



LCD Colour Television **OWNER'S MANUAL**

Please read this manual carefully before operating your set.
Retain it for future reference.
Record serial number of the set.
See the label attached on the back cover and quote this information to your dealer when you require service.

Model number :

Serial number :

FOR THE GUARANTEE TERMS & CONDITIONS,
PLEASE REFER TO INSIDE BACK COVER OF THIS MANUAL.

P/NO : 3828TUL229B(1EA)

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Power

This set operates on an AC mains supply, the voltage is as indicated on the label on the back cover. Never apply DC power to the set. In the event of thunderstorms or power-cuts, please pull out the aerial and mains plugs.

Warning

To prevent fire or shock hazard, do not expose the set to rain or moisture.

Wiring

This set is supplied with a BS 1363 approved 13 amp mains plug, fused at 5 amp. When replacing the fuse always use a 5 amp BS 1362, BSI or ASTA approved type. Never use this plug with the fuse cover omitted. To obtain a replacement fuse cover contact your dealer or "LG Electronics U.K. Ltd."

If the type of plug supplied is not suitable for the mains sockets in your home, then the plug should be removed and a suitable type fitted. Please refer to the wiring instructions below:

A mains plug removed from the mains lead of this set must be destroyed. A mains plug with bared wires is hazardous if inserted in a mains socket.

Do not connect either wire to the earth pin, marked with the letter E or with the earth symbol or coloured green or green and yellow.

If any other plug is fitted, use a 5 amp fuse, either in the plug, or at the distribution board.

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

BLUE: NEUTRAL

BROWN: LIVE

As the colours of the wires in the mains lead of this set

may not correspond with the coloured marking identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

Service

Never remove the back cover of the set as this can expose you to very high voltage and other hazards. If the set does not operate properly, unplug it and call your dealer.

Aerial

Connect the aerial cable to the socket marked on the back cover. For the best reception an outdoor aerial should be used.

Location

Position your set so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the set to any unnecessary vibration, moisture, dust or heat. Also ensure that the set is placed in a position to allow a free flow of air. Do not cover the ventilation openings on the back cover.

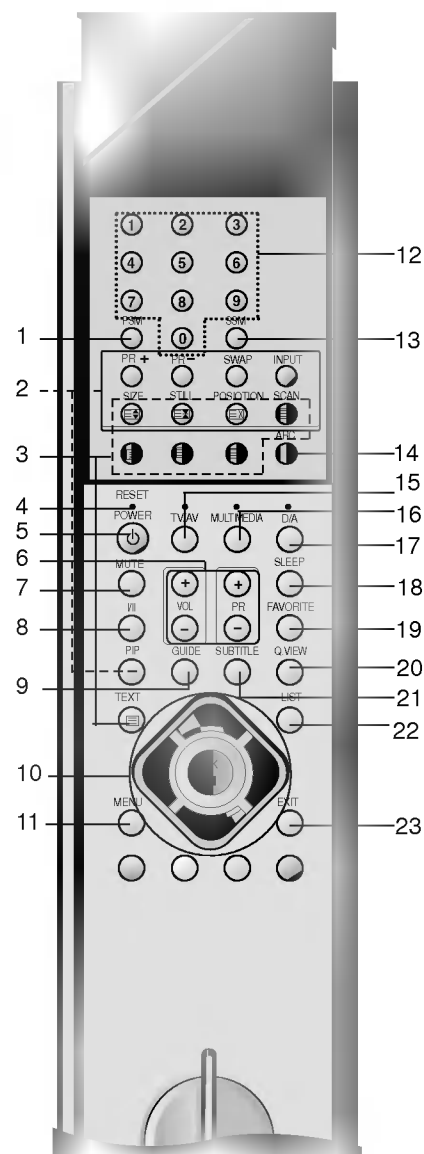
Cleaning

Before cleaning, please disconnect from the mains. Dust the set by wiping the screen and the cabinet with a soft, clean cloth.

Manufactured under license from Dolby Laboratories. "Dolby" "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories.

Remote control handset Controls

- All the functions can be controlled with the remote control handset.
- Some functions can also be adjusted with the buttons on the front panel of the set.



- PSM (Picture Status Memory)**
recalls your preferred picture setting.
- PIP BUTTONS**
PIP
switches the sub picture on or off,select PIP or DW modes.
PIP PR +/-
selects a programme for the sub picture.
SWAP
alternates between main and sub picture.
INPUT
selects the input mode for the sub picture.
SIZE
adjusts the sub picture size.
POSITION
moves the sub picture to ▲ / ▼ or ◀ / ▶ direction.
STILL
freezes motion of the sub picture.
SCAN
switches on the programme scan mode through 3/12 sub pictures and 9 main pictures.
- TELETEXT BUTTONS (option)**
These buttons are used for teletext.
For further details, see the 'Teletext' section.
- RESET**
When Communicator does not work, reset the Communicator by pressing the reset point with sharp one.
- POWER**
switches the set on from standby or off to standby.
- VOL +/- (Volume Up/Down)**
Increases/decreases sound level.
PR +/- (Programme Up/Down)
selects a programme.
- MUTE**
switches the sound on or off.
- I/I**
selects the language during dual language broadcast.
selects the sound output (option).
- GUIDE**
shows a programme schedule.

Remote control handset Controls / Internal generator charge

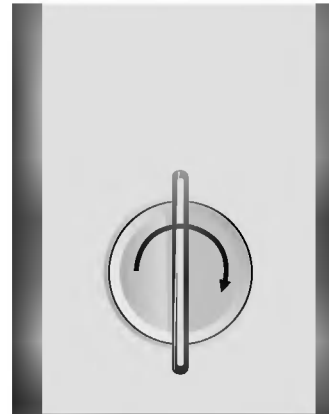
- 10. **OK**
accepts your selection or displays the current mode.
▲ / ▼ or ◀ / ▶
Adjusts menu settings.
Selects menu item.
- 11. **MENU**
selects a menu.
- 12. **NUMBER BUTTONS**
switches the set on from standby and selects a programme.
- 13. **SSM (Sound Status Memory)**
recalls your preferred sound setting.
- 14. **ARC (Aspect Ratio Control)**
changes the picture format.
- 15. **TV/AV**
selects TV or AV mode.
clears the menu from the screen.
switches the set on from standby.
- 16. **MULTIMEDIA**
selects Component or PC mode.
- 17. **D/A (Digital TV / Analogue TV)**
selects digital or analogue mode.
- 18. **SLEEP**
sets the sleep timer.
- 19. **FAVORITE**
- 20. **Q. VIEW**
returns to the previously viewed programme.
selects a favourite programme.
- 21. **SUBTITLE**
recalls your preferred subtitle in digital mode.
- 22. **LIST**
displays the programme table.
- 23. **EXIT**
Returns to TV viewing form any menu.

Internal generator charge

The communicator can be charged with the internal electric generator. To charge the communicator do the followings;

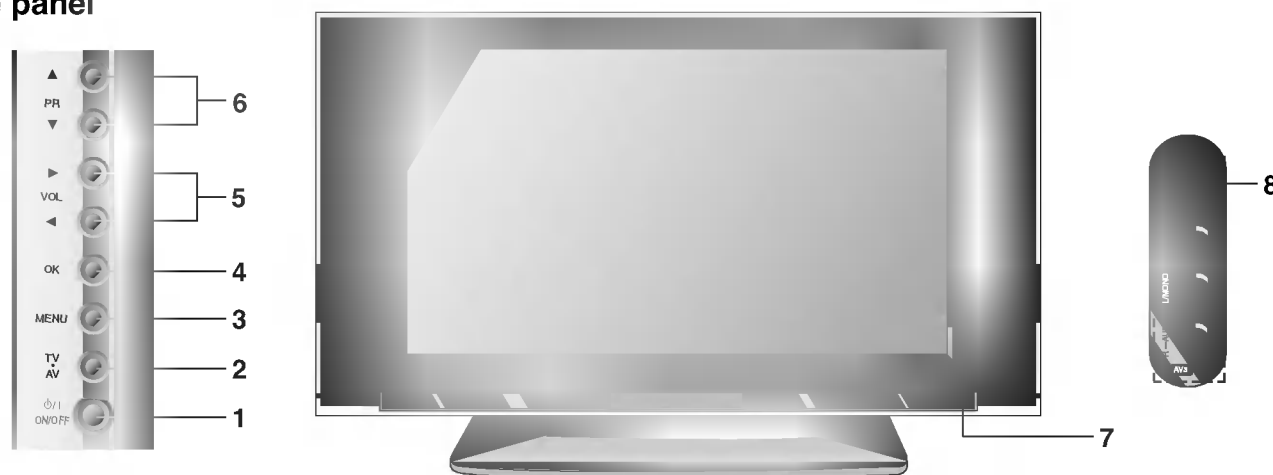
1. In first use,
20 rotation of the handle in the arrow direction as picture below
-> waiting for one minute -> 20 rotation again -> waiting for one minute again -> 20 rotation again -> beginning to use
2. In usual use
5 or 6 rotation -> resuming to use

Note : Do not rotate the handle too rapidly for the protection of the communicator.



Control of Front panel

Side panel



1. ON/OFF (⏻ / I)

switches the set on from standby or off to standby.
Note : Power line lives even when the power is off.

2. TV/AV

selects TV or AV monitor mode.
clears the menu from the screen.
switches the set on from standby.

3. MENU

each time the menu button is pressed it selects firstly the analogue menu, then the digital menu and then clear menu.

4. OK

accepts your selection or displays the current mode.

5. VOL ◀ / ▶ (Volume Down/Up)

adjusts volume.

is used as the ◀ / ▶ button on the remote control in menu mode.

6. PR ▲ / ▼ (Programme Up/Down)

selects a programme.
is used as the ▲ / ▼ button on the remote control in menu mode.

7. REMOTE CONTROL SENSOR

8. AUDIO/VIDEO IN SOCKETS (AV3)

Connect the audio/video out socket of external equipment to these sockets.

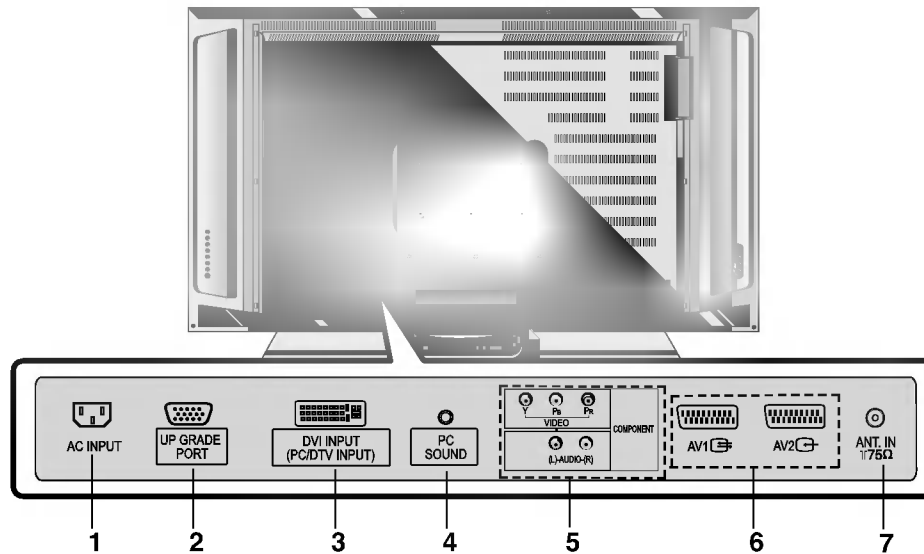
S-VIDEO/AUDIO IN SOCKETS

Connect the video out socket of an S-VIDEO VCR to the S-VIDEO socket.

Connect the audio out sockets of the S-VIDEO VCR to the audio sockets as in AV3.

Connections

Back panel



1. AC INPUT

2. UPGRDE PORT

This port is used to upgrade the software version and debug without changing the hardware.
Be careful not to use this port. Just contact your dealer or service centre.

3. DVI INPUT(PC/DTV INPUT)

4. PC SOUND

5. AUDIO / VIDEO / COMPONENT SOCKETS

6. EURO SCART SOCKETS

Connect the euro scart socket of the VCR to these sockets.

7. AERIAL SOCKET

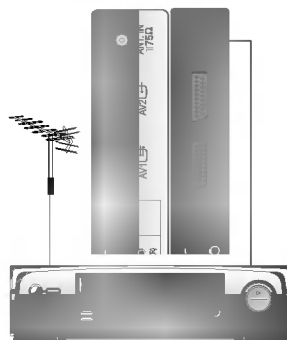
Connect the RF socket of the VCR to the aerial socket

Connection to External equipment

You can connect external equipment, such as VCRs, Camcorders etc. to your set. The guidance given on the next three pages is for the most common forms of connection. However please check with your manufacturers instruction books for specific information. Make sure all connections are made with both your set and additional appliance unplugged from the mains to avoid damaging your equipment.



Connect to Aerial socket



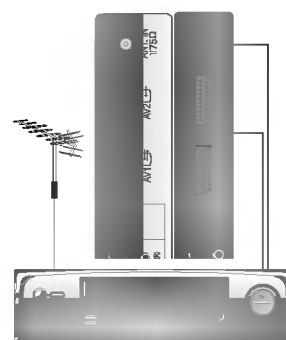
Connect the RF out socket of the VCR to the aerial socket on the back of the set.

Connect the aerial cable to the RF aerial in socket of the VCR.

Press the **PLAY** button on the VCR and tune in an appropriate channel on the TV for viewing.



Connect to Euro scart sockets



Connect the Euro scart socket of the VCR to the Euro scart socket 1, 2 or of the set. Press the **PLAY** button on the VCR.

Press the **TV/AV** button on the remote control to select AV1, AV2. The VCR playback picture appears on the screen.

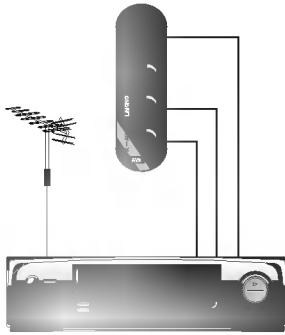
If your VCR outputs a switching voltage connect to Euro scart socket 1, 2 the set will switch to AV1, AV2 mode automatically. But if you want to keep on watching TV mode, press the PR+/- or number buttons.

You can also record programs received by the TV on video tape.

Please note that Signal type RGB, i.e. the signals red, green and blue can only be selected for the Euro scart socket 1. These signals are transmitted, for example, by a pay TV decoder, game machine or photo CD unit, etc and that digital signal can be recorded via Euro scart socket 3 or 2.

Connection to External equipment

Connect to S-Video/Audio in sockets

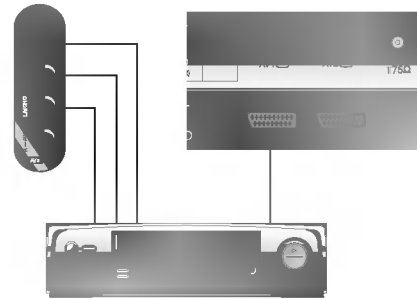


Connect the S-video socket of the VCR to the S-VIDEO socket on the side panel of the set.

Connect the audio cable from the S-VIDEO VCR to the AUDIO sockets on the side panel of the set.

Select **S-video** by pressing the **TV/AV** button repeatedly. Press the **PLAY** button on the VCR. The VCR playback picture appears on the screen. Please note if both S-VIDEO and VIDEO sockets have been connected to the S-VHS VCR simultaneously, only the S-VIDEO can be received.

Connect to Video/Audio in sockets



Connect the video/audio out sockets of the VCR to video/audio on the side panel of the set.

Press the **TV/AV** button to select **AV1, AV2**.

Press the **PLAY** button on the VCR.

The VCR playback picture appears on the screen.

Please note if you have a mono VCR, connect the audio cable from the VCR to the AUDIO L/MONO socket on the side panel.

Basic operation

1

On and Off

Press the main power button to switch the set on.

If the set is in standby mode, press the **POWER**, **PR+/-**, **D/A**, **TV/AV**, **MULTIMEDIA** or **NUMBER** buttons on the remote control or the **PR +/-** button on the set to switch it on fully.

Press the **POWER** button on the remote control. The set reverts to standby mode.

Press the main power button again to switch the set off.

2

Programme selection

Press the **PR+/-** or **NUMBER** buttons to select a programme number.

3

Volume adjustment

Press the ◀ / ▶ button to adjust the volume.

If you want to switch the sound off, press the **MUTE** button.

You can cancel this function by pressing the **MUTE**, **VOL+/-**, **SSM** or **I/II** button.

If, while the set is switched on, the mains plug is disconnected the set will switch to standby or power on when the mains plug is replaced in the mains power socket.

On screen menus

Menu selection



Press the **MENU** button and then **▲ / ▼** button to display each menu.

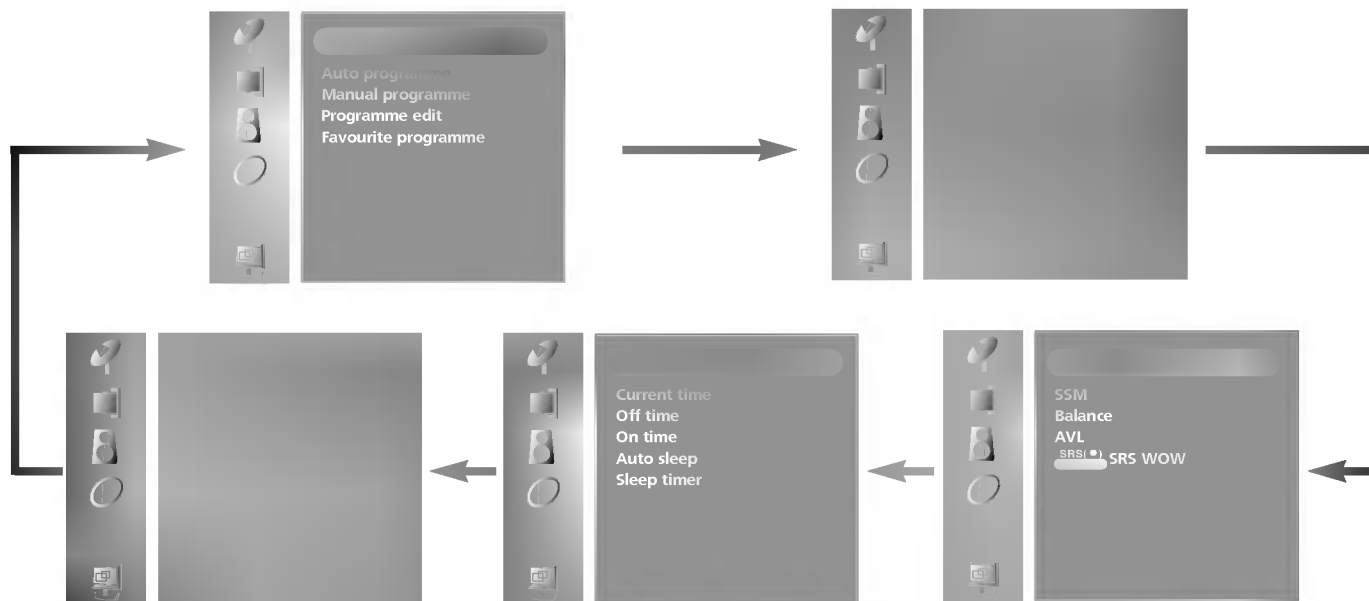


Press the **▶** button and then **▲ / ▼** button to select a menu item.



Change the setting of an item in the sub or pull-down menu with **◀ / ▶** button.

You can move to the higher level menu by pressing the **OK** button and to move to the lower level menu by pressing the **MENU** button.



Setting up TV stations

Auto programme tuning

Up to 100 TV stations can be stored by programme numbers (0 to 99). Once you have preset the stations, you will be able to use the ▲ / ▼ or NUMBER buttons to scan the stations you have programmed.

Stations can be tuned using automatic or manual modes.

All stations that can be received are stored by this method. It is recommended that you use auto programme during installation of this set.

Press the **MENU** button and then ▲ / ▼ button to select the Station menu.

Press the ► button and then ▲ / ▼ button to select **Auto programme**.

Press the ► button. Select a TV system with the ◀ / ▶ button on the **System** menu;

L : SECAM L/L' (France)

BG : PAL B/G, SECAM B/G (Europe/East Europe)

I : PAL I/II (U.K./Ireland)

DK : PAL D/K, SECAM D/K (East Europe)

M : (USA/Korea/Philippines)

Press the **OK** button.

Press the ▲ / ▼ button to select **Storage from**.

Select the beginning programme number with the ▲ / ▼ button or NUMBER buttons on the **Storage from** pull-down menu. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.

Press the **OK** button.



Setting up TV stations

Auto programme tuning



Press the ▲ / ▼ button to select **Start**.

Press the **OK** button to begin auto programming.

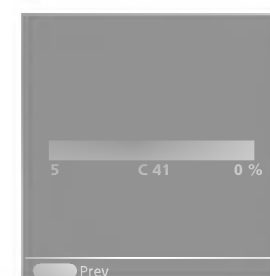
All receivable stations are stored. The station name is stored for stations which broadcast VPS (Video Programme Service), PDC (Programme Delivery Control) or TELETEXT data. If no station name can be assigned to a station, the channel number is assigned and stored as **C** (V/UHF 01-69) or **S** (Cable 01-47), followed by a number.



To stop auto programming, press the **MENU** button.

When auto programming is completed, the **Programme edit** menu appears on the screen. See the 'Programme edit' section to edit the stored programme.

Press the **EXIT** button to return to normal TV viewing.



Setting up TV stations

Manual programme tuning

Manual programme lets you manually tune and arrange the stations in whatever order you desire. Also you can assign a station name with five characters to each programme number.

Press the **MENU** button and then **▲ / ▼** button to select the Station menu.

Press the **▶** button and then **▲ / ▼** button to select **Manual programme**.

Press the **▶** button and then **▲ / ▼** button to select **Storage**.

Select the desired programme number (0 to 99) with the **▲ / ▼** button or NUMBER buttons on the **Storage** menu.

Press the **OK** button.

Press the **▲ / ▼** button to select **System**.

Select a TV system with the **◀ / ▶** button on the **System** menu;

L : SECAM L/L' (France)

BG : PAL B/G, SECAM B/G (Europe/East Europe)

I : PAL I/II (U.K./Ireland)

DK : PAL D/K, SECAM D/K (East Europe)

M : (USA/Korea/Philippines)

Press the **OK** button.

Press the **▲ / ▼** button to select **Channel**.

Press the **◀ / ▶** button to select **V/UHF** or **Cable** on the **Channel** menu.

If possible, select the channel number directly with the number buttons. Any number under 10 is entered with a numeric '0' in front of it, i.e. '05' for 5.

Press the **OK** button.

Press the **▲ / ▼** button to select **Search**.

Press the **◀ / ▶** button to commence searching on the **Search** pull-down menu. If a station is found the search will stop.

Press the **OK** button to store it.

The display **Stored** will appear.

Press the **EXIT** button to return to normal TV viewing.



Setting up TV stations

Manual programme tuning

This function enables you to delete or skip the stored programmes. Also you can move some stations to other programme numbers or insert a blank station data into the selected programme number.

Press the **MENU** button and then **▲ / ▼** button to select the Station menu.

Press the **▶** button and then **▲ / ▼** button to select **Manual programme**.

Press the **▶** button and then **▲ / ▼** button to select **Name**.

Press the **▶** button and then use the **▲ / ▼**. You can use a blank, +, -, ., the number **0** to **9** and the alphabet **A** to **Z**.

With the **◀** button you can select in the opposite direction.

Select the position by pressing the **◀ / ▶** button and then make your choice of the second character, and so on.

Press the **OK** button to store it.

The display **Stored** will appear.

Press the **EXIT** button to return to normal TV viewing.



Setting up TV stations

Manual programme tuning

Fine tuning

Normally fine tuning is only necessary if reception is poor.

Press the **MENU** button and then **▲ / ▼** button to select the Station menu.

Press the **▶** button and then **▲ / ▼** button to select **Manual programme**.

Press the **▶** button and then **▲ / ▼** button to select **Fine tune**.

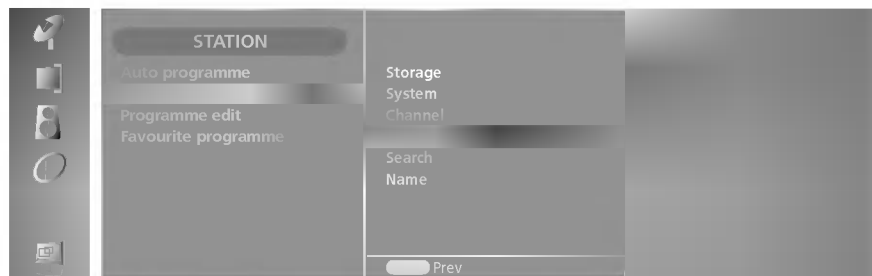
Press the **◀ / ▶** button to fine tune for the best picture and sound on the **Fine** menu.

Press the **OK** button to store it.

The display **Stored** will appear.

Press the **EXIT** button to return to normal TV viewing.

The finely tuned programme will be indicated by a yellow number during programme selection.



Setting up TV stations

Programme edit



Press the **MENU** button and then **▲ / ▼** button to select the Station menu.

Press the **▶** button and then **▲ / ▼** button to select **Programme edit**.

Press the **▶** button.

Deleting a programme

Select a programme to be deleted with the **▲ / ▼** or **◀ / ▶** button.

Press the RED button twice.

The selected programme is deleted, all the following programmes are shifted up one position.

Copying a programme

Select a programme to be copied with the **▲ / ▼** or **◀ / ▶** button.

Press the GREEN button.

All the following programmes are shifted down one position.



Setting up TV stations

Programme edit

Moving a programme

Select a programme to be moved with the ▲ / ▼ or ◀ / ▶ button.

Press the YELLOW button.

Move the programme to the desired programme number with the ▲ / ▼ or ◀ / ▶ button.

Press the YELLOW button again to release this function.

Skipping a programme number

Select a programme number to be skipped with the ▲ / ▼ or ◀ / ▶ button.

Press the BLUE button. The skipped programme turns to blue.

Press the BLUE button again to release the skipped programme.

When a programme number is skipped it means that you will be unable to select it using the ▲ / ▼ button during normal TV viewing. If you want to select the skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or table menu.

Press the **EXIT** button to return to normal TV viewing.



Setting up TV stations

Favourite programme



Press the **MENU** button and then **▲ / ▼** to select the Station menu.



Press the **▶** button and then **▲ / ▼** to select **Favourite programme**.

Press the **▶** button and then **▲ / ▼** button to select -- -----.



Select a desired programme with the **◀ / ▶** button or NUMBER buttons. Any number under 10 is entered with a numeric **'0'** in front of it, i.e. **'05'** for 5.

You can store up to 7 programmes.

Press the **EXIT** button to return to normal TV viewing.

Repeatedly press the **FAVOURITE** button to select stored favourite programmes.



Setting up TV Stations

Calling the programme table

You can check the programmes stored in the memory by displaying the programme table.

Displaying programme table

Press the **LIST** button to display the **Programme table** menu.

The programme table appears on the screen. One programme table contains ten programmes as below.

Note :

- You may find some blue programmes. They have been set up to be skipped by auto programming or in the programme edit mode.
- Some programmes with the channel number shown in the programme table indicate there is no station name assigned.

Selecting a programme in the programme table

Select a programme with the **▲ / ▼** or **◀ / ▶** button.

Then press the **OK** button.

The set switches to the chosen programme number.

Paging through a programme table

There are 4 programme table pages in which contain 100 programmes.

Pressing the **▲ / ▼** or **◀ / ▶** button repeatedly turns the pages.

Press the **EXIT** button to return to normal TV viewing.



Picture adjustment



PSM (Picture Status Memory)

Press the **MENU** button and then **▲ / ▼** button to select the Picture menu.

Press the **▶** button and then **▲ / ▼** button to select **PSM**.

Press the **◀ / ▶** button to select a picture setting on the **PSM** menu.

Press the **▶** button.

Press the **EXIT** button to return to normal TV viewing.

You can also recall a desired picture (**Dynamic**, **Standard**, **Mild**, **Game** or **User**) with **PSM** button on the remote control. The picture **Dynamic**, **Standard**, **Mild** and **Game** are programmed for optimum picture reproduction at the factory and cannot be changed.



Picture adjustment

You can adjust picture contrast, brightness, colour intensity, sharpness and tint (NTSC AV only) to the levels you prefer.

Press the **MENU** button and then **▲ / ▼** button to select the Picture menu.

Press the **▶** button and then **▲ / ▼** button to select **PSM**.

Press the **OK** button.

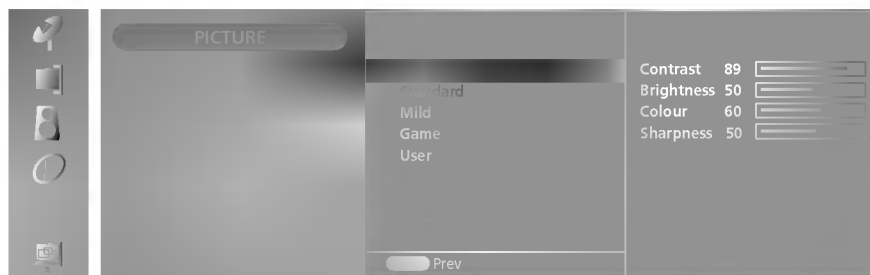
Press the **◀ / ▶** button to make appropriate adjustments on each sub menu.

You can also select other **User** items directly with **▲ / ▼** button and adjust them with **◀ / ▶** button.

Press the **OK** button to store it for the picture **User**.

Press the **EXIT** button to return to normal TV viewing.

Note : Only **Contrast** and **Brightness** are displayed in PC mode.





CSM (Colour Status Memory)

You can adjust the temperature of R, G, B (Red, Green, Blue) to the levels you prefer.

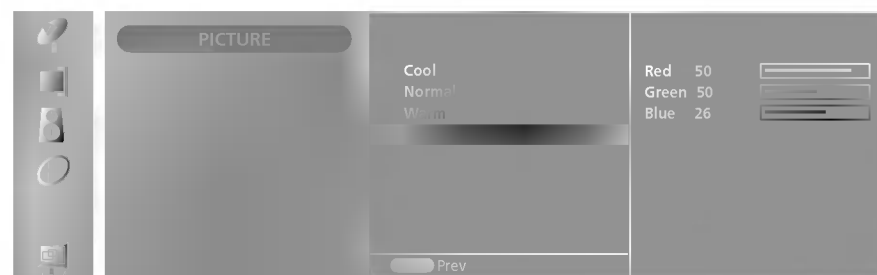
Press the **MENU** button and then **▲ / ▼** button to select the Picture menu.

Press the **▶** button and then **▲ / ▼** button to select **CSM**.

Press the **▶** button.

Repeat the 'Picture adjustment' steps 4 to 6.

The temperature **Cool**, **Normal**, **Warm** and **User** are programmed for optimum picture reproduction at the factory and can not be changed.



Picture adjustment

4

XD

5

Picture adjustment

Picture format

You can watch TV in various picture formats; Wide, 14:9, Zoom, Auto, 4:3.

Repeatedly press the **ARC** button to select your desired picture format.

Wide

You can enjoy the cinema (the picture format of 16:9) or general TV programme through the 16:9 mode.

The screen 16:9 is viewed just like that but the screen 4:3 is magnified to the left and right so that the screen 16:9 is full.

14:9

You can enjoy the picture format of 14:9 or general TV programme through the 14:9 mode.

The screen 14:9 is viewed just like that the screen 4:3 is magnified to the upper / lower and left / right.

Zoom

You can enjoy the cinema in a vast screen through the Zoom mode.

The screen 4:3 is magnified to the upper / lower and left / right sides so that the screen 16:9 is full. The bottom and top of the picture may be lost.

Auto

When your set receives the wide screen signal, it will be automatically changed to the picture format to be sent.

4:3

This picture format is 4 to 3 of general TV.

Note : You are available to Wide and 4:3 in PC mode.



SSM (Sound Status Memory)

You can select your preferred sound setting; Flat, Music, Movie or Speech and you can also adjust the sound frequency of the equalizer.

Press the **MENU** button and then **▲ / ▼** button to select the Sound menu.

Press the **▶** button and then **▲ / ▼** button to select **SSM**.

Press the **◀ / ▶** button to select a sound setting on the **SSM** menu.

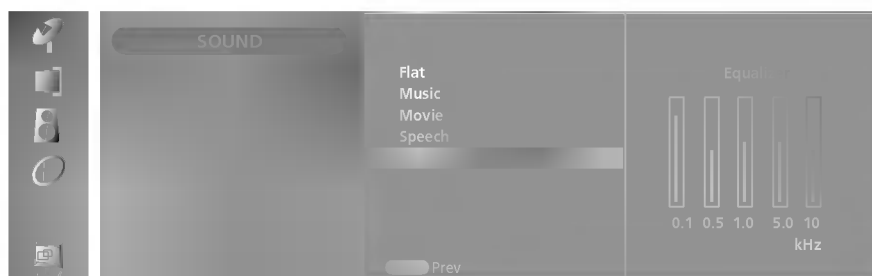
Sound Frequency Adjustment

- Press the **OK** button in **SSM**.
- Select a sound band by pressing the **◀ / ▶** button.
- Make appropriate sound level with the **▲ / ▼** button.
- Press the **OK** button to store it for the sound **User**.

Press the **EXIT** button to return to normal TV viewing.

You can also recall a desired sound setting (**Flat**, **Music**, **Movie**, **Speech** or **User**) with **SSM** button on the remote control. The sound settings **Flat**, **Music**, **Movie** and **Speech** are programmed for optimum sound reproduction at the factory and cannot be changed.

Note : If you press the **SSM** button after making appropriate adjustment on the **User** sub menu, the display **User** automatically appears even though you have already set a factory preset setting; **Flat**, **Music**, **Movie** or **Speech**.



Sound adjustment



Sound adjustment

You can adjust balance, AVL (Auto Volume Leveler). AVL automatically keeps on an equal volume level even if you change programmes.

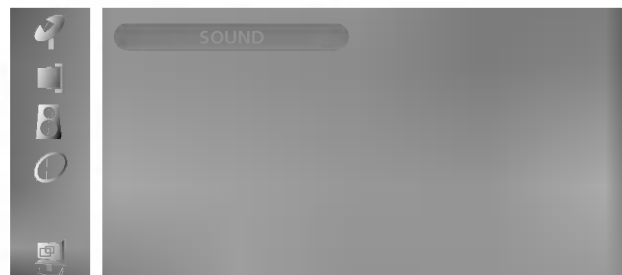
Press the **MENU** button and then **▲ / ▼** button to select the Sound menu.

Press the **OK** or **▶** button and then **▲ / ▼** button to select the desired sound item; **AVL** or **Balance**.

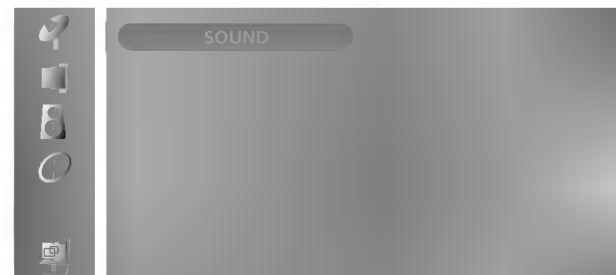
Make desired adjustment with the **◀ / ▶** and then press the **OK** button.

Press the **EXIT** button to return to normal TV viewing.

Note : In PC mode, you can select Sound select menu in PIP, DW1, DW2, POP1 mode.



SRS WOW



Stereo/Dual reception

When a programme is selected, the sound information for the station appears after the programme number and station name disappear.

Broadcast	On Screen Display
Mono	MONO
Stereo	STEREO
Dual	DUAL I

Mono sound selection

In stereo reception if the stereo signal is weak, you can switch to mono by pressing the **I/II** button twice. In mono reception the depth of sound is improved. To switch back to stereo, press the **I/II** button twice again.

Language selection for dual language broadcast

If a programme is received in two languages (dual language), you can switch to **DUAL I**, **DUAL II** or **DUAL I+II** by pressing the **I/II** button repeatedly.

DUAL I sends the primary broadcast language to the loudspeakers.

DUAL II sends the secondary broadcast language to the loudspeakers.

DUAL I+II sends a separate language to each loudspeaker.

NICAM reception (option)

If your set is equipped with the receiver for NICAM reception, the high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.

Sound output can be selected according to the type of received broadcast as follows by pressing the **I/II** button repeatedly.

1. When NICAM mono is received, you can select **NICAM MONO** or FM MONO.
2. When NICAM stereo is received, you can select **NICAM STEREO** or FM MONO. If the stereo signal is weak, switch to FM mono.
3. When NICAM dual is received, you can select **NICAM DUAL I**, **NICAM DUAL II** or **NICAM DUAL I+II** or **MONO**. When FM mono is selected the display **MONO** appears on the screen.

Sound output selection

In AV mode, you can select output sound for the left and right loudspeakers.

Repeatedly press the **I/II** button to select the sound output.

L+R :Audio signal from audio L input is sent to left loudspeaker and audio signal from audio R input is sent to right loud-speaker.

L+L :Audio signal from audio L input is sent to left and right loud-speakers.

R+R :Audio signal from audio R input is sent to left and right loud-speakers.

TIME Menu



Current time

You must set the time correctly before using on/off time function.

Press the **MENU** button and then ▲ / ▼ button to select the TIME menu.

Press the ► button and then ▲ / ▼ button to select TIME.

Press the ► button and then ▲ / ▼ button to adjust the year.

Press the ► button and then ▲ / ▼ button to adjust the hour.

Press the ► button and then ▲ / ▼ button to adjust the minute.

Press the **EXIT** button to return to normal TV viewing.



On/Off Time

The off timer automatically switches the set to standby at the preset time.

Press the **MENU** button and then ▲ / ▼ button to select the TIME menu. Press the ► button and then ▲ / ▼ button to select **Off Time** or **On Time**. Press the ► button and then ▲ / ▼ button to select **On**.

To cancel **Off/On Time** function, press the ▲ / ▼ button to select **Off**.

Press the ► button and then ▲ / ▼ button to adjust the hour.

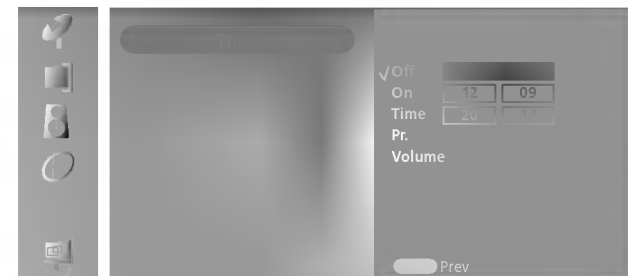
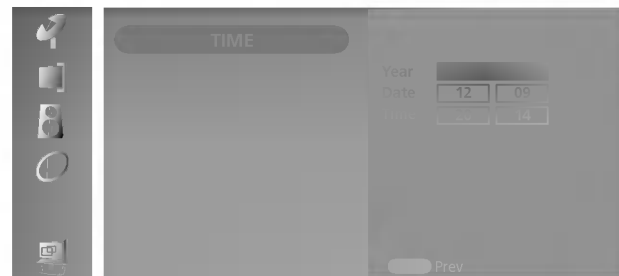
Press the ► button and then ▲ / ▼ button to adjust the minute.

Only On Time function; Press the ► button and then ▲ / ▼ button to adjust volume level and programme number.

Press the **MENU** button to save.

Note :

- In the event of power interruption (disconnection or power failure), the clock must be reset.
- Two hours after the set is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.
- Once the on or off time is set, these functions operate daily at the preset time.
- Off Timer function overrides On Timer function if they are set to the same time.
- The set must be in standby mode for the On Timer to work.





Auto sleep

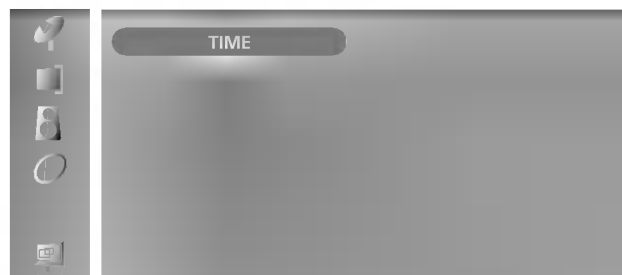
If you select **On** on the **Auto sleep** menu, the set will automatically switch itself to standby mode approximately ten minutes after a TV station stops broadcasting.

Press the **MENU** button and then **▲ / ▼** button to select the TIME menu.

Press the **▶** button and then **▲ / ▼** button to select **Auto sleep**.

Press the **▶** button and then **▲ / ▼** button to select **On** or **Off**.

Press the **MENU** button to save.



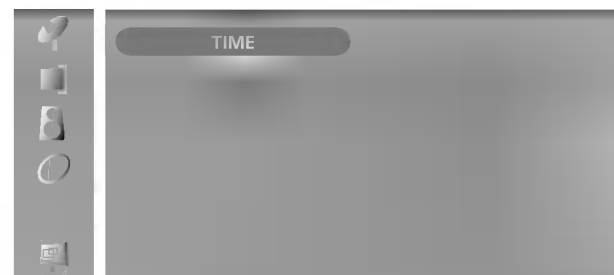
Sleep timer

You don't have to remember to switch the set off before you go to sleep. The sleep timer automatically switches the set to standby after the preset time has elapsed.

Press the **SLEEP** button to select the number of minutes. The display '**Off**' will appear on the screen, followed by **10, 20, 30, 60, 90, 120, 180** and **240**. The timer begins to count down from the number of minutes selected.

Note :

- To view the remaining sleep time, press the **SLEEP** button once.
- To cancel the sleep time, repeatedly press the **SLEEP** button until the display '**Off**' appears.
- When you switch the set off, the set releases the pre-set sleep time.



SPECIAL Menu



TV, AV and PC modes

Inputs can be set for TV, AV or PC mode. AV mode is used when a video cassette recorder (VCR), or other equipment is connected to the set.

Note : When a VCR is connected via the aerial socket the set is used in TV mode. See the 'Connection of external equipment' section.

Press the **MENU** button and then ▲ / ▼ button to select the Special menu.

Press the **OK** or ► button and then ▲ / ▼ button to select **Input**.

Press the ◀ / ▶ button to select **TV, AV1, AV2, AV3, S-Video** or **RGB-PC**.

The AV and RGB-PC modes are :

AV 1 : VCR connected to the Euro scart socket of the set

AV 2 : VCR connected to the **AV2** of the set

AV 3 : VCR connected to the **AV3** of the set

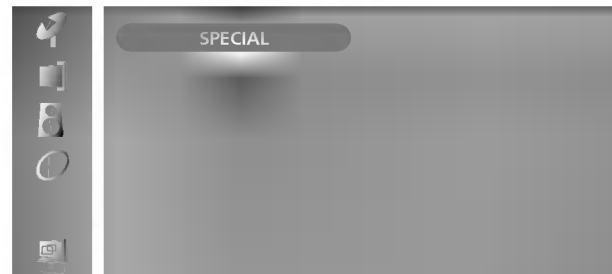
S-Video : VCR connected to the **S-Video** of the set

RGB-PC : PERSONAL COMPUTER connected to the PC socket of the set

Press the **EXIT** button to return to normal TV viewing.

Alternatively you can select the TV or AV mode by pressing the **TV/AV** button.

In AV mode, to return to TV mode, press the ▲ / ▼ or NUMBER buttons.



Auto AV switching

If your VCR outputs an AV switching voltage when connected to the Euro scart socket, the set will switch to **AV1** mode automatically. But if you want to keep on watching TV mode, press the ▲ / ▼ or NUMBER buttons. Press the **TV/AV** button to return to AV modes.



Child lock

The TV can be set so that the remote control handset is needed to control it. This feature can be used to prevent unauthorized viewing.

Press the **MENU** button and then **▲ / ▼** button to select the Special menu.

Press the **OK** or **▶** button and then **▲ / ▼** button to select **Child lock**.

Press the **◀ / ▶** button to select **On** or **Off** on the **Child lock** menu.

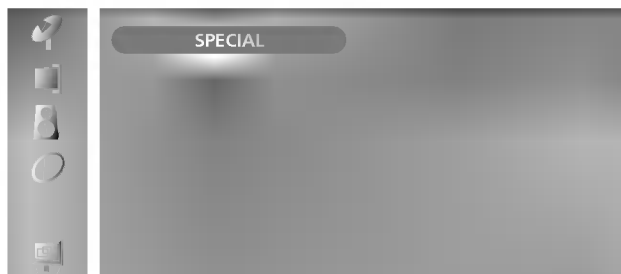
Press the **EXIT** button to return to normal TV viewing.

With the lock on, the display **Child lock on** appears on the screen if any button on the side panel is pressed while viewing the TV.

Note : The display **Child lock on** will not appear on the screen if any button on the side panel is pressed while displaying the menus.



AV1 Out



PIP operation (option)

Option :

PIP is an optional function, so that only the set with PIP function can operate.
PIP (Picture in Picture) displays a picture within a picture.
Select TV, AV or PC mode to operate PIP function.

On and off

Press the **PIP** button to switch on the sub picture.
Each time this button is pressed, each mode for the sub picture is displayed as shown below.

→ **Off** → **PIP** → **DW1** → **DW2** → **POP1** (PC mode only) →

Repeatedly press this button to switch it off.

Input mode selection for sub picture (PC mode only)

Press the **PIP INPUT** button to select the input mode for the sub picture.

Each time this button is pressed, each input mode for the sub picture is displayed as shown below.

→ Programme number → **AV1** → **AV2** → **AV3** → **S-Video** →

Programme selection for sub picture

Press the **PIP PR +/-** buttons to select a programme for the sub picture. The selected programme number is displayed just below the programme number of main picture.

Swapping between main and sub pictures

Press the **PIP SWAP** button to exchange the main and sub pictures.

Sub picture size

Press the **SIZE** button and then press the ◀ / ▶ button until desired size is achieved.

The **SIZE** button doesn't work in DW1, DW2 and POP1 mode.

Sub picture freeze

Press the **STILL** button to freeze motion of the sub picture.

Press any button to restore motion.

Sub picture position change

Press the **POSITION** button and then press the ▲ / ▼ or ◀ / ▶ button until desired position is achieved.

The sub pictures moves up/down or left/right. The **POSITION** button doesn't work in DW1, DW2 and POP1 mode.

Programme scan

This function enables you to search all the stored stations on 3/12 sub pictures and 9 main pictures and see your favourite station by exchanging the main and sub pictures.

Press the **SCAN** button repeatedly to select POP3/POP12/POP9.

The selected sub or main pictures search all the stored stations.

Press the **EXIT** button to switch off sub or main pictures.

Note : The PIP picture resolution will be decreased by the PIP size.

<PIP/POP Specification>

Condition		PIP mode				
Main picture	PIP	PIP	POP3	POP12	POP9	POP1
PC	RF (TV)	RF (TV)	RF (TV) channel scan	RF (TV) channel scan	PC strobe	RF (TV)
PC	AV	AV	AV strobe	AV strobe	PC strobe	AV
RF (TV)	PC	PC	PC strobe	PC strobe	RF (TV) strobe	x
AV	PC	PC	PC strobe	PC strobe	AV strobe	x

Teletext (option)

Teletext (or TOP text) is an optional function, therefore only a set with the teletext system can receive the teletext broadcast.

Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.

The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

Switch on/off

Press the **TEXT** button to switch to teletext. The initial page or last page appears on the screen.

Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the **TEXT** or **EXIT** button to switch off teletext. The previous mode reappears.

SIMPLE text

Page selection

Enter the desired page number as a three digit number with the NUMBER buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.

The ▲ / ▼ button can be used to select the preceding or following page.

Programming a colour button in LIST mode

If the TV is in SIMPLE text, TOP text or FASTEXT mode, press the button to switch to LIST mode.

Four teletext page numbers of your choice can be colour coded and easily selected by pressing the corresponding coloured button on the remote control handset.

Press a coloured button.

Using the NUMBER buttons, select the page you wish to programme.

Press the **OK** button. Then the selected page is stored as the selected page number by blinking once. From now on, you can select this page with the same coloured button.

The three other coloured buttons are programmed in this way.

Note : In PIP of the PC mode, select the sub picture size is **PIP, DW1, DW2, POP1**.

In **PIP** of the PC mode, the text on the screen may be unstable.

TOP text (option)

The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

Block / group / page selection

With the blue button you can progress from block to block.

Use the yellow button to proceed to the next group with automatic overflow to the next block.

With the green button you can proceed to the next existing page with automatic overflow to the next group.

Alternatively the ▲ button can be used.

The red button permits to return to previous selection. Alternatively the ▼ button can be used.

Direct page selection

Corresponding to the SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.

FASTEXT

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

Page selection

Press the button to select the index page.

You can select the pages which are colour coded along the bottom line with the same coloured buttons.

Corresponding to the SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.

The ▲ / ▼ button can be used to select the preceding or following page.

Teletext (option)

Special teletext functions

REVEAL

Press this button to display concealed information, such as solutions of riddles or puzzles.

Press this button again to remove the information from the display.

SIZE

Selects double height text.

Press this button to enlarge the top half of the page.

Press this button again to enlarge the bottom half of the page.

Press this button again to return to the normal display.

UPDATE

Displays the TV picture on the screen while waiting for the new teletext page. The display will appear at the top left hand corner of the screen. When the updated page is available then display will change to the page number.

Press this button to view the updated teletext page.

HOLD

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is

inhibited.

To continue press this button again.

MIX

Displays the teletext pages superimposed on the TV picture.

To switch the TV picture off press this button again.

TIME

When viewing a TV programme, press this button to display the time at the top right hand corner of the screen.

Press this button again to remove the display. In the teletext mode, press this button to select a sub page number.

The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, ▲ / ▼ or NUMBER buttons.

Press again to exit this function.

Menu selection

Press the **MENU** button and then ▲ / ▼ button to display each menu.

Press the **OK** or ► button and then ▲ / ▼ button to select a menu item.

Change the setting of an item in the sub menu or the pull-down menu with ◀ / ▶.

You can move to the higher level menu by pressing the **OK** button and to move to the lower level menu by pressing the **MENU** button.

Note :

- a. See 'Picture adjustment' section to adjust the picture.
- b. See 'Sound adjustment' section to adjust the sound.
- c. See 'TV, AV and PC modes' section to select TV, AV1, AV2, AV3, S-Video or RGB-PC.

PC Setup

You can adjust horizontal/vertical position, clock, phase, and auto-configure as you prefer.

Press the **MENU** button and then ▲ / ▼ button to select the RGB-PC menu.

Press the **OK** or ► button and then ▲ / ▼ button to select the desired picture item.

Press the ◀ / ▶ button to make appropriate adjustments.

H-Position / V-Position

This function is to adjust picture to left/right and up/down as you prefer.

Clock

This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.

Phase

This function allows you to remove any horizontal noise and clear or sharpen the image of characters.

Auto-configure

This function is for the automatic adjustment of the screen position, clock and phase. The displayed image will disappear for a few seconds while the Auto-configuration is in progress.

Note : Some signal from some graphics boards may not function properly. If the results are unsatisfactory, adjust your monitor's position, clock and phase manually.

Press the **OK** button to store it for the PC monitor picture.

Press the **EXIT** button to return to PC mode.

Setting up Digital TV stations Auto programme

Press the **D/A TV** button to select digital mode.
Use this Auto Programme to automatically find and store all of the stations.
When **Lock On/Off** is **On**, the password must be inputted to begin auto programming.

1

Press the **DIGITAL SETUP** button, then use the **▲ / ▼** button to select the **Auto Programme** menu.

2

Press the **▶** button to enter the **Auto Programme** menu.

3

Press the **OK** button to begin auto programming.

The message **"All of service-information will be updated. Continue?"** will appear.

If you want to keep on auto programming select **YES**. Otherwise select **NO**.

To stop auto programming, press the **DIGITAL SETUP** button.

4

When auto programming is completed, the **Store Programme** menu appears on the screen. See the **'Store Programme'** section to store programme.

Repeatedly press the **DIGITAL SETUP** button to return to TV viewing.

When you start auto programming in digital mode, all the stored service information will be deleted. If you stop auto programming, the existed service information cannot be restored.

Setting up Digital TV stations

Manual Programme

1

Press the **DIGITAL SETUP** button, then use the ▲ / ▼ button to select the **Manual programme** menu.

2

Press the ► button to enter the **Manual programme** menu.

3

Press the ▲ / ▼ button to select a channel number you'd like to add to your channel list and then press the OK button.

If you select the channel number you have already programmed, the message ***"This channel has already been programmed. Service Information of the channel will be updated. Continue?"*** will appear.

When the message appears, if you want to update the selected channel select YES.

Otherwise select NO.

Repeatedly press the **DIGITAL SETUP** button to return to TV viewing.

Setting up Digital TV Stations Store Programme

When a programme number is skipped, it means that you will be unable to select it using **PR+/-** button during TV viewing. If you want to select the skipped programme, directly enter the programme number with the **NUMBER** buttons or select it in the **Store Programme menu**.

1

Press the **DIGITAL SETUP** button, then use the **▲ / ▼** button to select the **Store Programme** menu.

2

Press the **▶** button to enter the **Store Programme** menu.

3

Select a programme to be stored or skipped with the **▲ / ▼** or **◀ / ▶** button.

Press the **BLUE** button repeatedly to have the programme skipped or stored.

In case of programmes to be skipped, the **"Skip"** will appear at the top left hand corner of the menu and these programmes will not be selected by the **PR+/-** buttons during TV viewing.

Repeatedly press the **DIGITAL SETUP** button to return to TV viewing.

To watch the programme you select, press the **OK** button.

Setting up Digital TV stations Store Programme

If signal strength is weak,
check the RF cable or
antenna.

This function shows signal strength and software version.

1

Press the DIGITAL SETUP button.
Press the / button to select the System Information menu.
System information is displayed.

Signal strength is displayed.

2

Press the DIGITAL SETUP button to return
to TV viewing.

This function enables you to block specific channels.

1

Press the **DIGITAL SETUP** button, then use the **▲ / ▼** button to select the **Channel Lock** menu.

2

Press the **▶** button to enter the **Channel Lock** menu. Enter a four digit password to enter this mode. (Refer to page 47 "Password setting")

3

Press the **▲ / ▼** or **◀ / ▶** button to select a programme number you want to lock.

4

Press the RED button. The programme is locked and the lock icon appears on the programme number.

To unlock the locked programme, press the RED button on the programme number.

Repeatedly press the **DIGITAL SETUP** button to return to TV viewing.

LOCK (In digital mode) Channel Lock

To watch the programme you select, press the **OK** button.

A password is required to gain access to this menu and to the locked programme.

LOCK (In digital mode)

Lock On/Off

A password is required to gain access to this menu and to the locked programme.

This function activates or disables the whole blocking scheme you set up previously.

1

Press the **DIGITAL SETUP** button, then use the ▲ / ▼ button to select the **Lock On/Off** menu.

2

Press the ► button.

If you haven't set the password yet, the message **"You must set the password..."** will appear and you have to set the password first by referring to the 'Password setting' section.

3

Press the ▲ / ▼ or ◀ / ▶ button to select **On** or **Off**.

4

Repeatedly press the **DIGITAL SETUP** button to return to TV viewing.

LOCK (In digital mode) Password setting

You can also use the master password (7776) to set the new password.

1

Press the **DIGITAL SETUP** button, then use the ▲ / ▼ button to select the **Password Set** menu.

2

Press the ► button.
Enter a four digit password.

3

Enter 4 digit number to change the password.

4

Enter new password again when requested.

Preference (In digital mode) Audio Language & Subtitle

Even though you select your preferred language in this menu, you can only hear or view the language if it is an option with the TV programme transmission.

This function lets you select your preferred language for audio and subtitle.

1

Press the **DIGITAL SETUP** button, then use the **▲ / ▼** button to select the **Audio Language** or **Subtitle** menu.

2

Press the **▶** button.

3

Audio Language

Press the **▲ / ▼** button to select **English**, **Welsh** or **Gaelic**.

You can select audio language with the **VII** button on the remote control when broadcasting two or more **Audio Language**.

Subtitle

Press the **▲ / ▼** button to select Off, **English**, **Welsh** or **Gaelic**.

You can select subtitle with the **SUBTITLE** button on the remote control after selecting the **Subtitle** in **Datacasting** menu when broadcasting two or more **Subtitle Language**.

4

Repeatedly press the **DIGITAL SETUP** button to return to TV viewing.

Preference (In digital mode) Datacasting

This function enables you to select your preferred datacasting; Digital Teletext (Refer to page 55) or Subtitle (Refer to page 48).

If you select Digital Teletext, you can only use Digital Teletext function and the item Subtitle menu becomes inactive. Alternatively, if you select Subtitle, you can only use Subtitle function and the item **Subtitle** becomes active.

1

Press the **DIGITAL SETUP** button, then use the ▲ / ▼ button to select the **Datacasting** menu.

2

Press the ► button, then use the ▲ / ▼ button to select **Digital Teletext** or **Subtitle**.

3

Repeatedly press the **DIGITAL SETUP** button to return to TV viewing.

Preference (In digital mode) Common Interface - Conditional Access Module

When the module is inserted to one of the CI slots, you can access the module menu.

To purchase a module and smart card, contact your supplying dealer.

This function enables you to watch some subscription channel programmes.

1

Press the **DIGITAL SETUP** button, then use the **▲ / ▼** button to select the **CI information** menu.

2

Press the **▶** button to enter the **CI information** menu.

Press the **▲ / ▼** button to select **Module 1** or **Module 2**.

3

Press the **OK** button to enter the CI menu.

Do not often insert or remove a CAM Module from the set. It may cause a trouble.

4

Press the / button to select the desired item; **parental lock, modem settings, auto update, ONdigital data** or **ONdigital updates**, and then press the OK button.

Please Note that this page is only for illustration and the menu options and screen format will vary according to the Digital Service Provider.

It's possible for you to change **CI (Common Interface) Menu** screen and service by your dealer.

5

Press the **CANCEL/EXIT** button to return to TV viewing.

Preference (In digital mode) Common Interface - Conditional Access Module

EPG (Electronic Programme Guide)

This function can be used only when the EPG information is broadcasted by broadcasting companies.

The EPG provides Digital Programme Information.

1

Switch on/off EPG

Press the **GUIDE** button to switch on EPG.

Press the **GUIDE** button again to switch off EPG and return to TV viewing.

2

Select a programme

Press the **▲ / ▼ / ◀ / ▶** button to select desired programme, then press the **OK** button to display the selected programme.

3

Select a programme by group

Press the **COLOURED** button to enter the sub menu by group.

TELETTEXT

Analogue teletext

Teletext is a free service broadcast by most TV stations which gives up-to-the minute information on news, weather, television programmes, share prices and many other topics.

1

Switch on/off teletext

Press the **TEXT** button to switch on teletext.

The initial page or the last page you had on the screen appears.

Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed.

Press the **TEXT** button to switch off teletext and return to TV viewing.

2

SIMPLE text mode

Press the NUMBER buttons to enter the page number you want as a three digit number.

If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.

The **PR+/-** or **▲ / ▼** button can be used to select the previous or next page.

3

Programming a colour button in LIST mode

If the TV is in SIMPLE text, TOP text or FASTEXT mode, press the button to switch to LIST mode.

Four teletext page numbers of your choice can be colour coded and easily selected by pressing the corresponding coloured button on the remote control handset.

First press a coloured button and using the NUMBER buttons, select the page you wish to programme. Press the **OK** button, then the page number of the selected page is stored, indicated by blinking once. From now on, you can select this page with the same coloured button. The three other coloured buttons are programmed buttons are programmed in this way.

Four teletext page numbers of your choice can be colour coded and easily selected by pressing the corresponding coloured button on the remote control.

TELETEXT

Analogue teletext

Four teletext page numbers of your choice can be colour coded and easily selected by pressing the corresponding coloured button on the remote control.

1

FASTEXT mode

Press the button to select the index page.

You can select the pages which are colour coded along the bottom line with the same coloured buttons.

In FASTEXT mode, as in the SIMPLE text mode, you can select a page by entering its three digit page number with the NUMBER buttons. The **PR+/-** or **▲ / ▼** button can be used to select the previous or next page.

2

Special teletext function

REVEAL

Press this button to display concealed information, such as solutions of riddles or puzzles. Press this button again to remove the information from the display.

EXPAND (SIZE)

Press this button to enlarge the top half of the page. Press this button again to enlarge the bottom half of the page. Press this button again to return to the normal display.

UPDATE

Display the TV picture on the screen while waiting for the new teletext page. The update symbol will appear at the top left hand corner of the screen. When the updated page is available the page number will appear. Press this button to view the updated teletext page.

HOLD (STOP)

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this button is pressed the stop symbol is displayed at the top left hand corner of the screen and the automatic page change is paused. To continue press this button again.

MIX

Displays the teletext pages superimposed on the TV picture. To switch the TV picture off press this button again.

TIME

When viewing a TV programme, press this button to display the time at the top right hand corner of the screen. Press this button again to remove the display. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, **PR+/-**, **▲ / ▼** or NUMBER buttons. Press again to exit this function.

The set gives you access to a digital teletext which is greatly improved in various aspects such as text, graphics and so on.

This digital teletext can be accessed by special digital teletext services and specific services which broadcast digital teletext.

1

Teletext within digital service

Press the numeric or **PR+/-** button to select a digital service which broadcasts digital teletext.

To know which are digital teletext services, refer to the EPG service list.

Follow the indications on digital teletext and move onto the next step by pressing **TEXT**, **OK**, **▲**, **▼**, **◀**, **▶**, **RED**, **GREEN**, **YELLOW**, **BLUE** or **NUMBER** buttons and so on.

To exit digital teletext service, just select a different service by the numeric or **PR+/-** button.

2

Teletext in digital service

Press the numeric or **PR+/-** button to select a certain service which broadcast digital teletext.

Press the **TEXT** button to switch on teletext.

Follow the indications on digital teletext and move onto the next step by pressing **OK**, **▲**, **▼**, **◀**, **▶**, **RED**, **GREEN**, **YELLOW**, **BLUE** or **NUMBER** buttons and so on.

Press the **TEXT** button to switch off teletext and return to TV viewing.

OAD (On Air Download)

1

Occasionally, a transmission of updated digital programme information will result in the following menu to appear on the TV screen (On Air Download).

2

Select the **YES** to use the ◀ / ▶ button and as following picture, progress **OAD**.

After **OAD**, you can confirm the upgraded Software version in **System Information** in Digital Setup

During Progress of Software Upgrade please note the following!

The power to the TV must not be interrupted.
The set must not be switched off.
The aerial must not be disconnected!

After **OAD** is complete the TV takes about one minute to restart. During this time, you should not switch off the power to the set.

At this time, you should not work power **On/Off**.

Troubleshooting Check list

Symptoms

No picture, no sound

Sound OK, poor picture

Picture OK, poor sound

Picture blurred

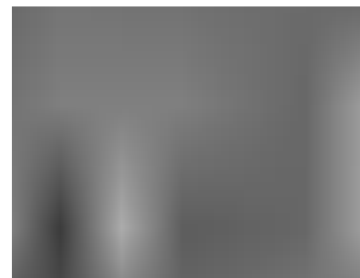
Lines or streaks in picture

Poor reception on some channels

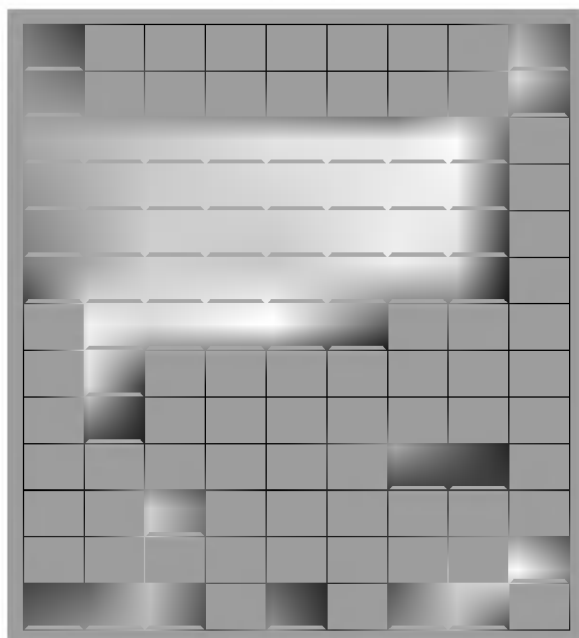
No colour

Poor colour

Remote control does not work



Check these items and try to adjust these



The mains plug-(plugged in and switched on)

Is the TV switched on

Try another channel (weak signal)

Check aerial (plugged into TV?)

Check aerial (broken lead?)

Check aerial

Check for local interference

Adjust contrast

Adjust brightness

Adjust colour

Adjust volume

Check the batteries in remote control

Check Audio/Video sockets (VCR only)

