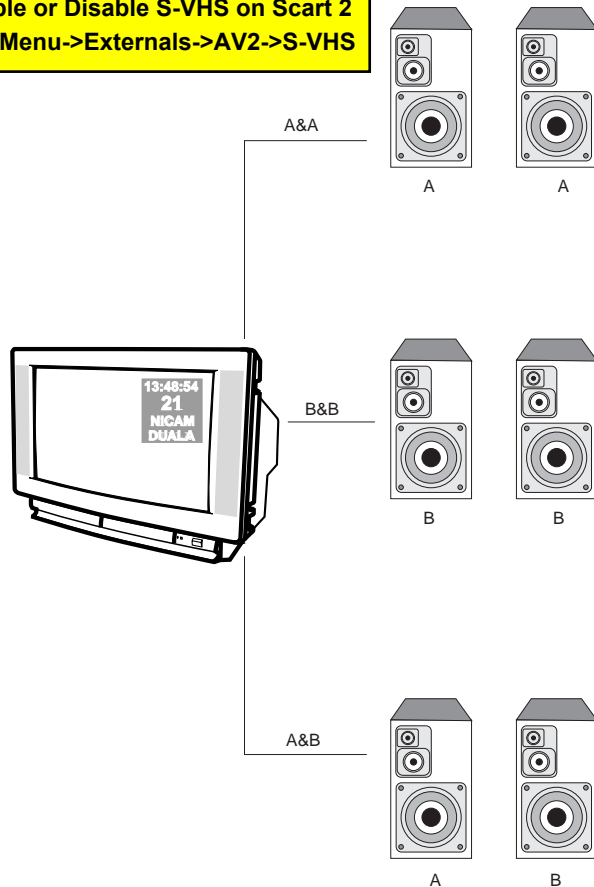
A & A : You hear the language broadcast on channel A on both speakers.

B & B : You hear the language broadcast on channel B on both speakers.

A & B : You hear each language broadcast A on speaker A and language broadcast B on speaker B.

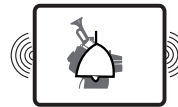
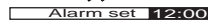
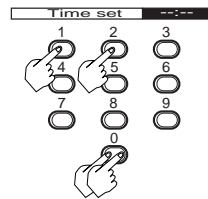
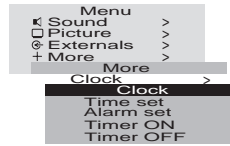
■ **S-VHS Video** : If you have an S-VHS video cassette recorder, you will obtain optimum picture quality by connecting it to the AV2 connector with an appropriate cable and enabling this option.

**To Enable or Disable S-VHS on Scart 2
Access Menu->Externals->AV2->S-VHS**



More Menu

Access the Main **Menu** and select **More**, the following options appear:



■ **Clock** : This sub menu allows you to set the clock, alarm and timers.

Only the remote control unit numeric keys are valid for these functions.

You must always enter four digits when setting the time in hours and minutes (hh:mm).

Any of the four options in this sub menu can be reset by pressing the **◀** button.

■ **Time Set** : Lets you check or set the current time, which is kept current if the TV set is not turned off using the mains ON/OFF switch.

The time is automatically set if there is a teletext signal. If there is not a text signal or that time is incorrect you can enter the time manually using the numeric buttons e.g. for 8.30 am enter 0830, for 8.30 pm enter 2030. A manually set time is only cancelled when the TV is switched off with the Mains On/Off button, and overrides the teletext signal.

■ **Alarm Set** : Using the remote control unit numeric keys, you can set the TV alarm function. When the alarm is enabled a sequence of beeps is heard, gradually increasing in volume.

To stop the alarm, press any button on the remote control unit.

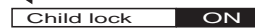
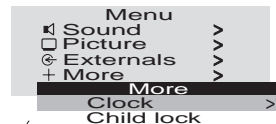
■ **Timer On** : This sub menu lets you set the time you want the TV set to turn on when in Standby mode, using the remote control unit numeric keys to set the time.

■ **Timer Off** : This sub menu lets you set the time you want the TV set to switch into Standby mode, using the remote control unit numeric keys to set the time.

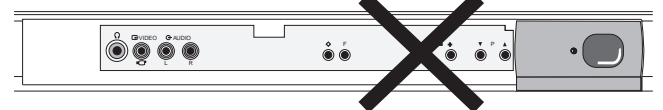
The red pilot light turns soft green if the Alarm or Timer Off options are enabled and the TV set is ON.

The red pilot light turns bright green if the Alarm or Timer On options are enabled and the TV set is in Standby mode.

Child Lock



■ **Child Lock** : Can be enabled or disabled (ON/OFF). When enabled, it locks out all local keypad operations.



PRESETTING

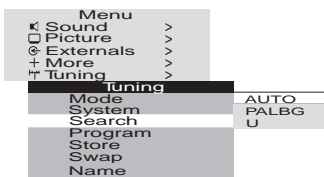
Up to 100 broadcast stations in your reception area can be stored in the electronic memory. There are three ways to preset these channels:

- **AUTO** : Searches automatically storing found channels in consecutive programme positions.
- **SEMI** : Searches for channels one at a time automatically locking into strong signals.
- **MANUAL** : Searches for channels one at a time manually selecting any signal found even if weak.

Searching for Channels in Auto Mode

The TV set automatically searches and stores all locally accessible channels.

Press the **Menu button** and using the **▲** or **▼** buttons highlight the Tuning menu, press the **▶** button to access the tuning menu. Use the **▲** or **▼** buttons to highlight Mode, press the **▶** button until AUTO appears. Press the **▼** button to highlight Search and press the **▶** button to start searching.



The TV starts searching and storing all available channels, use the "rearranging channels setting" to reposition the stored location of each channel to your preferred programme positions e.g. BBC1 to position 1.

Searching Channels in Semi Mode

The TV set searches for channels one at a time automatically locking into strong signals.

Press the **Menu button** and using the **▲** or **▼** buttons highlight the Tuning menu, press the **▶** button to access the tuning menu. Use the **▲** or **▼** buttons to highlight Mode, press the **▶** button until SEMI appears. Press the **▼** button to highlight Search and press the **▶** button to start searching. When a signal is found searching stops and the screen display reads AFT. You can now choose to store this channel or to search again.

To Store the channel

Press the **▼** button to highlight Program, enter the programme position where you wish to store the channel using the numeric buttons e.g. to store at position 2 press 0 then 2.

Program 02

Name

Name

Name

Store Confirm

Store Stored

Press the **▲** or **▼** button until Name is highlighted you can enter some channel information e.g. ITV. To enter press the **▶** button the first digit is highlighted, press the **▲** or **▼** buttons to select the character you require (A-Z, !, ", £, \$, %, &, ', (,), *, +, ,, -, /, 0-9), press the **▶** button to select the second digit, continue to enter for up to 5 digits. Press the **▶** button so that no digit is highlighted, press the **▼** button until Store is selected, the word Confirm appears, press the **▶** button and the word changes to Stored.

To Search for another channel

With Search still highlighted press the **▶** button again until another channel is found. When you have searched for and stored all the channels press the **Menu button** twice to leave the Main Menu.

Searching Channels in Manual Mode

The TV manually searches for any signal even if weak.

Press the **Menu button** and using the **▲** or **▼** buttons highlight the Tuning menu, press the **▶** button to access the tuning menu. Use the **▲** or **▼** buttons to highlight Mode, press the **▶** button until MANUAL appears. Press the **▼** button to highlight Search then press and hold the **◀** or **▶** button to start searching. (<< or >> indicates it is searching but no strong signal is nearby, < or > indicates a signal is being detected, >< indicates the signal is strong, release the button when the best picture appears.

You can now choose to store this channel or search again. Please refer to Storing and searching channels in the Semi Mode.

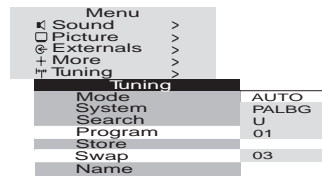
Rearranging Channel Settings

Swap --

Having accessed the Tuning sub menu press the **▲** or **▼** buttons to highlight Swap. Enter the channel number you wish to store the station at using the numeric buttons e.g. to store at program position 12 enter 1 then 2.

The word confirm appears, press the **▶** button and the programme positions are swapped.

Swap 02 Confirm



Other Tuning Menu Options

- **System**: This menu informs you of the broadcast standard that has been detected.

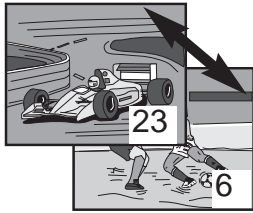
System PAL

Note : If the tuning menu is not present check the Hotel Specification setting on page 17 as it may be disabled.

OTHER FUNCTIONS

Alternative Program

Press the **P⇄P** button and the TV set will alternately select the current programme position and the previous programme position viewed.



Contrast LEVEL? (1-3)



Contrast STORED USER LEVEL 1

You must now select which User level setting to store these settings, by pressing the numeric button 1, 2 or 3.

Restoring the saved settings

Press the **→•←** button repeatedly to restore either Normal level (Factory settings), User level 1, User level 2 or User level 3.



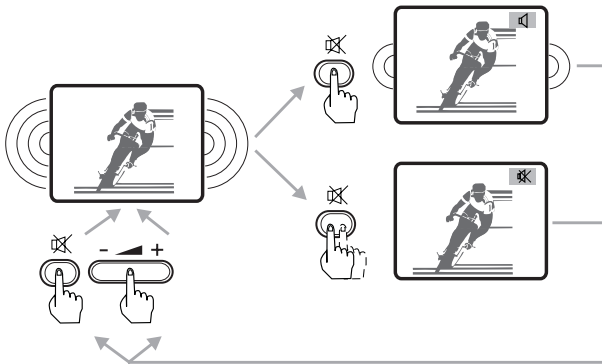
Note : Settings cannot be restored while a picture setting is displayed on-screen.

Mute

This function has two sound mute stages. Press the **Mute** button once, the sound from the speakers will be reduced, press it again and it will be muted completely.

Press the **Mute** button again to switch the sound back on.

When the **▲ + / ▼ -** button is pressed, the sound mute is cancelled.

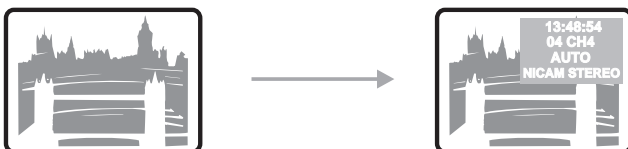


Time Display

In the TV mode, if the receiving programme has a teletext service when the **⌚** button is pressed, the present time will be displayed on the screen for 5 seconds.

Recall

Press the **⏏** button once, the programme information such as current programme number, stereo status, picture format, remaining timer if set.



Store/Restore Default Settings

The following function levels can be altered and then stored as user level default settings, Brightness, Contrast, Colour and Sharpness. You can store 3 different user levels which can be recalled at a later date.



Contrast

Using the **Menu** button or the **F** / **OK** button select a Picture setting eg. Contrast. Adjust the level using the **▶** button and whilst the display is still on the screen press the **→•←** button.

CONNECTION OF AV EQUIPMENT

Connectors Located on the Rear of the TV Set

The rear of the set includes the antenna input line and two SCART or Euro connector connections, with some common features and other features that are unique to each connector.

Common Features:

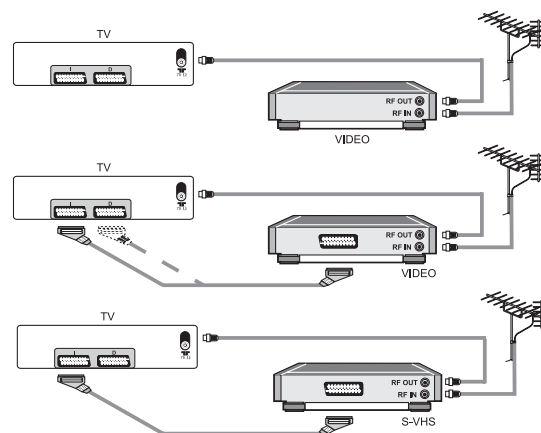
- Video signal (CVBS) and stereo audio signal input.
- Automatic switching when VCR is in "PLAY" mode, as well as auto selection of 4/3 or 16/9 format if the VCR provides this feature.
- Audio output channel selection in Dual broadcasts (A&A, B&B or A&B).

Right Euroconnector:

- Input: RGB signal type.
- Output: Always matches antenna input signal.

Left Euroconnector:

- Input: SVCR format signal.
- Output: Always matches signal shown on screen, which can come from the antenna or any other input.



Connectors Located on the Front of the TV Set

This TV set has a number of connectors providing optimum connection of the TV set to a wide range of peripherals. Keep in mind that the use of the appropriate connecting cable is essential for good results.

- **Stereo Headphone Jack** The Sound menu provides a specific set of sound control options (Volume, Balance, Bass, Treble) that are available only when the TV set detects that headphones are actually plugged into the set.

When the set receives a Dual language broadcast another option (mode) will appear. This allows you to select which language you want to hear by changing between Dual A and Dual B. (see page 10).

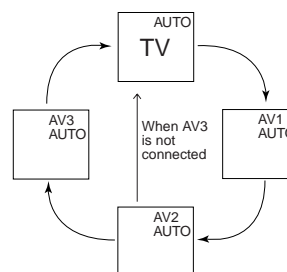
AV3 Front RCA Sockets

Behind the flap on the front of the TV are located 3 RCA input sockets. These are as follows :

- Yellow : Video Input
- White : Audio (L) Input
- Red : Audio (R) Input

AV3 mode is not available until a plug is inserted into the yellow (Video) socket. If you wish to only use these sockets for an audio input you must still fit a dummy plug into the Video Socket. If only one sound channel (mono) is available, plug this into the white (Audio L) socket.

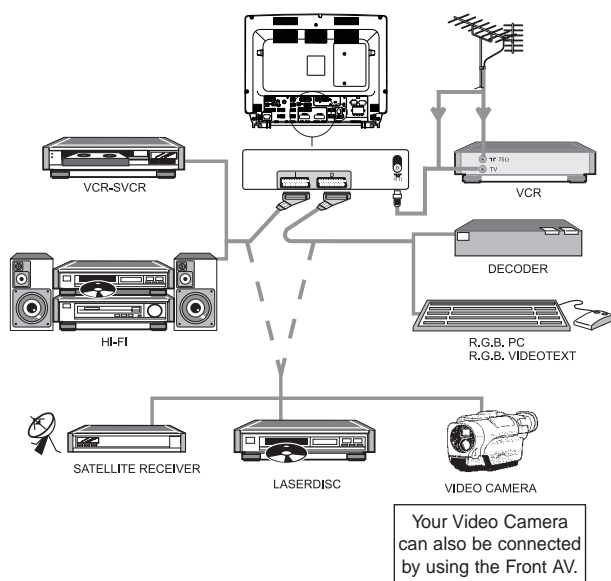
When the **TV/AV** button is pressed the mode changes as follows.



Press the button to select the mode you require.

Note : Most equipment connected via AV1 or AV2 will automatically switch the TV to AV mode when the play button is pressed.

Note : AV3 mode cannot be selected if no plug is inserted into the AV3 white (Video) socket.



Connecting a VCR

There are two possibilities:

- **Via the antenna jack:** In this case you must tune the VCR channel.

Select the test pattern screen (check your VCR User's Manual to see how to do this) and tune the channel. Use of the Semi tuning mode is advisable (see "Presetting" on page 11).

Drawbacks:

- Lower picture and sound quality during playback.
- Cannot play back in stereo.

Via Euroconnector: Advantages:

- Better picture and sound quality.
- Stereo sound can be played back.

- If you have an S-VHS video cassette recorder, connect it to the left Euro connector. For viewing, make sure you have the Connections menu option enabled (see "Externals Menu" on page 10).

VCR USE / OPERATING THE TV WITHOUT THE REMOTE CONTROL

Functions for Video cassette

This remote control transmitter has been designed to be used in conjunction with selected **SANYO VCR's**. Some SANYO VCR's may have their own functions, so please refer to the individual instruction booklet when using this remote control to ensure compatibility.

⏻ POWER On/Off :

Use to turn VCR power on and off.

▶ PLAY :

Use to playback the tape.

■ STOP :

Use to stop the movement of the tape.

▶▶ FAST/CUE :

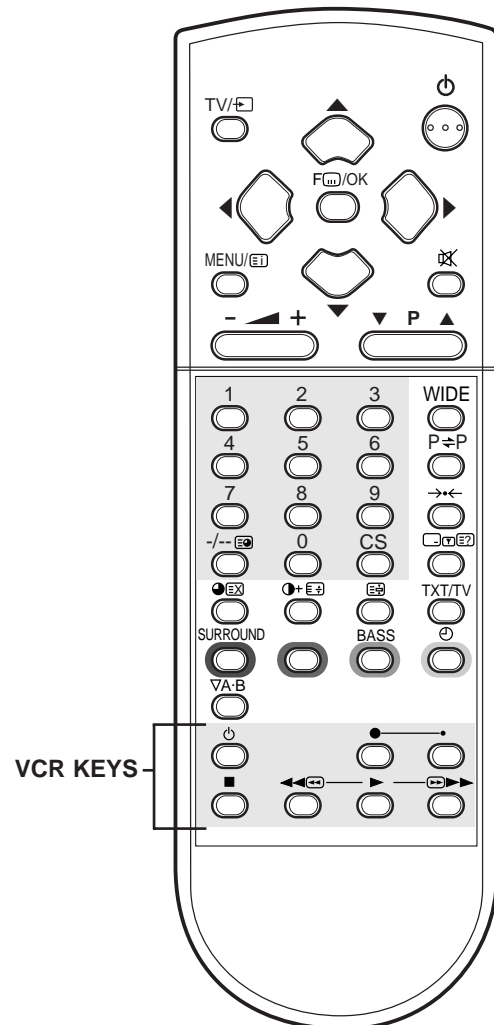
Use to advance the tape at fast speed, or in order to playback the tape at fast speed.

◀◀ REWIND/REVIEW :

Use to rewind the tape or in order to playback the tape in reverse at fast speed.

●—● RECORD :

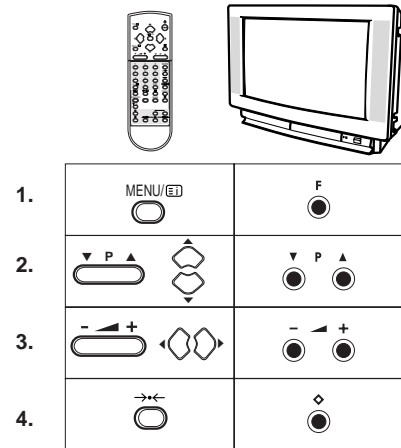
Keep the two buttons pressed down to begin video recording.



Operating the TV Without the Remote Control

The main TV functions can be operated by using the local keypad situated on the bottom front of the set.

The keys on the keypad are directly related to the corresponding buttons on the remote control unit.

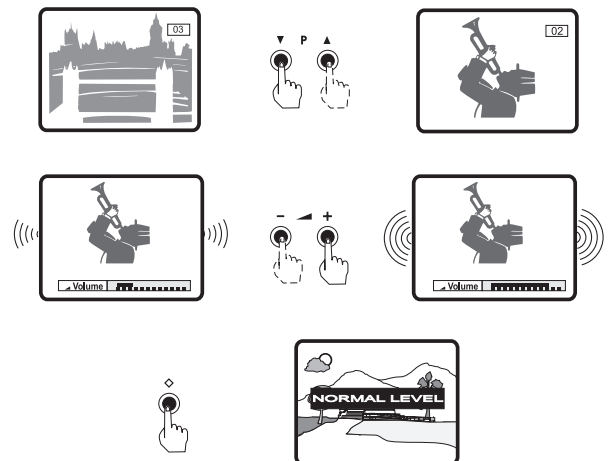


1. Key equivalences for navigating screen menus.

2. Switching channels.

3. Adjusting the volume.

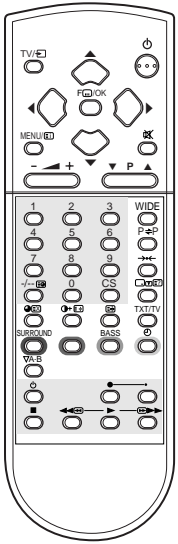
4. Storing/restoring defaults. The local keypad key () performs the same functions as the same remote control button (→◀).



TELETEXT

This TV accepts TXT signals until 1.5 level in Flof and Top modes. The internal memory can store 8 pages, that allows an agile access to the information.

Teletext Controls



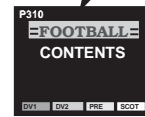
Symbol	Function
TXT/TV	Teletext/Mix/TV mode switch
0-9	0-9 numeric buttons
P▼ P▲	Page down/up
P⇌P	Previous viewed page selection
	Index page selection
	Hold
	Size
	Cancel
	Sub code entry mode
	Reveal
	Red
	Green
	Yellow
	Blue

Coloured Page Access

When a television station provides the FLOF service, you can access the pages more easily. At the bottom of the screen four headings are displayed on red, green, yellow, cyan. Access these headings by pressing the button with the corresponding colour button on the remote control transmitter.

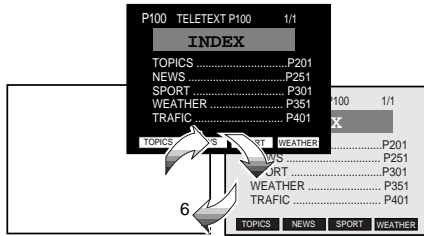


Red Green Yellow Blue



Switching to the Teletext mode

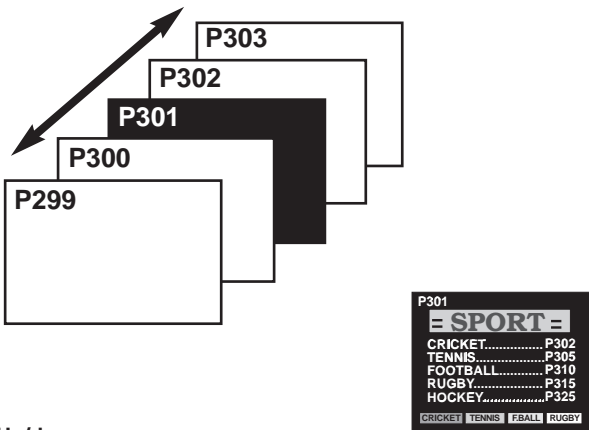
Press the **TXT/TV** button, and the screen changes as illustrated.



Page Selection

■ Direct page access

A page can be selected with the **0-9 Numeric buttons**. eg. To display page 301, press buttons 3, 0 and then 1. The selected page number will appear on the screen.



■ Up/down page access

When a page is displayed on the screen and you want to read the following page number, press the up (**▲**) button instead of selecting the new page number. To read the previous page, press the down (**▼**) button.

P▲ : P301 → P302 → P303 P399 → P400

P▼ : P301 → P300 → P299 → P298P201

TELETEXT

Index Page Selection

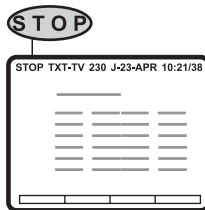
Press the **INDEX** button to select one of the teletext index pages.



Stop

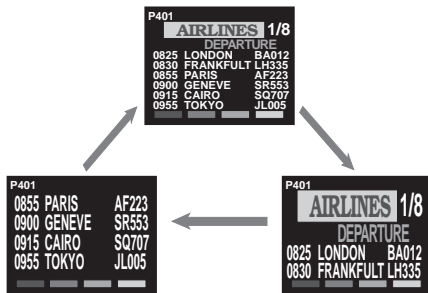
Press the **STOP** button to stop sub pages changing. The word "STOP" will appear instead of the page number.

Some teletext pages are made up of several sub pages. These sub pages are automatically changed. Sub page is shown as P4/8 (sub page 4 of 8 pages) the location on the text page depends on the text service.



Double Letter Height

Either the top half or the bottom half of the page can be expanded to fill the whole screen by pressing the **DOUBLE LETTER HEIGHT** button. Each time the button is pressed, the display changes as illustrated.



Sub Page Access

When the teletext information is longer than one page, it may take some time to reach the required page which is automatically changed. By using the sub-coded page access, you can continue watching the TV picture until the sub-page is reached. Select a teletext page with sub pages.

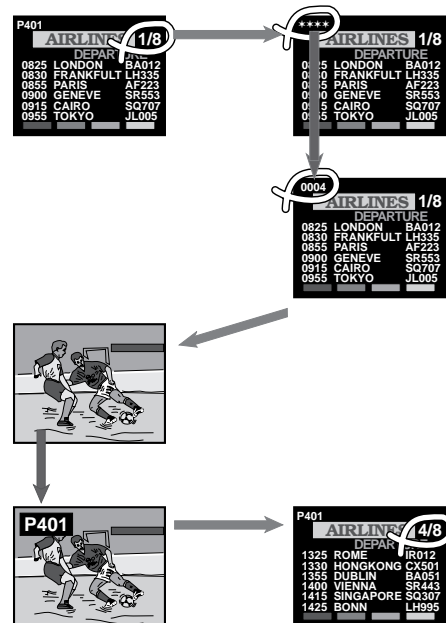
1. Press the ********* button. The characters "****" will be displayed on the top left corner of the screen.
2. Enter the sub page number by using the (0-9) buttons.

For example, to enter the sub page 4, press buttons 0, 0, 0 and 4.

3. Press the **EX** button to return the normal TV picture.

Immediately the requested sub-coded page is found, the page number will appear over the TV picture.

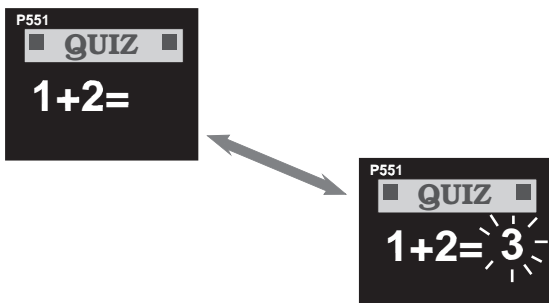
4. Press the **EX** button to view the sub-coded page.



Displaying Concealed Information

Press the **CONCEAL** button to reveal hidden items on the text page.

Some pages such as quiz pages have the answers hidden. The button may have to be held to keep the answer on the screen, or pressed again to remove the answers.

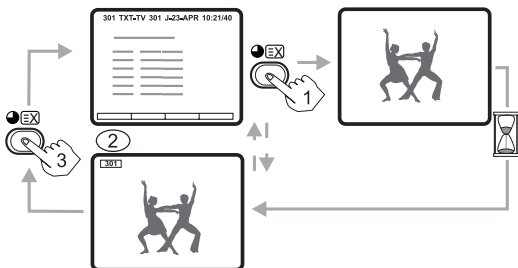


TELETEXT / HOTEL SPECIFICATIONS / SPECIFICATIONS

Viewing TV while searching for a page

Sometimes the page access can take some time. While waiting you can view the television picture by pressing the **EX** button.

1. Enter the new page number. Press the **EX** button.
2. When the page is found, the page number will appear over the television picture.
3. Press the **EX** button again, to view the teletext page.



Hotel Specification

A special two digit code controls special conditions for Hotel and Rental use.

The first digit controls presetting, Childlock and Maximum volume. The second digit controls the start up programme position.

The first digit has 3 options 0, 1, 2

- 0 = Normal operation, presetting enabled
- 1 = Hotel presetting is disabled
- 2 = Hotel/Rental, presetting is disabled, Child Lock is always on, the current volume at time of setting becomes the maximum volume level.

The second digit has 10 options 0-9

- SET→ 0 Last programme position start
- SET→ 1 Programme position "1" start
- SET→ 2 Programme position "2" start
- SET→ 3 Programme position "3" start
- SET→ 4 Programme position "4" start
- SET→ 5 Programme position "5" start
- SET→ 6 Programme position "6" start
- SET→ 7 Programme position "7" start
- SET→ 8 Programme position "8" start
- SET→ 9 "AV1" position start

How to enter your code

For example, you wish to prohibit presetting and start up in AV1 mode, you must enter the code 19. Whilst pressing the **▲** - button on the TV set, press the **EX** button on the remote control handset. The Hotel display appears on the screen.

HOTEL: 0 0

Enter the code you require e.g. 19 using the numeric buttons 1 and 9. When you next switch on the TV set these conditions will apply.

HOTEL: 1 9

Changing from Hotel Codes 20-29

You must first reduce the colour to minimum before entering a new Hotel code. Switch off the TV with the **Mains On/Off** button and then switch on, the code is activated. Press the **→←** button to restore the picture settings.

TV Specifications

Power source	AC 220~240V, 50Hz
Television system	System I
Colour system	PAL
Receiving channel	UHF: 21~69
Aerial input impedance	75 ohm
AV terminal	
21-Pin Terminal	AV1 : CENELEC Standard (with RGB/S-inputs) AV2 : CENELEC Standard
Sound output Main L/R	10 watts x 2
Dimensions (W x H x D mm)	780 x 526 x 513 (CE28WN3-B) 880 x 583.5 x 567.5 (CE32WN3-B)
Weight	32 Kg (CE28WN3-B) 46 Kg (CE32WN3-B)

Specification subject to change without notice.

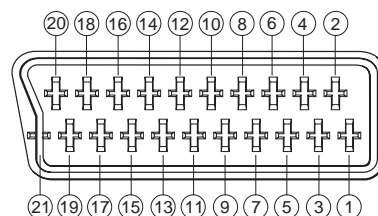
Scart Specifications

The specification of the 21 pin connector is as follows.

AV1 Terminal

Pin		
1	Audio output	0.5V/ 1 K ohm
2	Audio Input	0.5V/10 K ohm
3	Audio output	0.5V/ 1 K ohm
4	Audio earth	
5	Earth (blue)	
6	Audio Input	0.5V/10 K ohm
*7	Blue (B) input	0.7Vpp/75 ohm
8	Remote switch input	L:0-2V, 16/9:4.5 to 7V, 4/3:9.5 to 12V H:10-12V
9	Earth (green)	
*10		
*11	Green (G) input	0.7Vpp/75 ohm
*12		
13	Earth (red)	
14	Earth	
15	Red (R) *1 or chrominance input	0.7Vpp/75 ohm
*16	Fast blanking	L:0-0.4V H:1-3V
17	Earth(video)	
18	Earth	
19	Video output	1 Vpp/75 ohm
20	Video/sync. or luminance input	1 Vpp/75 ohm
21	Connector shield	

*Not connected on AV2 terminal



SERVICING & HELPFUL HINTS

Servicing

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

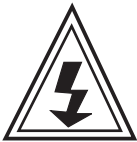
Removal of the cabinet cover may expose you to dangerous voltages. Refer all servicing to qualified service personnel.

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.

When replacement parts are required, have the service technician verify that the replacements he uses have the same safety characteristics as the original parts. Use of manufacturers specified replacements can prevent fire, shock or other hazards.

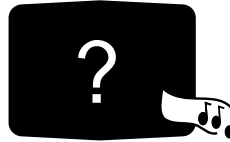


Helpful Hints



■ 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

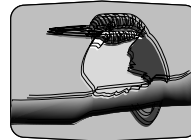
- Adjust COLOUR control.
- Adjust FINE TUNING control.
- Is the programme in colour ?



■ 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.

Recommendations to protect our environment

Stand-by mode: In order to save energy and to maintain an optimum picture quality, it is advisable to switch off the TV using the ON/OFF button located at the front of TV set.

Used batteries: The batteries in the remote control of your TV set do not contain mercury. However, SANYO recommends that you do not dispose of used batteries in domestic refuse. Please, contact your dealer or your local authorities for information regarding the disposal of used batteries or your nearest collection point.

Recommendation about the end-of-life: Your SANYO TV set has been designed and manufactured using high quality materials which can be recycled and reused. In the future, when the life cycle of this set comes to an end, specialised companies can disassemble it and reuse certain materials. This reduces the impact of waste in our environment. Please, contact your local authorities for information regarding the disposal of your set when the time arrives. Help us to conserve the environment we live in!

WARRANTY TO CUSTOMER

Sanyo U.K. Sales 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 inguarantee 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 Departments,
Sanyo U.K. Sales Ltd.,
Sanyo House,
Otterspool Way,
Watford, Hertfordshire WD2 8JX
Tel: 01923 246363

Part No. SKP10179-B F7HS/YS



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