

# **LCD TV**

## **Operating Instructions**

**26"**  
**32"**



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## Conformity



This product fulfills the EC guidelines 89/336/EEC (EMC guideline) with amendments 93/68 EEC and 92/31 EEC and the EC guideline 73/23/EEC (low voltage guideline) with amendments 93/68/EEC.

## Disposal



This product is subject to the European guideline 2002/96/EC.

All electric and electronic devices must be disposed of separately from household waste at publicly established facilities.

Avoid hazard to the environment and dangers to your personal health by disposing the device properly.

For further information about the proper disposal, contact the relevant local government department, the disposal facility or the shop where you bought the device.

## Unpacking and Setup

### Scope of Supply

*Please check, that the delivery is complete.*

- 1 Unit
- 2 Remote control
- 3 Batteries
- 4 Mains cable

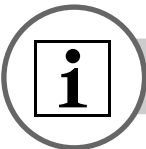
### Safety

- Read the following instructions carefully.
- Keep this manual at hand.
- Closely follow the instructions given.
- Proceed exactly as described in the instructions.
- Do not use the unit near water.
- Clean the unit with a dry cloth only.
- Ensure that the ventilation openings are not covered.
- Do not install the unit close to heat sources such as radiators, stoves or other devices (including amplifiers) radiating heat.
- Use grounded plugs (shock-proof plugs) and wall outlets only. If the provided plug does not fit your outlet, consult an electrician to replace the outdated outlet.
- Lay the power cable in a manner that does not obstruct anyone. Make sure the power cable is not damaged or stepped on, particularly at the plug and at the exit of the unit.
- In case you have to disconnect the unit quickly from the mains, make sure the wall socket is easily accessible. Connect the unit as described in the instructions by the manufacturer.
- To completely disconnect the unit from the electric power, unplug the power cable.
- Do not use any extension cables.
- Use the accessories specified by the manufacturer only.

- Only use suitable stands, supports, carts or tables that ensure the unit does not tip over.  
If you place the unit on a cart, move it with caution to prevent injuries or damage resulting from tip-over.
- Unplug the unit during lightning storms or if you will not use it for a longer period of time.
- Refer all servicing to qualified service personnel only. Servicing is required if the unit has been damaged, e.g. if the power cable or power plug are damaged, if liquid or objects entered the unit, if it was subject to rain or any other kind of humidity, if it has been dropped or if it does not operate properly.
- Safety instructions to handle the battery - to prevent leakage of the batteries and related health hazards or damage to material follow the instructions below:
  - Mind the polarity of the batteries (+/-) when inserting. Use only similar batteries (manufacturer, carbon, alkaline, old, new) together.
  - Remove the batteries, if you will not use the unit for a longer period.
- To avoid electric shock or fire, do not expose the unit to rain or humidity.
- Do not expose the unit to dripping or splashing water. Do not place any container with liquids (beverages, vases etc.) on the unit.
- Do not place any open fire (candles etc.) on the unit.
- If you use an outdoor antenna, make sure to ground the antenna to provide protection against voltage surges and build up of static charges.



This symbol indicates additional safety instructions in the text.



This symbol indicates instructions to facilitate the operation.

# Unpacking and Setup

## Location

### ► *The Best Distance*



The distance when watching programs on a television of this size should be approximately 2.2 to 2.7 metres. If the distance is too large or too small, this may lead to strain of your eyes. This may impair your health.

### ► *Background Light/Reflections*

When watching television at night, the television should not be the only source of light in the room. The big difference of brightness between the screen and the background causes continuous dark-light adaptation of the eyes. This leads to strain of the eyes and may cause headaches. It is better, if a dim, indirect light lights-up the environment of the television.

For the same reasons, make sure that no reflections on the screen impair the picture.

### ► *The Best Alignment*



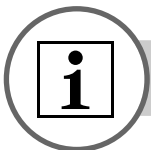
Choose a location that allows you to sit in a relaxed position. Otherwise, tension and further impairments to your health may be the consequence.

### ► *Additional Information on the Location*

- Do not expose the unit to direct sunlight.
- Avoid humid and/or dusty environments.
- Place the unit on level, non-vibrating surfaces.
- Do not place the unit close to the outlets of air conditioners or heaters.
- Make sure the unit is easily accessible from all sides.
- Make sure that no liquids can enter the unit.
- Avoid extreme changes of temperature to prevent humidity condensing in the unit.

## Intended purpose

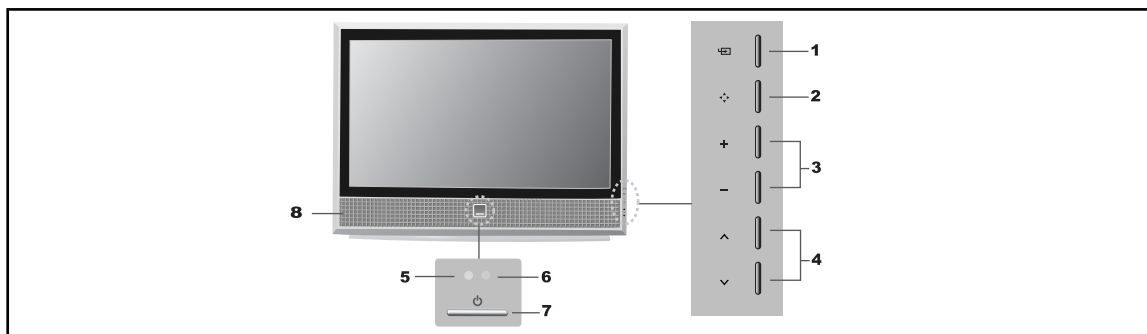
This is a unit for consumer electronics. It may only be used for private, non-industrial purposes. Furthermore the unit may only be operated indoors and not for commercial purposes.



Keep this user guide carefully.

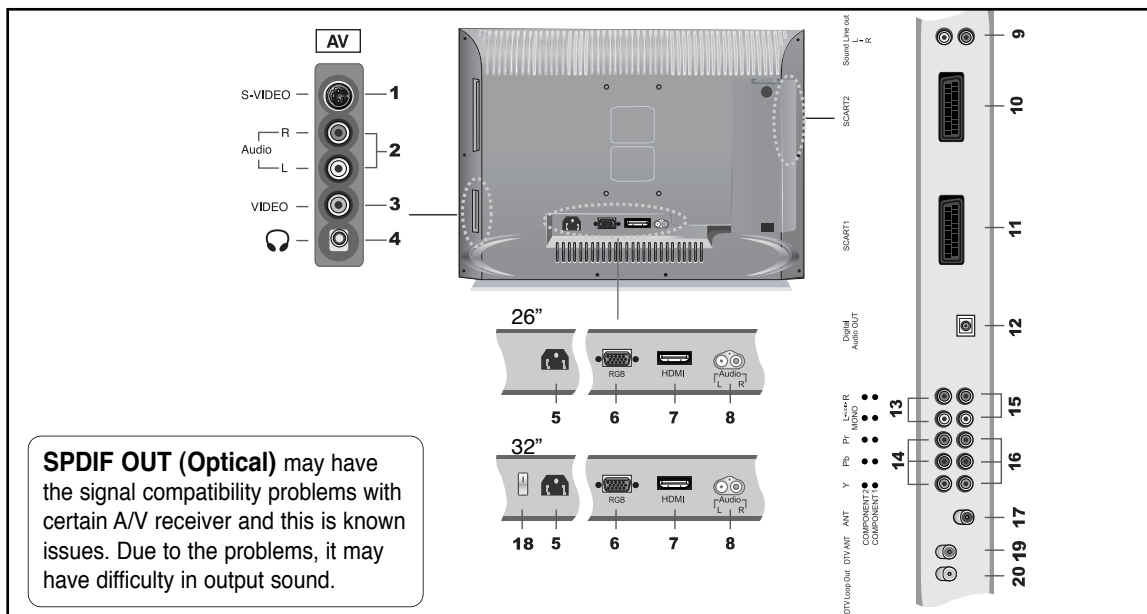
## Viewing the Control Panels

### Front View



- |                                 |                         |
|---------------------------------|-------------------------|
| 1 Input source selection button | 5 Remote control sensor |
| 2 MENU selection button         | 6 Power Indicator       |
| 3 Volume adjustment button      | 7 Power button          |
| 4 Channel selection button      | 8 Speaker               |

### Rear View















**SPDIF OUT (Optical)** may have the signal compatibility problems with certain A/V receiver and this is known issues. Due to the problems, it may have difficulty in output sound.

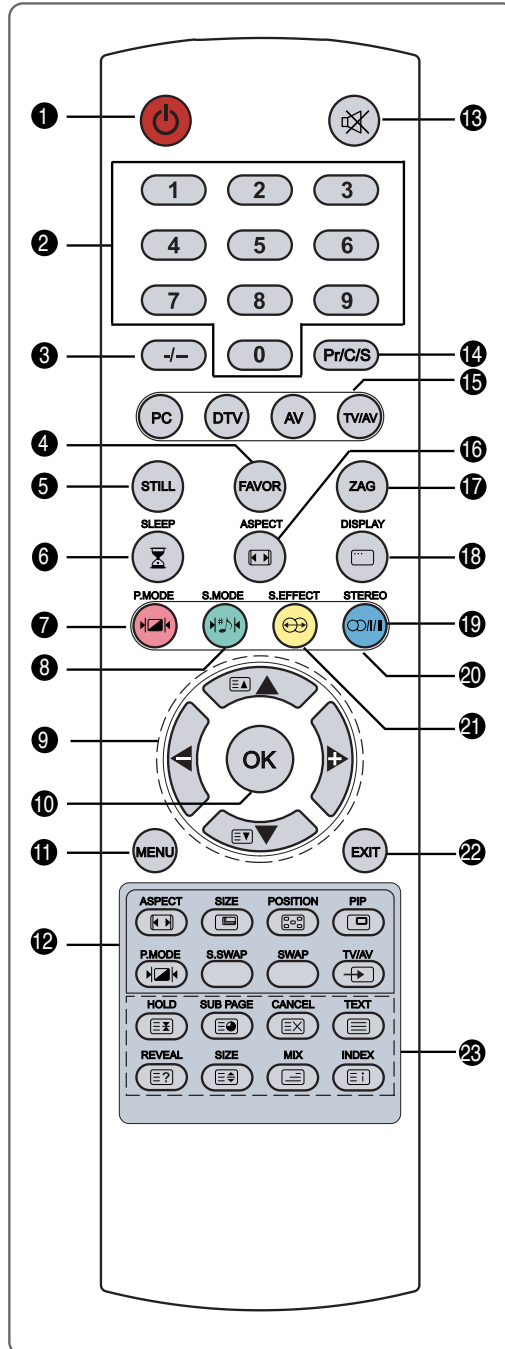
- |                             |  |
|-----------------------------|--|
| 1 AV S-VIDEO Input          | 12 Digital Audio Out (Optical)<br>- 5.1 channel sound output for Home-theater system through the optical cable |
| 2 AV AUDIO Input            | 13 DTV/DVD Audio Input (COMPONENT2)  |
| 3 AV VIDEO Input            | 14 DTV/DVD Video (Y/Pb/Pr) Input (COMPONENT2)  |
| 4 Headphone Jack            | 15 DVD Audio Input (COMPONENT1)  |
| 5 Power Inlet               | 16 DVD Video (Y/Pb/Pr) Input (COMPONENT1)  |
| 6 Analog RGB Input (PC)     | 17 Antenna Input Jack  |
| 7 HDMI Input                | 18 Power Switch (Main) (32" model only)  |
| 8 Audio Input (PC)          | 19 DTV Antenna (Option)  |
| 9 Sound Line Out            | 20 DTV Loop Out (Option)   |
| 10 Euro-scart Jack (SCART2) |  |
| 11 Euro-scart Jack (SCART1) |  |













## Remote Control

### Remote Control

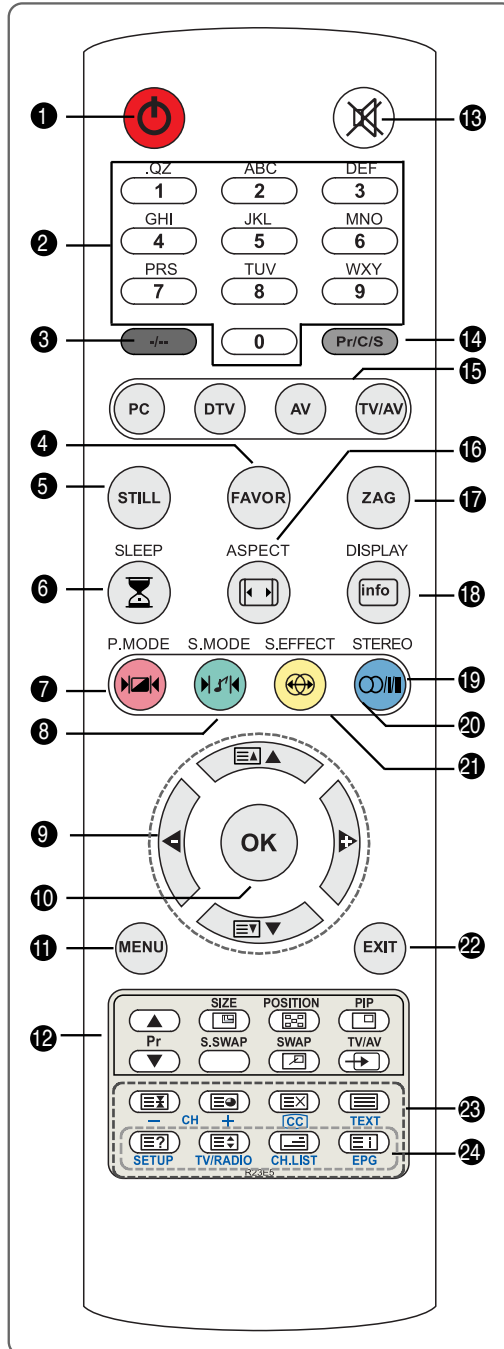
- 1 Power On/Off button
- 2 Numeric buttons
- 3 One/Two-Digit Channel Selection
- 4 Favorite Channel Selection
- 5 Picture Still
- 6 Sleep Timer
- 7 Picture Mode Selection  
()
- 8 Sound Mode Selection  
()
- 9 Control the Cursor in the OSD Menu  
▲ () and ▼ ()  
(Channel Up / Down)  
(Teletext Page Up / Down)  
◀ and ▶  
(Volume Up / Down)
- 10 MENU Confirmation
- 11 Display OSD Menu
- 12 PIP Functions:
  - PIP On/Off ()
  - Position Selection ()
  - Size Selection ()
  - Picture Mode Selection  
()
  - Swapping main and sub picture ()
  - Selecting the Input TV/AV ()
  - PIP Picture Size Selection  
()
  - Swapping main and sub Sound()



- 13 Temporary Sound Mute
- 14 TV Input Source Selection
- 15 External Source Input Selection
- 16 Picture Size Selection
- 17 Previous Channel
- 18 TV Information Display
- 19 Sound Selection : Mono/Stereo Dual Select  
()
- 20 Fastext Functions
- 21 Sound Effect Selection  
()
- 22 - Exit from the OSD  
- Display the current time when the OSD is off
- 23 Teletext Functions:
  - Teletext On/Off ()
  - Cancel ()
  - Sub Page On ()
  - Page Hold ()
  - Index ()
  - Mix ()
  - Size ()
  - Reveal ()

## Remote Control (For DTV)

- 1 Power On/Off button
- 2 Numeric buttons
- 3 One/Two-Digit Channel Selection
- 4 Favorite Channel Selection
- 5 Picture Still
- 6 Sleep Timer
- 7 Picture Mode Selection (P.MODE)
- 8 Sound Mode Selection (S.MODE)
- 9 Control the Cursor in the OSD Menu  
▲ (▲) and ▼ (▼)  
(Channel Up / Down)  
(Teletext Page Up / Down)  
◀ and ▶  
(Volume Up / Down)
- 10 MENU Confirmation
- 11 Display OSD Menu
- 12 PIP Functions:
  - PIP On/Off (PIP)
  - Position Selection (POSITION)
  - Size Selection (SIZE)
  - Swapping main and sub Picture (SWAP)
  - Selecting the Input Source (TV/RADIO)
  - Swapping main and sub Sound (S.SWAP)
  - PIP Channel Selection (Pr)
- 13 Temporary Sound Mute
- 14 TV Input Source Selection



- 15 External Source Input Selection
- 16 Picture Size Selection
- 17 Previous Channel
- 18 TV Information Display
- 19 Sound Selection : Mono/Stereo Dual Select (S.MODE)
- 20 Fastext Functions
- 21 Sound Effect Selection (S.EFFECT)
- 22 Sound Effect Selection - Exit from the OSD - Display the current time when the OSD is off
- 23 Teletext Functions:
  - Teletext On/Off (TEXT)
  - Cancel (CH)
  - Sub Page On (CC)
  - Page Hold (CH)
  - Index (CH)
  - Mix (CH)
  - Size (SIZE)
  - Reveal (CH)
- 24 Digital Video Broadcast Functions :
  - **SETUP** : Set options in Digital TV menu.
  - **TV/RADIO** : Select Digital TV or Radio function.
  - **CH.LIST** : Display Digital TV channel list stored in TV.
  - **EPG** : Display Program Guide of Digital TV.
  - **CH +** : DTV Channel Up /Down
  - **CC** : Closed Caption On/Off
  - **TEXT** : Display Teletext

## Connections and Start of Operation

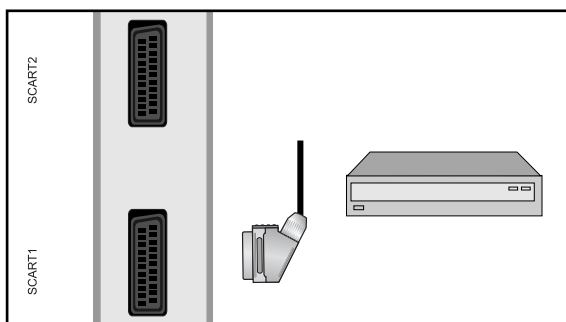
### Connections for TV Reception

You can connect roof aerial, cable reception, a satellite receiver, set top boxes (DVB-T) or video recorders etc. to the unit.

### Connecting a Satellite Receiver, a Set Top Box or a Video Recorder

#### ► *Connecting to a Device with SCART Socket*

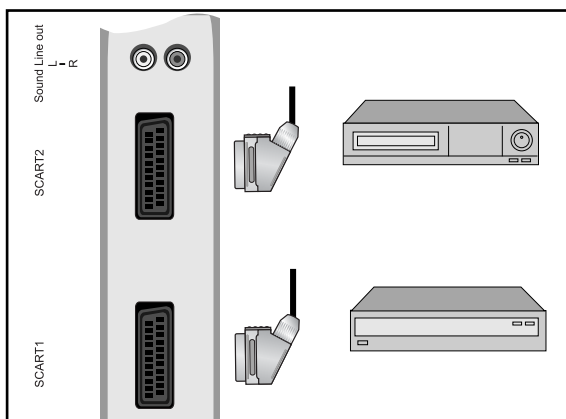
Use a SCART cable to connect the units.



- 1 Plug the SCART cable into the socket [SCART1] on the television set.
- 2 Plug the other end of the SCART cable into the output socket on the receiver.

#### ► *Connecting to two Devices with SCART Socket*

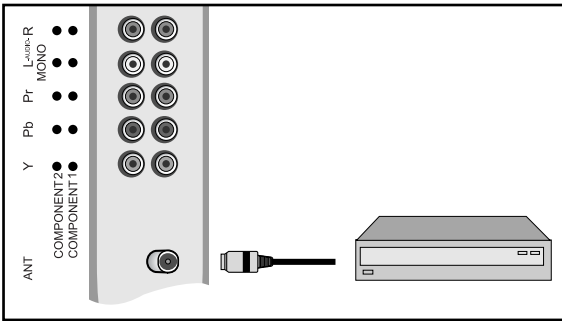
The unit has two SCART sockets. You can connect two devices by the SCART sockets at the same time. On how to select one device for display on the screen, see "Select Source" on Page 37.



- 1 Connect the first device as described above.
- 2 Plug the SCART cable of the second device into the socket [SCART2] on the television set.
- 3 Plug the other end of the SCART cable into the output socket on the receiver.

## ► Connecting to a Device without SCART Socket

Use a coaxial cable to connect the units.

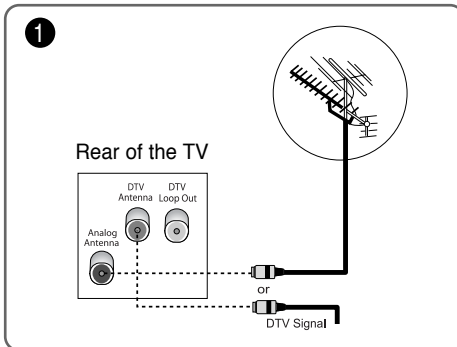


- 1 Plug the coaxial cable into the socket [ANT] on the television set.
- 2 Plug the other end of the coaxial cable into the output socket on the receiver.

## Connecting to the Roof Aerial



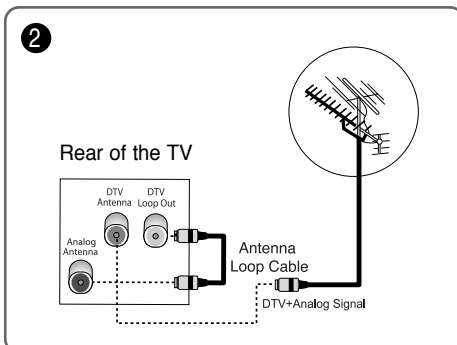
Ensure that the roof aerial is properly installed and grounded.  
If the roof aerial is not properly grounded, voltage may damage the unit and static charges may build up.



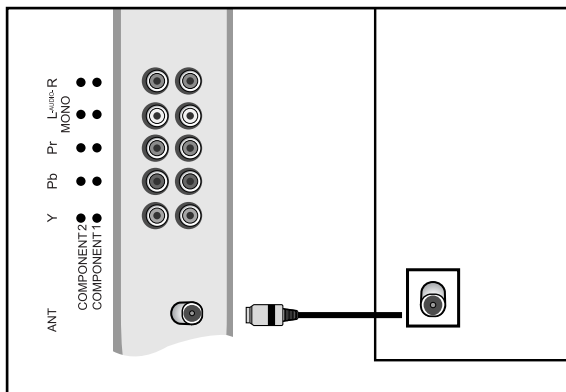
- 1 Plug the coaxial cable of the roof aerial into the socket [ANT].

☛ ① If both analog and digital signals are available, connect each signal to the corresponding antenna jack.

- ② If only one antenna signals is available connect the signal to DTV Antenna input jack and then connect the signal of the DTV Loop Out jack to the analog antenna jack with supplied antenna loop cable. (Option)



## Connecting to Cable Reception



- 1 Plug the coaxial cable of the cable reception into the socket [ANT].

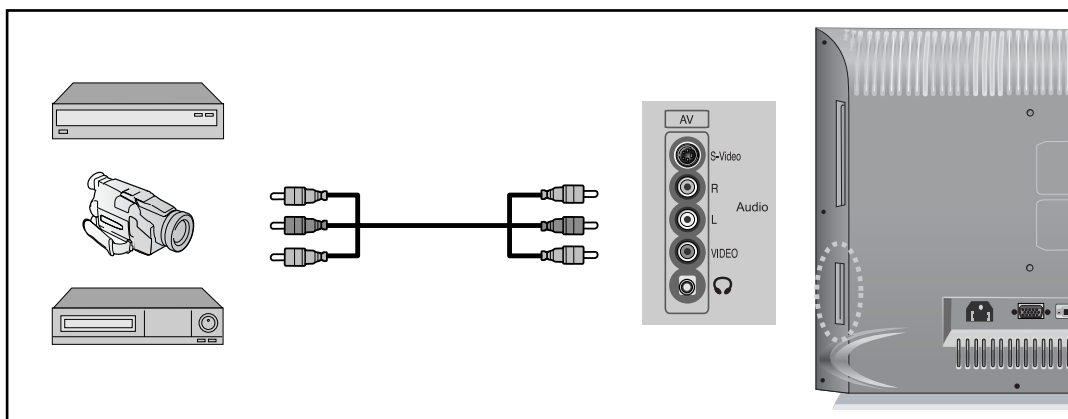
## Connecting to Headphones

The output for the headphone is on the right rear side of the unit. If you connect a headset to the unit, the main speaker will be switched off.

## Connecting Camcorders and Video Games

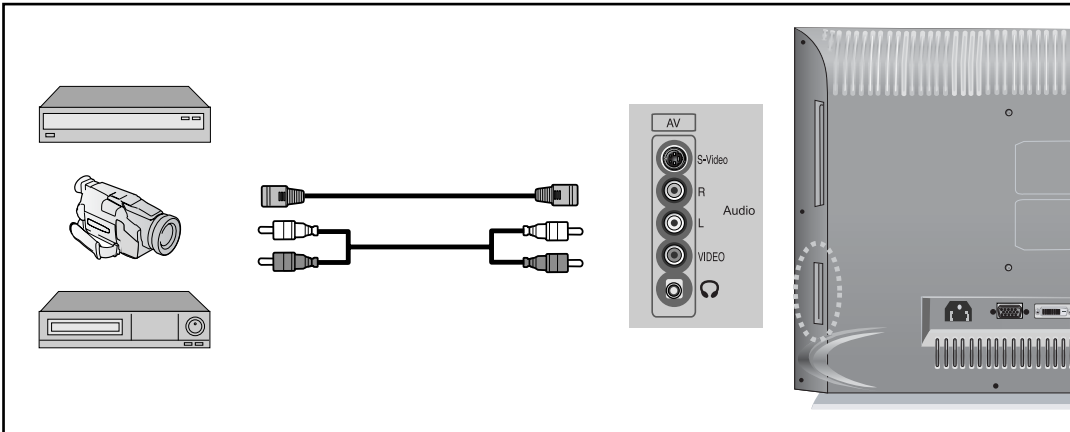
You can use the television set to connect camcorder and video games. Use either the cinch sockets or one of the SCART sockets.

### ► *Connecting Camcorders and Video Games by AV Cable*



- 1 Connect the AV cables according to the colours (red/white/yellow) to the sockets [VIDEO/AUDIO IN] and the output sockets of the external devices.

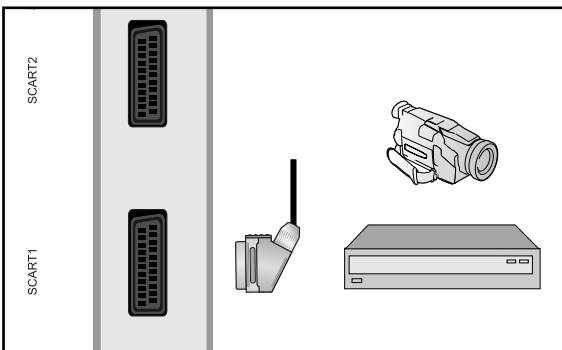
## ► Connecting Camcorders and Video Games by S-Video Cable



- 1 Connect the S-Video cable to the socket [S-VIDEO] and the output sockets of the external devices.
- 2 Plug the audio cable into the socket [AUDIO IN] on the television set and connect the cable to the output socket of the external device.

## ► Connecting Camcorders and Video Games by SCART Cable

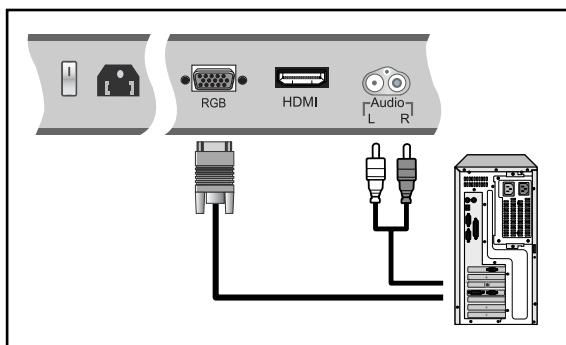
Use a SCART cable with a SCART plug on one end and AV plugs on the other end.



- 1 Plug the SCART cable into the socket [SCART1] on the television set and connect the other end with the output sockets of the external devices.

## Connecting to a Computer

You can use the television set as a monitor for the computer. This is possible parallel to television operation. Use a 15-pin D-Sub cable to connect the television set to the computer.



- 1 Plug the cable into the output socket of the graphic board.
- 2 Plug the other end of the cable into the socket [RGB].
- 3 Connect the audio cable according to the colours to the socket [AUDIO] on the television set and the output sockets of the graphic board.

Adjust the settings of the television picture corresponding to the settings for television operation. See "Settings" on Page 17.

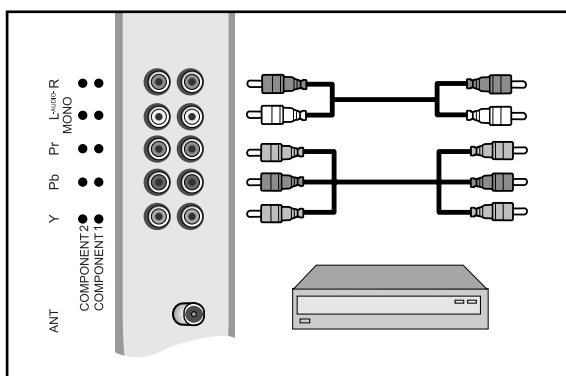


If the television set does not receive any signal, adjust the output of the computer. For information on how to setup the computer, refer to the corresponding manual of the computer.

## Connecting to External Devices with Component Input

You can use the television set to connect DVD recorder/player and set-top-box. Connect the audio and video cables from the external equipment's output jacks to the TV input jacks, as shown in the figure. When connecting the TV to external equipment, match the jack colors.

### ► Connecting to External Devices



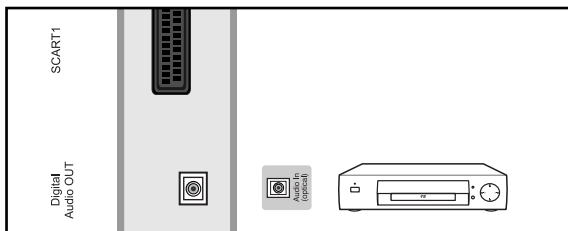
- 1 Plug the video cable according into the colours to the output sockets of the external devices.
- 2 Plug the other end of the video cable according to the colours into the Y, Pb, Pr sockets [COMPONENT1 or COMPONENT2] on the television set.
- 3 Plug the audio cable according to the colours to the audio output sockets of the external devices.
- 4 Plug the other of the audio cable according to the colours into the audio input socket on the television set.



If the external equipment has mono audio output, connect it only to left socket of the audio input/output.

## Connecting the Digital Audio Output

You can Connect optical digital audio cable to "DIGITAL AUDIO OUT" on the rear of the TV and the other end to "DIGITAL AUDIO IN" of the equipment with a digital output to enjoy digital sound (Multi-Channel Surround Sound, Stereo, Dolby Sound).



### 1 Connecting the OPTICAL Port

Connect the OPTICAL port of the DIGITAL AUDIO OUT on the rear of the TV to the optical audio input of the DVD Home Theater System (or AV Receiver Amplifier) using the optical cable.

Decrease the TV volume to enjoy the more clear and grand sound through separate speakers.



Refer to corresponding user's manual from the manufacturer for connecting the speaker to the DVD Home Theater System or AV Receiver Amplifier.

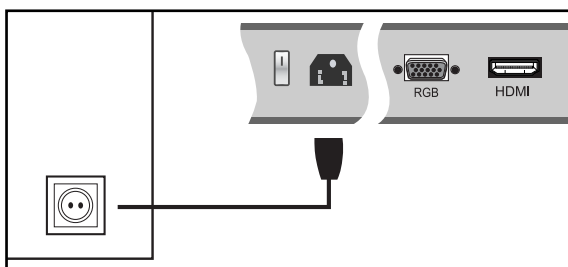


**SPDIF OUT (Optical)** may have the signal compatibility problems with certain AV receiver and this is known issues. Due to the problems, it may have difficulty in output sound.

## Connecting Several Devices

You can use the connections described parallel . On how to select the desired source see "Select Source" on Page 36 and "Select Signal Source for PIP" on Page 38.

## Connecting Mains Cable



### 1 Connect the mains cable.

## Connecting to the HDMI Connection

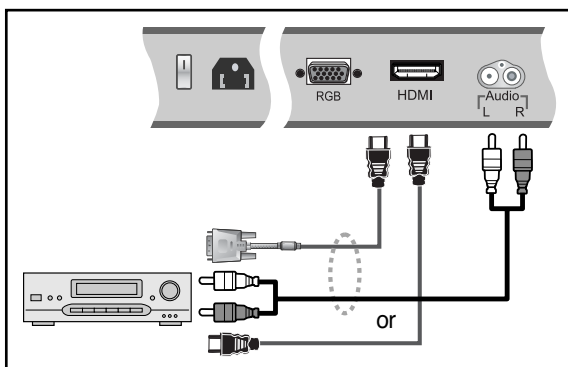
This can be applied if there is the HDMI Output connector on the external device.

### What is HDMI (High-Definition Multimedia Interface)?

HDMI is a next generation interface that connects the digital audio and video signals using only one cable without compression. The sound signal supports multi-channel (5.1 Channel). So it is called a multimedia interface rather than a video terminal. The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) and supports multi channel audio.



# Connections and Start of Operation



## 1 Connecting HDMI/DVI Cable

Connect the HDMI/DVI cable and audio cable from the output jacks on the DVD player or Set-top box to the [HDMI] input jack and PC Audio input jacks on the TV.

## 2 Connecting HDMI Cable

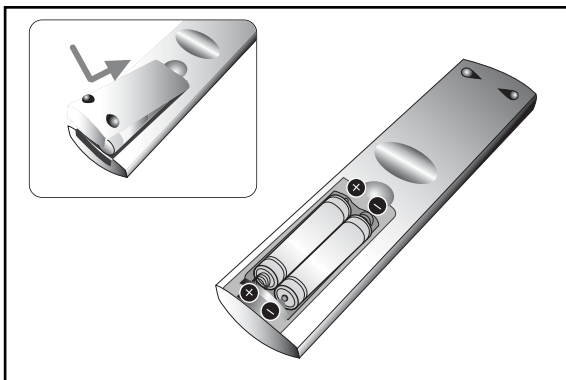
Connect the HDMI cable from the output jack on the DVD player or Set-top box to the [HDMI] input jack on the TV.

## Inserting the Batteries

For the operation of the remote control 2 type R03 1.5V Size AAA batteries are included in the delivery.



When inserting the batteries, ensure the polarity is matched correctly (+ and - marking on the battery and on the unit).



- 1 Remove the cover on the back of the remote control and insert the batteries.

## ► Notes on Handling Batteries

When used properly batteries are a safe and reliable source of energy. However, when misused or not used according to the intention, they may leak. In extreme cases there is a danger of explosion or fire. Therefore please understand that the manufacturer will not be liable in case of misuse or improper use. For detailed information on how to handle the batteries, please contact the respective manufacturer.




Never try to recharge non-rechargeable batteries.



Disposal of batteries is clearly regulated by legal acts. Consumer quantities of batteries must be taken back by the dealer or by local public collectors. Never discharge batteries together with common waste. Make use of the free public collection system! Protect your environment. Return used batteries.

# Settings

## Switching On

- 1 Press the power switch (main) on the back of the unit. (32" model only)
- 2 Press  on the remote control. This switches the unit on and it can be operated using the remote control.




If it is not explicitly stated otherwise, it will be assumed that the unit and the TV set are switched on and will be operated by the remote control.



By default, the unit is set to the English language. For information on how to change the on-screen language later, refer to: "Set Screen Language" on page 25.

## Switching Off

### ► Stand by

- 1 Press  on the remote control.



Please note that the unit also consumes a little power when in stand by mode.

### ► Switch Stand by Off

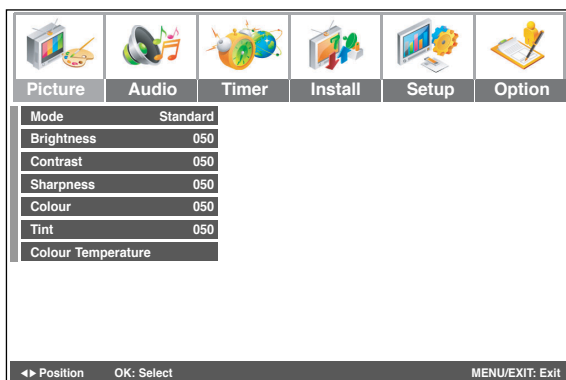
- 1 Press the power switch (main) on the back of the unit. (32" model only)  
Now the unit is switched off completely and does not consume any power.

## Setting up for Operation

You can adjust various settings of the unit to adapt it to your requirements.

## Open, Select and Close Menus

The settings of the unit are accessible via menus. To navigate in the menus proceed as follows:



- 1 Press **MENU**.  
The main menu opens. The submenu selected last will be displayed.
- 2 If necessary, press **MENU** to return to the main menu.
- 3 Press **◀** or **▶** to select the desired menu.  
Or
- 4 Press **▲** or **▼** to select the desired sub menu.
- 5 Press **◀** or **▶** to set the desired sub menu.
- 6 Press **MENU** to move one menu level up.
- 7 Press **▲** or **▼** to select the desired setting.
- 8 Press **OK** to activate the desired setting.
- 9 Press **EXIT** to save the settings.

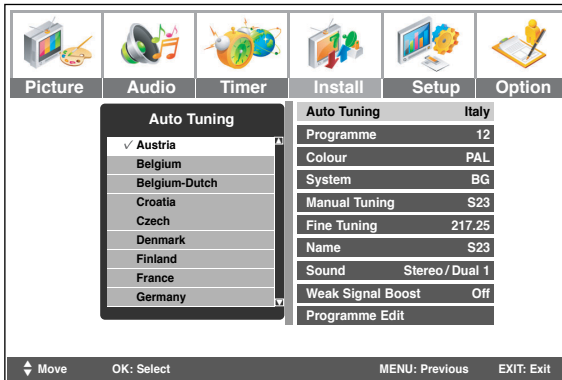
## Tuning

### ► Starting Automatic Tuning TV Stations

Use this feature to start automatic tuning. The TV channels will be tuned and stored. Later you can rearrange the sorting of the TV channels as you wish.



You only need to tune the TV channels, if the device is connected to a roof aerial. If you use a satellite receiver, a decoder or a similar device, the signal of this device will be shown. Press **TV/AV** and select the desired device.



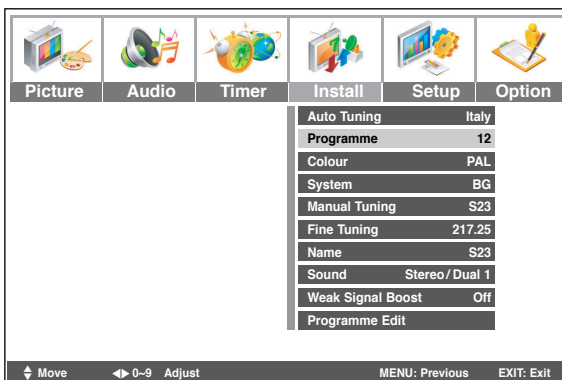
- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **INSTALL**.
- 3 Press **▲** or **▼** and select **AUTO TUNING**.
- 4 Press **OK**.
- 5 Select the country where you want to operate the unit.
- 6 Press **▲** or **▼** to select the desired setting.
- 7 Press **OK** to start tuning.  
Press **MENU** to interrupt tuning.  
The tuning starts and the TV channels are listed.
- 8 After tuning is completed a menu in which you can make the settings opens.



You can also make the settings later. Note that TV must be selected as a signal source for this menu to be active.

## Change channel

Use this function to set the channel for individual stations.



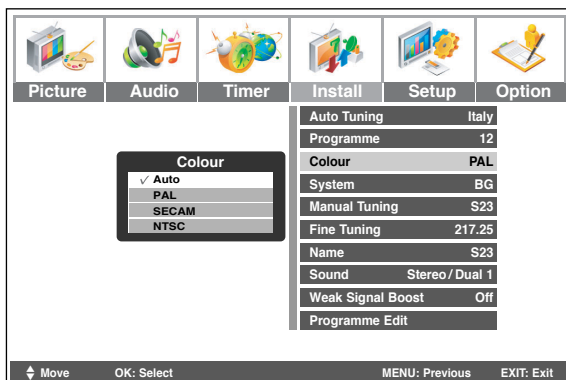
- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **INSTALL**.
- 3 Press **▲** or **▼** and select **PROGRAMME**.
- 4 Press **◀** or **▶** and select the desired channel.
- 5 Adjust the settings in the other menus.
- 6 Press **EXIT** to save the settings.

## Set Colour System

Use this function to set the television signal to your national television standard.



These settings are made automatically by the automatic tuning function. You should only change the settings described in this section, if you are familiar with the reception of television signals.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **INSTALL**.
- 3 Press **▲** or **▼** and select **COLOUR**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.

The following settings are available:  
Auto, PAL, SECAM, NTSC

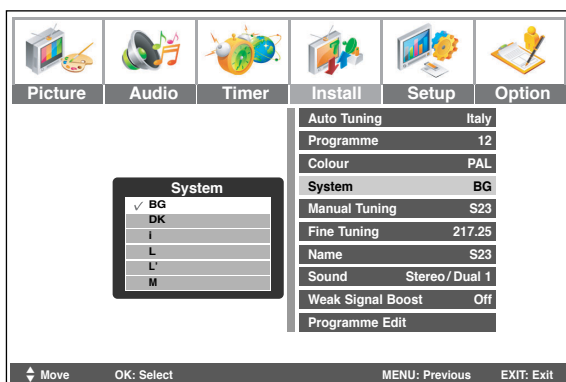
The automatic tuning function sets the unit automatically to the received signal. This is why the menu item **AUTO** cannot be selected.

## Set System

Use this function to set the sound signal to your national television standard.



These settings are made automatically by the automatic tuning function. You should only change the settings described in this section, if you are familiar with the reception of television signals.

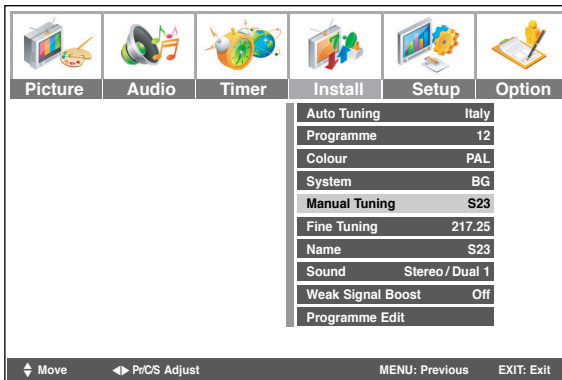


- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **INSTALL**.
- 3 Press **▲** or **▼** and select **SYSTEM**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.

The following settings are available:  
BG, DK, I, L, L', M

## Manual Tuning

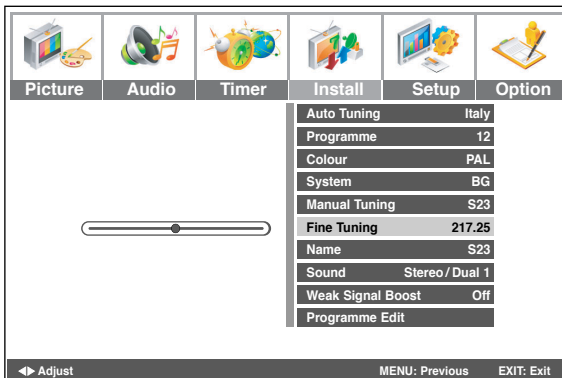
Use this function to tune the channels manually.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **INSTALL**.
- 3 Press **▲** or **▼** and select **PROGRAMME**.
- 4 Press **◀** or **▶** and select the desired channel.
- 5 Press **▲** or **▼** and select **MANUAL TUNING**.
- 6 Press **◀** or **▶** and select the desired channel.
- 7 Press **PrCS** to select **C** for standard channels or **S** for cable channels.
- 8 Adjust the settings in the other menus.
- 9 Press **EXIT** to save the settings.

## Fine Tuning

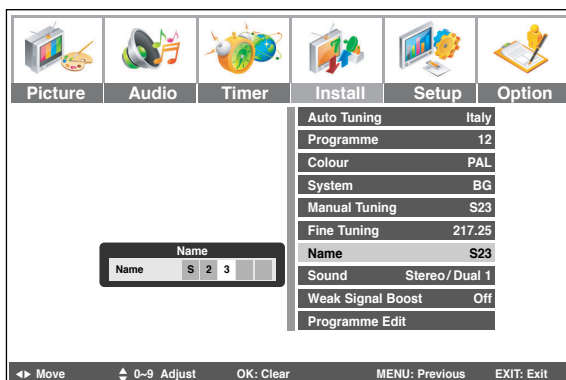
Use this function to adjust the tuning of the individual channels for a clearer picture.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **INSTALL**.
- 3 Press **▲** or **▼** and select **PROGRAMME**.
- 4 Press **◀** or **▶** and select the desired channel.
- 5 Press **▲** or **▼** and select **FINE TUNING**.
- 6 Press **◀** or **▶** and adjust the fine tuning.
- 7 Press **EXIT** to save the settings.

## Change Channel Name

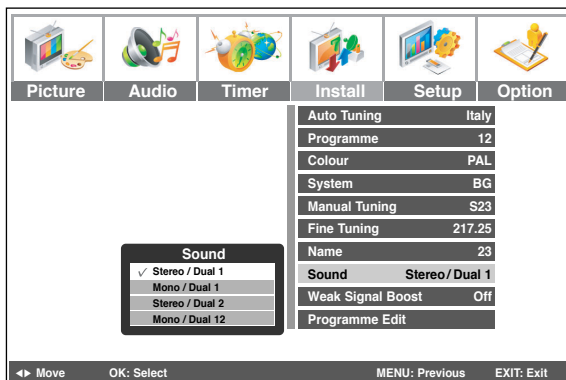
The names of the channels are programmed into the receiver. You can change these names manually.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **INSTALL**.
- 3 Press **▲** or **▼** and select **PROGRAMME**.
- 4 Press **◀** or **▶** and select the desired channel.
- 5 Press **▲** or **▼** and select **NAME**.
- 6 Press **OK**.
- 7 Press **▲** or **▼** to select the desired letter.
- 8 Press **◀** or **▶** to move to the next letter.
- 9 Press **EXIT** to save the settings.

## Sound Settings

The unit can record and play back stereo sounds.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **INSTALL**. Press **▲** or **▼** and select **SOUND**.
- 3 Press **OK**.
- 4 Press **▲** or **▼** to select the desired setting.
- 5 Press **EXIT** to save the settings.



This setting is only available if the tuner is receiving a signal from the roof aerial or the cable. If you have connected an external device, set the language on this device.

The following settings are available:

Stereo/Dual 1: National language stereo

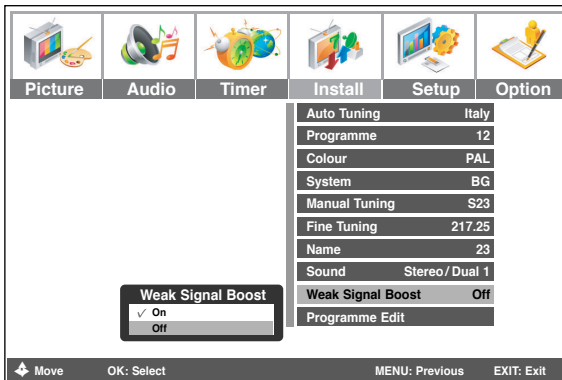
Mono/Dual 1: National language mono

Stereo/Dual 2: Foreign language of the program

Stereo/Dual 12: Both languages at the same time

## Improve Signal Quality

Use this function to improve poor signal quality.

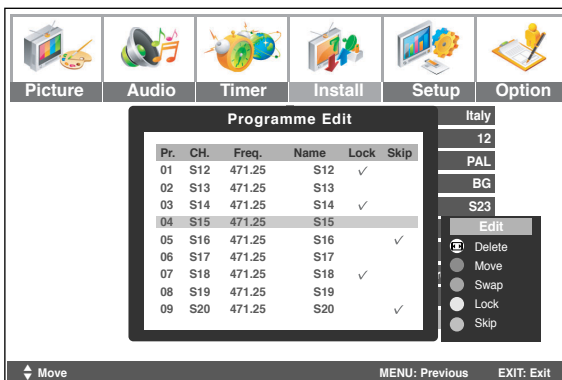


- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **INSTALL**.
- 3 Press **▲** or **▼** and select **WEAK SIGNAL BOOST**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.

The following settings are available :  
On/Off

## Set Channel

Use this function to set the settings for individual channels.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **INSTALL**.
- 3 Press **▲** or **▼** and select **PROGRAMME EDIT**.
- 4 Adjust the settings.
- 5 Press **EXIT** to save the settings.

The following settings are available:

Delete: Delete a channel.

Move: Move a channel up or down in the list of channels.

Swap: Swap selected channels.

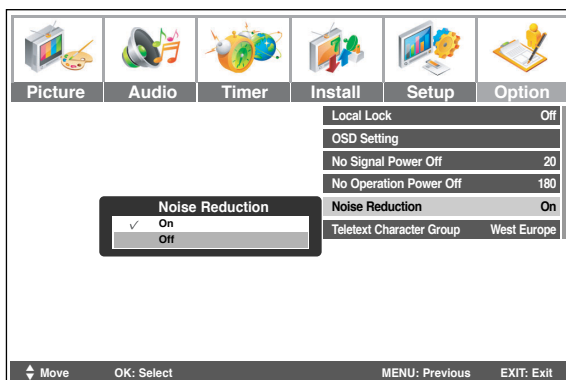
Lock: Lock channel

Skip: Skip channels when scrolling



## Reduce Noise

Use this function to reduce picture noise.

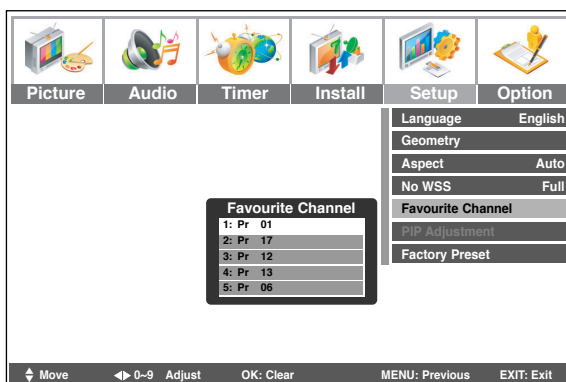


- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **OPTION**.
- 3 Press **▲** or **▼** and select **NOISE REDUCTION**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.

The following settings are available:  
On/Off

## Channel Groups

Use this function to store channels in the list of favourites with access by **FAVOR**.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **SETUP**.
- 3 Press **▲** or **▼** and select **FAVOURITE CHANNEL**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired line.
- 6 Press **◀** or **▶** to select the desired channel.
- 7 Press **EXIT** to save the settings.

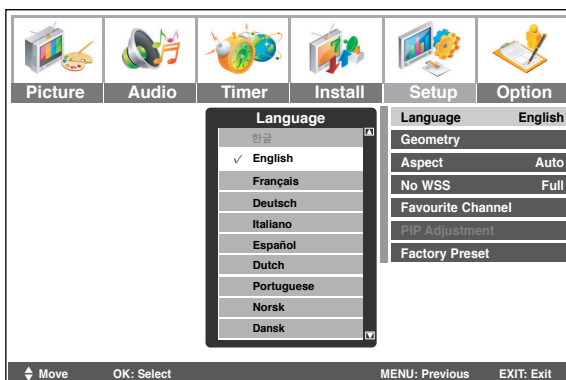
To delete a wrong entry press **OK**.

### ► Watch Favourite Channel

Press **FAVOR** to scroll through your favourite channels.

## Set Screen Language

By default, the unit is set to the English language. The screen display text can be displayed in several languages.

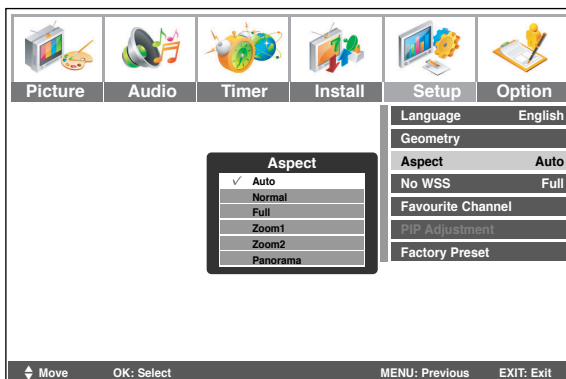


- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **SETUP**.
- 3 Press **▲** or **▼** and select **LANGUAGE**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.
- 7 To return to the main menu, press **MENU** several times.

## Set Aspect Ratio

### ► Set Wide Screen Format

Use this function to display programmes broadcast in wide screen format.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **SETUP**.
- 3 Press **▲** or **▼** and select **ASPECT**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.

The following settings are available:

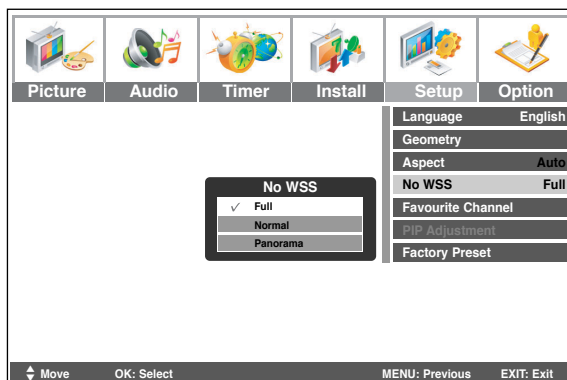
- Auto:** Sets the display automatically to the broadcast format.
- Normal:** The format 16:9 is suppressed. The format 4:3 is not adapted a black area is displayed on the left and the right.
- Full:** The format 16:9 is displayed as broadcast. The format 4:3 is horizontally spread.
- Zoom1:** The format 4:3 is vertically spread.
- Zoom2:** Like zoom1 but the whole picture is moved upwards so that text at the bottom of the display becomes visible.
- Panorama:** The format 16:9 is displayed as broadcast. The format 4:3 is horizontally spread. In this the outer areas of the picture are modified more than the centre of the picture.



You can scroll through the settings while watching. For this, press **ASPECT**.

## ► Display if no Wide Screen Signal is Received

Most programs are broadcast together with a signal describing the format of the picture. With this function you can set the way the picture is displayed, if no such signal is received. This function is only available, if you have set the picture format to AUTO.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **SETUP**.
- 3 Press **▲** or **▼** and select **NO WSS**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.

The following settings are available :

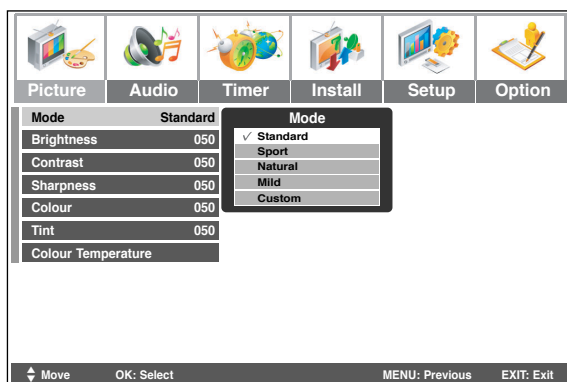
**Normal:** The format 16:9 is suppressed. The format 4:3 is not adapted a black area is displayed on the left and the right.

**Full:** The format 16:9 is displayed as broadcast. The format 4:3 is horizontally spread.

**Panorama:** The format 16:9 is displayed as broadcast. The format 4:3 is horizontally spread. In this the outer areas of the picture are modified more than the centre of the picture.

## Set Picture Mode

Use this function to adapt the picture optimally to the content. You can also adapt the sound modes for these settings. See "Adjust Individual Audio Frequencies" on page 28.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶**, and select **PICTURE**.
- 3 Press **▲** or **▼**, and select **MODE**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.

The following settings are available :

**Standard:** Setting for a bright background of the television set.

**Sport:** Setting for a clearer picture.



**Natural:** Setting for films and music.



**Mild:** Setting for a dark background of the television set.

**Custom:** Select this mode if you want to adjust the settings individually. See "Additional Picture Settings" on page 27.

You can also select the picture mode manually. For this, press **PMODE**.

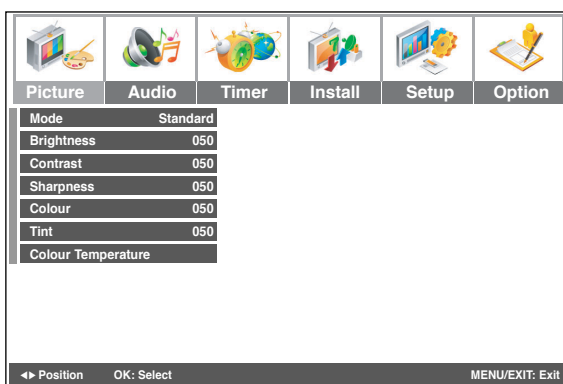
If you use the PIP function, you can change the picture mode as follows:











To	Press
Change the picture mode in the main picture	
Change the picture mode in the sub picture	

\* There is no the  in 2-tuner model. If you want to change the picture mode in the sub picture, first you select the sub picture by pressing the OK, and change the picture mode using the .

## ► Additional Picture Settings

Use this functions to adjust the picture settings individually, if you have selected the picture mode Custom.



- 1 Press . To return to the main menu, press  several times.
- 2 Press  or  and select PICTURE.
- 3 Press  or  to select the desired menu.
- 4 Press  to open the desired menu.
- 5 Press  or  to select the desired setting.
- 6 Press  to save the settings. The settings will be saved in the picture mode Custom.

The following settings are available:

Brightness: Brightness of the picture

Contrast: Contrast of the picture

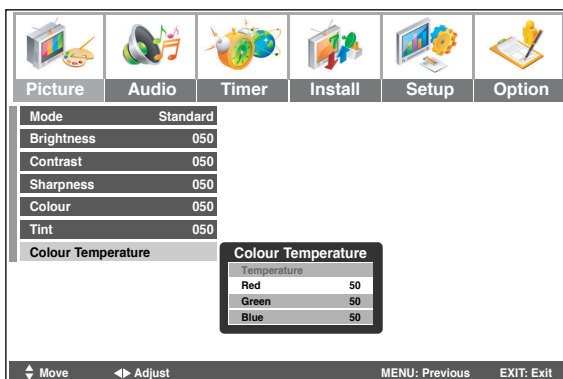
Sharpness: Sharpens the edges of the objects











Colour: Adjusts the intensity of the colours

Tint: Sets the hue

## ► Set Individual Colour Channels

Use this function to adjust the intensity of the individual colour channels.

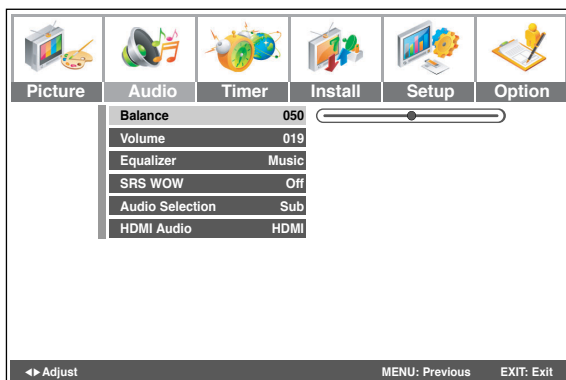


- 1 Press . To return to the main menu, press  several times.
- 2 Press  or  and select PICTURE.
- 3 Press  or  and select COLOUR TEMPERATURE.
- 4 Press .
- 5 Press  or  to select the desired setting.
- 6 Press  to save the settings.

The following settings are available:  
Red/Green/Blue

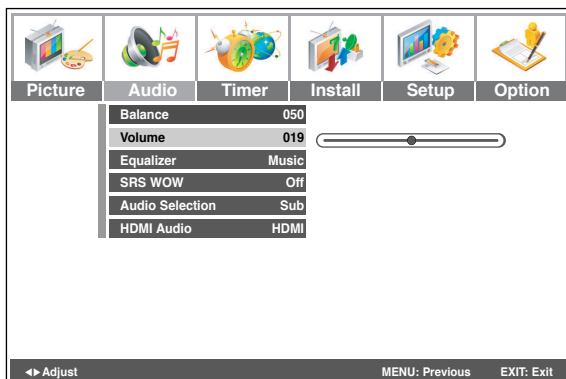
## Audio Settings

### ► Set Balance



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select AUDIO.
- 3 Press **▲** or **▼** and select BALANCE.
- 4 Press **OK**.
- 5 Press **◀** or **▶** to select the desired setting.
- 6 Press **EXIT** to save the settings.

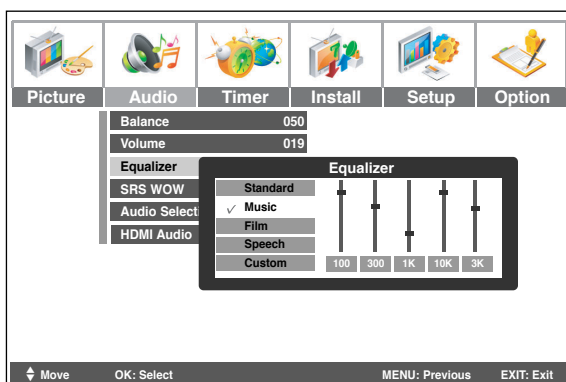
### ► Set volume



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select AUDIO.
- 3 Press **▲** or **▼** and select VOLUME.
- 4 Press **OK**.
- 5 Press **◀** or **▶** to select the desired setting.
- 6 Press **EXIT** to save the settings.

## Adjust Individual Audio Frequencies

Use this function to adjust the individual frequency ranges. The settings are allocated to the different picture modes. You can only adjust these settings, if the SRS function is turned off.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select AUDIO.
- 3 Press **▲** or **▼** and select EQUALIZER.
- 4 Press **OK**.
- 5 Press **◀** or **▶** to select the desired frequency.
- 6 Press **▲** or **▼** to select the desired setting.
- 7 Press **EXIT** to save the settings.

## Adjust Medium and Low Frequencies

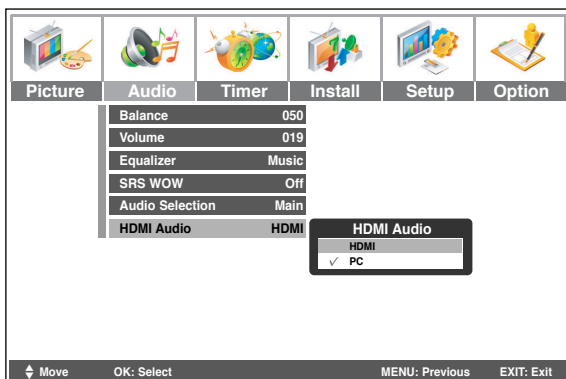
Use this function to boots the medium and low frequencies to create a better surround sound. For this the SRS WOW® technology is used. SRS WOW is a registered trademark.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select AUDIO.
- 3 Press **▲** or **▼** and select SRS WOW.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.

The following settings are available:  
On/Off

## Set the Audio Input (HDMI or PC)



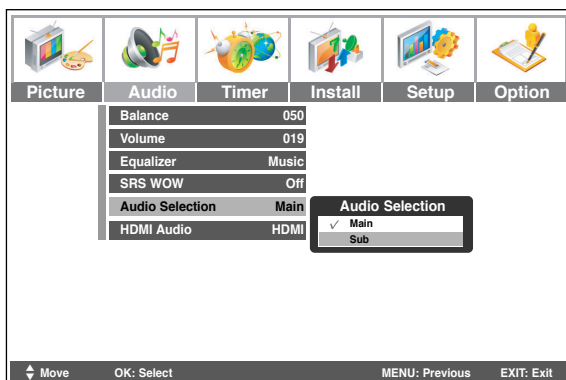
- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select AUDIO.
- 3 Press **▲** or **▼** and select HDMI AUDIO.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired settings.
- 6 Press **EXIT** to save the settings.

The following settings are available:  
HDMI/PC

When connecting the PC to your TV with the HDMI/DVI cable, you should select PC.

## Set Sound Source

Use this function to set which sound you will hear when watching picture-in-picture mode.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select AUDIO.
- 3 Press **▲** or **▼** and select AUDIO SELECTION.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.

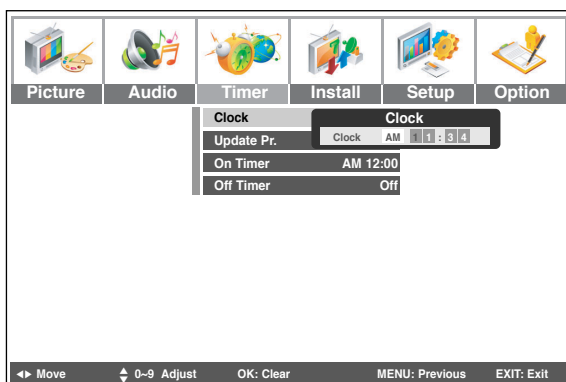
The following settings are available :

Main: You will hear the sound of the main screen

Sub: You will hear the sound of the small screen

## Set Time

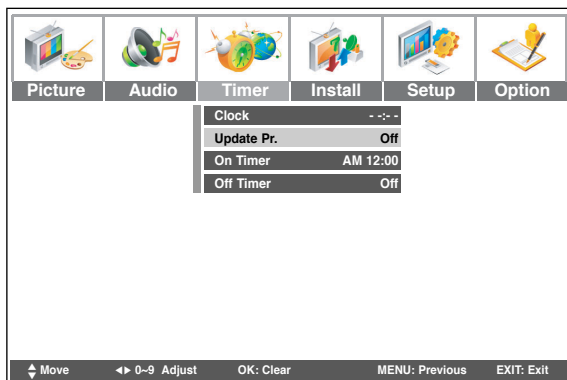
In order to set the correct times for switching on and off automatically, the clock in the receiver must be set correctly. By default, the unit receives the current time from the selected station. You can enter the time manually as well. Enter the time in 12-hour format.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select TIMER.
- 3 Press **▲** or **▼** and select CLOCK.
- 4 Press **OK**.
- 5 Press **▲** or **▼** and select AM for times between 0:00 hours and 12:00 hours or PM for the times between 12:00 hours and 24:00 hours.
- 6 Enter the time using the key pad.
- 7 Press **EXIT** to save the settings.

## ► Set Time by Station

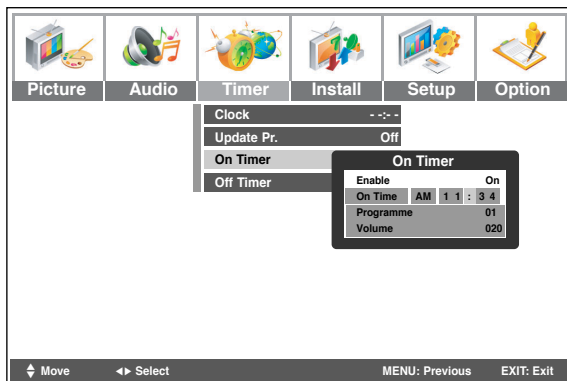
Use this function to set the time of the unit to the time broadcast by the station.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **TIMER**.
- 3 Press **▲** or **▼** and select **UPDATE PR.**
- 4 Press **◀** or **▶** and select the desired channel.
- 5 Press **EXIT** to save the settings.

## Set Switch on Time

Use this function to set a time when the unit turns on.

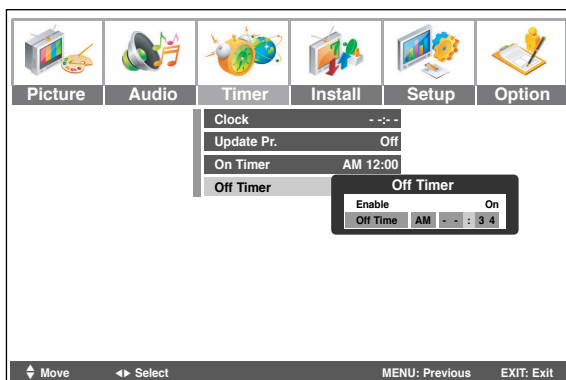


- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **TIMER**.
- 3 Press **▲** or **▼** and select **ON TIMER**.
- 4 Press **OK**.
- 5 Press **◀** or **▶** and select **ON** or **OFF**.
- 6 Press **▲** or **▼** and select **AM** for times between 00:00 hours and 12:00 hours or **PM** for the times between 12:00 hours and 24:00 hours.
- 7 Enter the time using the key pad.
- 8 Select the channel.
- 9 Set the volume.
- 10 Press **EXIT** to save the settings.



## Set Switch off Time

Use this function to set a time when the unit turns off.

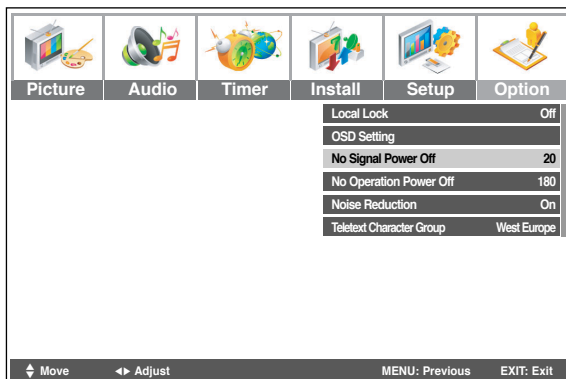


- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **TIMER**.
- 3 Press **▲** or **▼** and select **OFF TIMER**.
- 4 Press **OK**.
- 5 Press **◀** or **▶** and select **ON** or **OFF**.
- 6 Press **▲** or **▼** and select **AM** for times between 00:00 hours and 12:00 hours or **PM** for the times between 12:00 hours and 24:00 hours.
- 7 Enter the time using the key pad.
- 8 Press **EXIT** to save the settings.

## Automatic Switch off

### ► Automatic Switch off if no Signal is Received

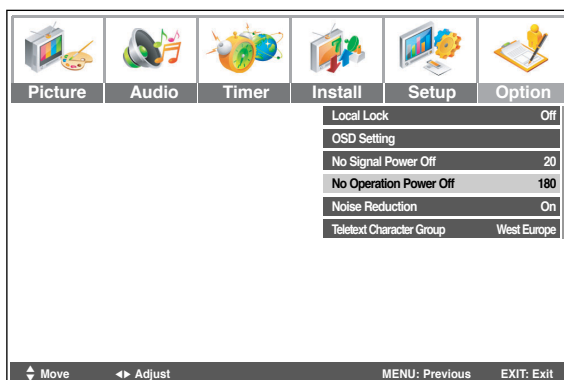
This function switches the unit automatically off, if no signal is received. (E.g. when a video tape was played completely and the video recorder turns off).



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **OPTION**.
- 3 Press **▲** or **▼** and select **NO SIGNAL POWER OFF**.
- 4 Press **◀** or **▶** and select the time.
- 5 Press **EXIT** to save the settings.

## ► Switch Off if no Key is Pressed

This function switches the unit automatically off, if no key is pressed for a longer time.

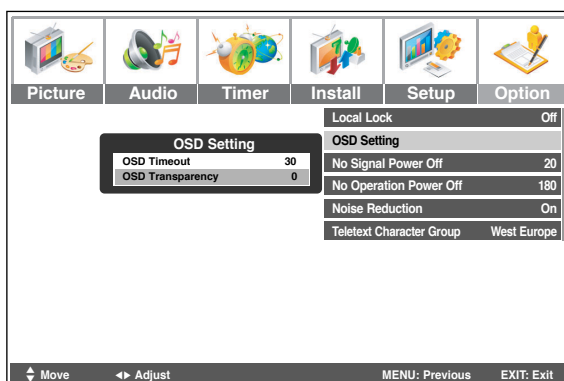


- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **OPTION**.
- 3 Press **▲** or **▼** and select **NO OPERATION POWER OFF**.
- 4 Press **◀** or **▶** and select the time.
- 5 Press **EXIT** to save the settings.

## Set On-Screen Display

### ► Set Duration

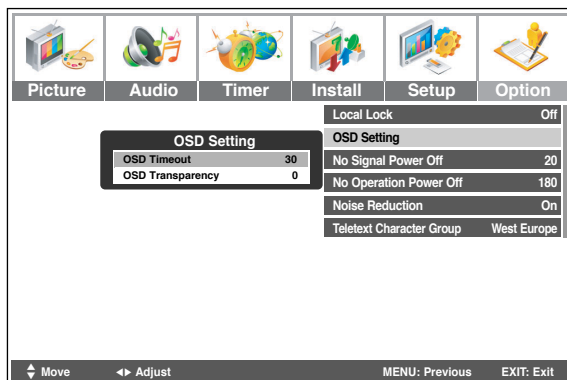
Use this function to set the time span for which the on-screen display will be shown.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **OPTION**.
- 3 Press **▲** or **▼** and select **OSD SETTING**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** and select **OSD TIMEOUT**.
- 6 Press **◀** or **▶** to select the desired setting.
- 7 Press **EXIT** to save the settings.

## ► Set Transparency

Use this function to set the transparency of the on-screen display.

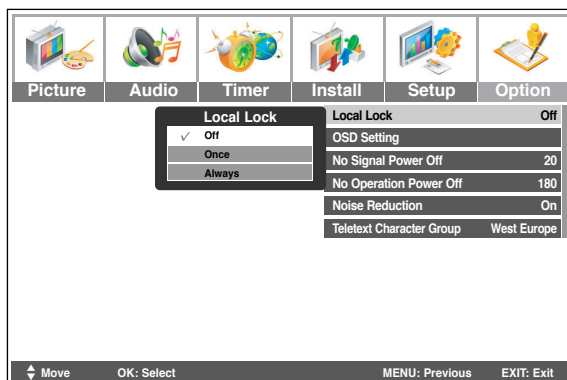


- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **OPTION**.
- 3 Press **▲** or **▼** and select **OSD SETTING**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** and select **OSD TRANSPARENCY**.
- 6 Press **◀** or **▶** to select the desired setting.
- 7 Press **EXIT** to save the settings.

## Child Lock

You can lock the keys on the front panel of the unit. Then the operation is only possible by the remote control. In this case keep the remote control out of the reach of children.

## ► Activate Child Lock



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **OPTION**.
- 3 Press **▲** or **▼** and select **LOCAL LOCK**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **EXIT** to save the settings.

If a deactivated key is pressed the message TV Key will appear

The following settings are available:

Off: No key lock.

Once: The key lock is active until the unit is turned on or off once using the remote control.

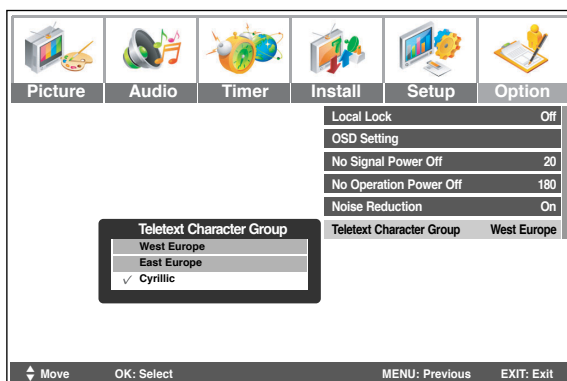
Always: The key lock is permanently active.

## ► Deactivate Child Lock

To deactivate child lock, proceed as described in chapter “Activate Child Lock” on page 34 and select OFF.

## Set Characters for Teletext

Use this function to set the character set for teletext to your region.

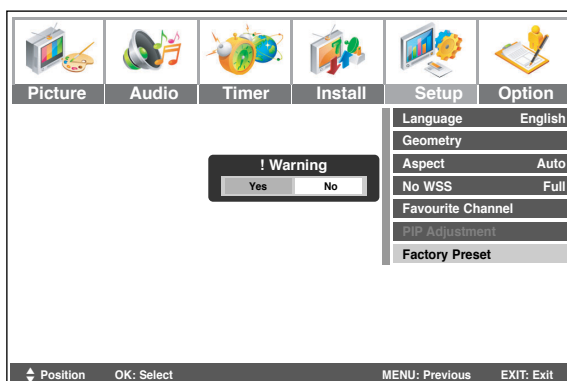


- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **OPTION**.
- 3 Press **▲** or **▼** and select **TELETEXT CHARACTER GROUP**.
- 4 Press **▲** or **▼** and select the character set.
- 5 Press **EXIT** to save the settings.

The following settings are available :  
Western Europe, Eastern Europe, Cyrillic

## Restore Default

Use this function to set all settings you have made back to the default factory setting.



- 1 Press **MENU**. To return to the main menu, press **MENU** several times.
- 2 Press **◀** or **▶** and select **SETUP**.
- 3 Press **▲** or **▼** and select **FACTORY PRESET**.
- 4 Press **OK**.
- 5 Press the mains switch on the back of the unit.

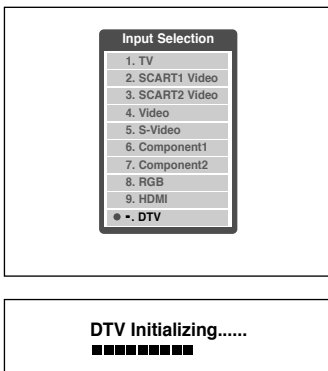
## Settings for the Computer

If you are using the unit as a monitor for your computer make the applicable settings accordingly. Set the resolution to 1024 X 768 and the frequency to 60 Hz.

## Setting up Digital Television Tuner

This feature operates only in the model with a built-in digital broadcast tuner.

Television is not pre tuned and "No Signal" will appear on screen until antenna is connected to DTV aerial input and Digital Tuner is setup. Please follow the simple setup instructions below.



### ➤ Selecting the Digital Television Input



- 1 Press "DTV" button on remote control, button will toggle between DTV (built in digital Tuner) and component 1, Component 2. When television is first turned on or DTV is first selected after turning television on "DTV Initializing" will appear along with a green bar while television powers up the on board digital tuner.

or

Press the **TV/AV** (  ) button.

■ A menu of all available input sources are displayed.

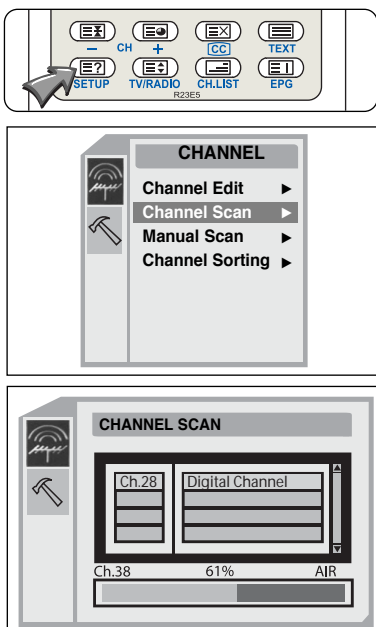
**TV - SCART1 Video - SCART2 Video - Video - S-Video - Component1 - Component2 - RGB - HDMI - DTV**





- 2 Press the (  /  ) button to select **DTV** and press the **OK** button.
- 3 To return to the previous menu, press the **EXIT** button.

## Automatic Channel Scan

This function will tune and save all available Digital Television channels to the television memory.

- Digital Tuner setup is done through a submenu available by pressing the "setup" button on the bottom left corner of the remote control. Do not press the "menu" key located in the centre of the remote control as this does not lead to the Digital Tuner setup function

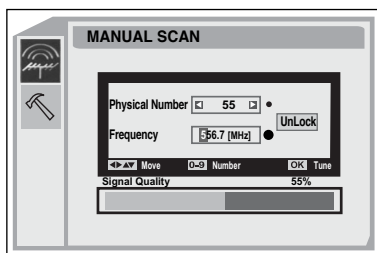
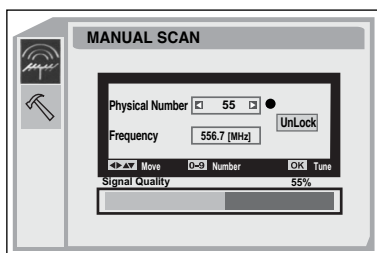
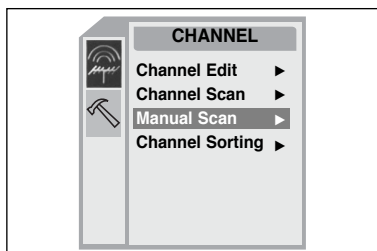


- 1 Press the **SETUP** button on the bottom row of the remote control, the Digital Setup menu will appear.
  - 2 Use the (  /  ) buttons to highlight the antenna icon (located in the right column of screen menu).
  - 3 Press the **OK** button on the remote control, "channel edit" will be highlighted.
  - 4 Press the (  /  ) buttons to highlight "Channel Scan" then press the **OK** button.
  - 5 Channel scanning automatically begins and will take a few minutes to complete.
- For each Television network the same channel will appear more than once in a numeric ordered group on the channel list, these usually include a Standard Definition (SD) channel, High Definition (HD) channel and other channels used by each network for multi casting. "For ease of use it is recommended that channel edit function is used to remove any unwanted or repetitious channels".
  - When tuning Digital television stations in built up areas (cities) often more than one television transmitter is present. In this situation the complete list of channels will appear twice on the channel list. One of the lists will be from the closest transmitter and will represent the strongest signal for your area. For ease of use it is recommended that "channel edit" function is used to remove any unwanted or repetitious channels.

## Manual Channel Scanning

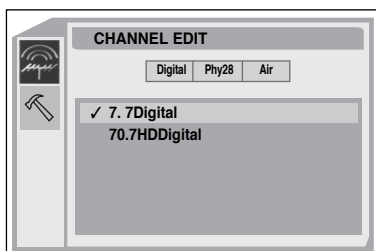
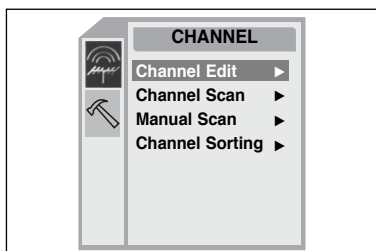
You can specify each channel manually by either physical number or frequency to program TV channels.

- Physical channel refers to the channels UHF or VHF number, the familiar channel numbers of 2, 7, 9 and 10 are not the physical channel numbers required for this type of tuning.



- 1 Press the **SETUP** button on the bottom row of the remote control, the Digital Setup menu will appear.
  - 2 Use the (▲ / ▼) button to highlight the antenna icon if not already highlighted. Once highlighted press the **OK** button on the remote control.
  - 3 Press the (▲ / ▼) button to highlight Manual Scan then press the **OK** button.
  - 4 Press the (◀ / ▶) button to select the Physical Number/ Frequency box. Use the (▲ / ▼) to activate either the Physical number or Frequency setting mode (the active mode is indicated by a black dot on the right of the box). Enter the appropriate number in the active box.
  - 5 Once the appropriate Number is entered press the **OK** button to assign the channel. The word "Lock" will appear if the assignment is successful, otherwise "Unlock" will be displayed if unsuccessful.
  - 6 Repeat the same procedure for all channels. Once **OK** is pressed and "Lock" appears the channel has been automatically saved and the next Physical number or Frequency can be entered.
  - 7 Press the **EXIT** button to return to the previous menu or Press the **SETUP** button to exit the menu completely.
- For each Physical number or Frequency "locked" multiple versions of the same channel will appear in the channel list, these usually include a Standard Definition (SD) channel, High Definition (HD) channel and other channels used by that network for multi casting. For ease of use it is recommended that channel edit function is used to remove any unwanted or repetitious channels.

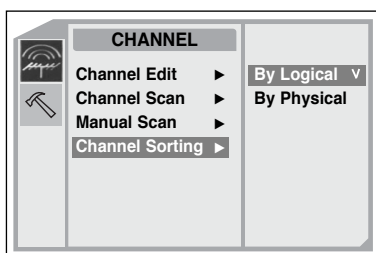
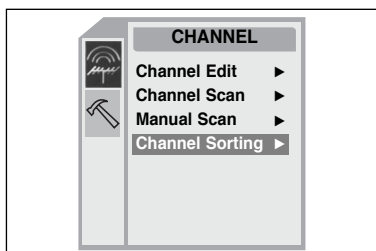
## Channel Editing



- 1 Press the **SETUP** button on the bottom row of the remote control, the Digital Setup menu will appear
- 2 Use the (▲ / ▼) button to highlight the antenna icon if not already highlighted. Once highlighted press the **OK** button on the remote control.
- 3 Channel edit will be highlighted
- 4 Press the (▲ / ▼) button to highlight a channel you wish to disable.
- 5 Press the (◀) button to disable the highlighted channel, the channel will then turn grey showing it has been disabled.
- 6 Alternatively press the (▶) button on an already disabled channel to enable it, the selected channel then turns Green showing it has been enabled.
- 7 Press the **EXIT** button to return to the previous menu or Press the **SETUP** button to exit the menu completely.

## Sorting the Stored Channels

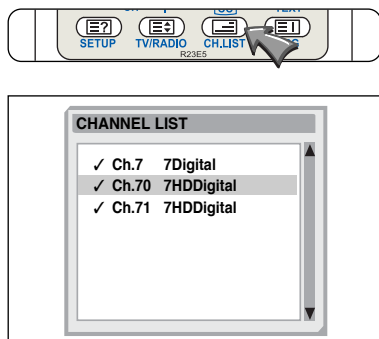
This operation allows you to change the programme numbers of stored channels.  
This operation may be necessary after using automatic channels scan.



- 1 Press the **SETUP** button.
- 2 Press the **OK** button.
- 3 Press the (▲ / ▼) button to select Channel Sorting and press the **OK** button.
- 4 Select the channel sorting option by pressing the (▲ / ▼) button, and press the **OK** button to change the setting. You can select channel sorting option **By Logical** or **By Physical**.
  - **BY Logical** : Channel list is sorted by logical channel number.
  - **BY Physical** : Channel list is sorted by physical channel number.
- 5 Press the **EXIT** button to return to the previous menu or press the **SETUP** button to return normal viewing.

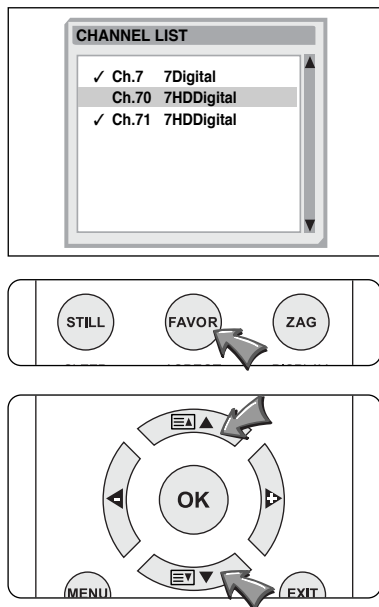
## Selecting the Channel

You can change the current channel to any other channel you want.



- 1 Press the **CH.LIST** button.  
The **CHANNEL LIST** is displayed.
- 2 Press the (▲ / ▼) button to select the channel that you want.
- 3 When the scroll bar is positioned on the channel you want to view press **OK**.

## Editing Your Favorite Channels

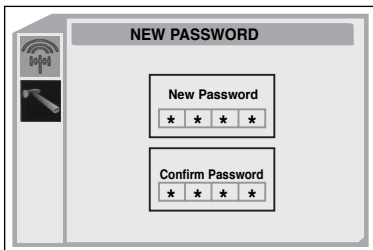
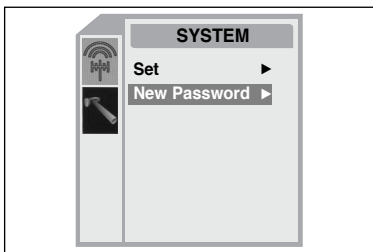
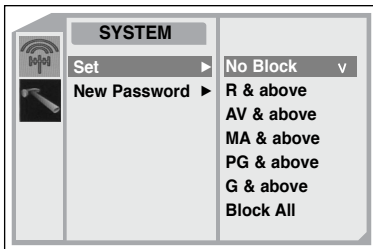
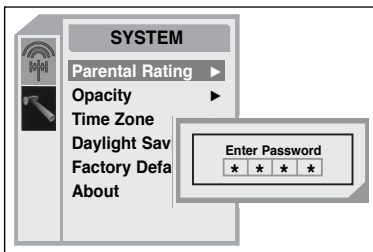
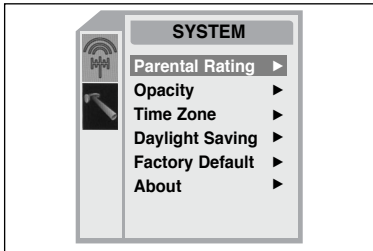


- 1 Press the **CH.LIST** button.
  - 2 Press the (▲ / ▼) button to select a channel and Press the **FAVOR** (FAVOR) button to add a channel to the favorite channel, and press again to delete the channel from the favorite channel.  
If a channel is added to favorite channel, the colour of the channel number is changed to white and a check is marked in front of the channel number.  
If a channel is deleted from favorite channel, the check mark as a favorite channel indicator is removed.
- ☛ You can check the your favorite channel with (▲ / ▼) button on the remote control.



## Setting up the Parental Lock

This sub-menu allows you to set the age for parental locking and protect children from viewing programs unsuitable for their age.



### ➤ Setting the Parental Ratings

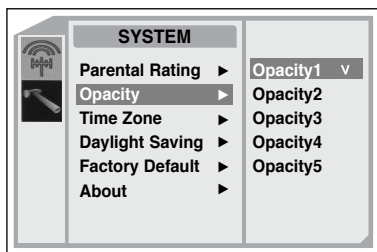
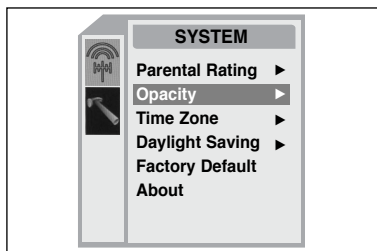
- 1 Press the **SETUP** button.
- 2 Press the (▲ / ▼) button to select **SYSTEM** and press the **OK** button. The **SYSTEM** menu is displayed with **Parental Rating** is selected.
- 3 Press the **OK** button.
- 4 Enter 4-digit password.
  - The default password is '0000'.
- 5 Press the **OK** button to select **Set**.
- 6 Press the (▲ / ▼) button to select restrictions level and press the **OK** button .  
The following options are available.  
**No Block - R & Above - AV & Above - MA & Above - M & Above - PG & Above - G & Above - Block All**
- 7 Press the **EXIT** button to return to the previous menu or press the **SETUP** button to return normal viewing.
  - Age limit can be applicable only for the signal which carries age limit information.

### ➤ Changing the Password

- 1 Press the **SETUP** button.
- 2 Press the (▲ / ▼) button to select **SYSTEM** and press the **OK** button. The **SYSTEM** menu is displayed with **Parental Rating** is selected.
- 3 Enter 4-digit password.
  - The default password is '0000'.
- 4 Press the (▲ / ▼) button to select **New Password** and press **OK** button.
- 5 Press the numeric button (0~9) to enter new password. Press the numeric button (0~9) again to verify the new password.
  - When you forget your new password please consult the shop where you bought the TV or the nearest dealer.

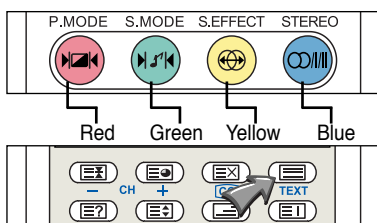
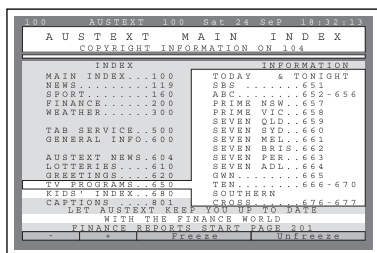
## Adjusting the Translucency Level

You can set the translucency level of menu screen, teletext or closed captions.



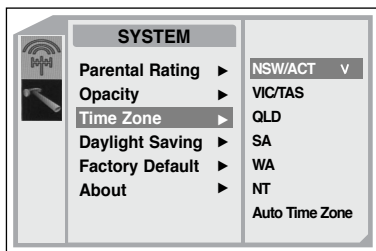
- 1 Press the **SETUP** button.
- 2 Press the (▲ / ▼) button to select **SYSTEM** and press the **OK** button.
- 3 Press the (▲ / ▼) button to select **Opacity** and press the **OK** button.  
The options of the selected menu available are displayed.
- 4 Select the required option by pressing the (▲ / ▼) button, and press the **OK** button to change the setting.  
The following options are available.  
**Opacity1 - Opacity2 - Opacity3 - Opacity4**
- 5 Press the **EXIT** button to return to the previous menu or press the **SETUP** button to return normal viewing.

## Displaying the Teletext



- 1 Press the **TEXT** button.
  - 2 Press the (▲ / ▼) button to turn pages up or down.  
Press number 100 to 899 to turn the direct number page.
- | To...                | Then...                                      |
|----------------------|--|
| • Teletext page down | • Press the <b>Red</b> (P.MODE) button.      |
| • Teletext page up   | • Press the <b>Green</b> (S.MODE) button.    |
| • Freeze teletext    | • Press the <b>Yellow</b> (S.EFFECT) button. |
| • Unfreeze teletext  | • Press the <b>Blue</b> (STEREO) button.     |
- 3 Press the **TEXT** button again to return normal viewing.

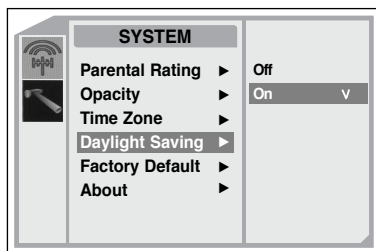
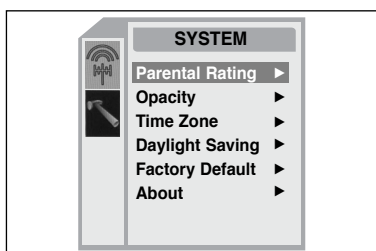
## Selecting the Time Zone



- 1 Press the **SETUP** button.
- 2 Press the (▲ / ▼) button to select **SYSTEM** and press the **OK** button.
- 3 Press the (▲ / ▼) button to select **Time Zone** and press the **OK** button.
- 4 Select a appropriate time zone by pressing the (▲ / ▼) button and press the **OK** button to change the setting.  
You can select the time zone in the following order:  
**NSW/ACT** (New South Wales/ACT) - **VIC/TAS** (Victoria/ Tasmania) - **QLD** ( Queensland) - **SA** (South Australia) - **WA** (Western Australia) - **NT** (Northern Territory) - **Auto Time Zone**
- 5 Press the **EXIT** button to return to the previous menu or press the **SETUP** button to return normal viewing.

## Setting the Daylight Saving Time (Summer Time)

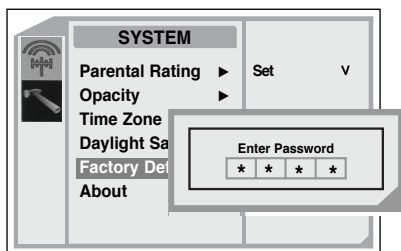
You can adjust current local time when summer time is applicable.



- 1 Press the **SETUP** button.
- 2 Press the (▲ / ▼) button to select **SYSTEM** and press the **OK** button.
- 3 Press the (▲ / ▼) button to select **Daylight Saving** and press the **OK** button.
- 4 Press the (▲ / ▼) button to select **On** or **Off**.  
**On**: Set for daylight saving function activated, The current time automatically moves one hour ahead.  
**Off** : Set for daylight saving function deactivated.  
☛ If you select Auto Time Zone in the time Zone menu, this function does not work.
- 5 Press the **EXIT** button to return to the previous menu or press the **SETUP** button to return normal viewing.

## Setting the Factory Default

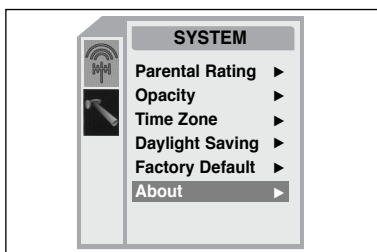
The status of DTV Mode settings will return to factory default parameters by using this function.



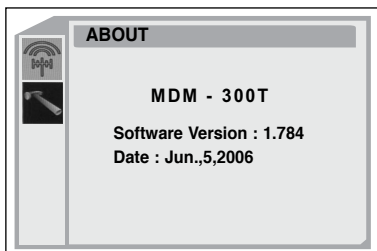
- 1 Press the **SETUP** button.
- 2 Press the (▲ / ▼) button to select **SYSTEM** and press the **OK** button.
- 3 Press the (▲ / ▼) button to select **Factory Default**.
- 4 Enter 4-digit password.  
 ⚡ The default password is "oooo"
- 5 Press the **OK** button to set to factory default settings.

## System Information

You can check the current information about your TV such as TV's software version or manufacturing date.



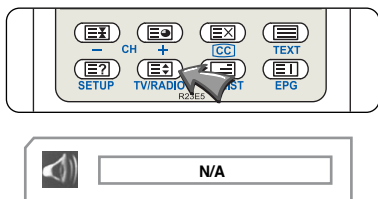
- 1 Press the **SETUP** button.
- 2 Press the (▲ / ▼) button to select **SYSTEM** and press the **OK** button.
- 3 Press the (▲ / ▼) button to select **About** and press the **OK** button.  
 ⚡ This information is necessary when you download new software.
- 4 Press the **EXIT** button to return to the previous menu or press the **SETUP** button to return normal viewing.



# DTV Setting (Option)

## TV / RADIO Switching

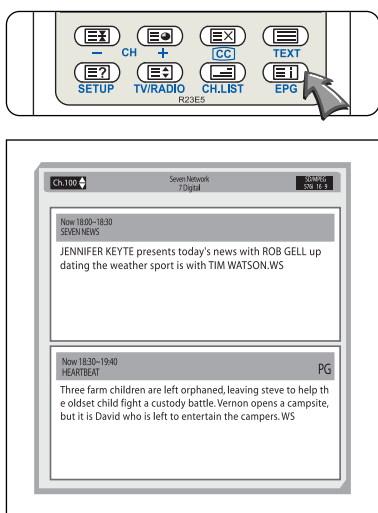
You can use this menu when you change a TV channel to a radio channel or vice versa.



- 1 Press the **TV/RADIO** button.
- 2 When listening a radio channel, radio channel information will be displayed on the TV screen. This **TV/RADIO** button does not work when the radio channel is not stored.

## EPG (Electronic Program Guide)

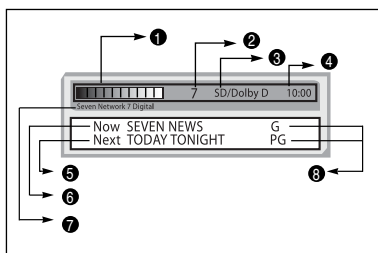
You can check the channel information on the channels of the transponder you are watching.




- 1 Press the **EPG** button then the following menu will be displayed.
  - 1. You can check local time, channel name, and other brief information on the current programme.
  - 2. If you didn't set local time under 'Time zone' section, the EPG function may not work properly.
  - 3. EPG information is delivered by terrestrial signal from service providers. If the channel does not carry any signal on the guide data, this function may not work properly.
- 2 Press the (**▲** / **▼**) button to select channel . Then you can see current or next programme information of the selected channel.
- 3 If you want to see programme information of a program in the program schedule list, press the (**▲** / **▼**) button to select the programme. Then you can see the programme information in the button window.
- 4 Press the **SETUP**, **EXIT** or **OK** button to finish **GUIDE** menu.

## Channel Information

Brief information is displayed, such as current channel type, name, local start/end time, guide information, current time, fav/normal mode, Audio mode and Audio ID.



- 1 Press the **DISPLAY** (  ) button, then the information bar will pop-up.
  - ① RF Signal Strength
  - ② Channel Number
  - ③ A/V Info.
  - ④ Current Time
  - ⑤ Service Provider and Service Name
  - ⑥ Current Program
  - ⑦ Next Program
  - ⑧ Parental Guidance Rating
- If you have no information:
  - Check your local time setting is correct.
  - Information is not sent by the channel provider.

## Watching



### Watch Current Television Program

When you switch the unit on, the current television program will be displayed.

### Set Volume

- 1 Press ◀ or ▶ to set the desired volume.

#### ► *Mute*

- 1 Press  to switch the sound temporarily off.
- 3 Press  to switch the sound on again.

### Change Channel

Press ▲ or ▼ to scroll through the channels.



#### ► *Switch to Last Channel*

Use this function to toggle between the last two channels you have watched.

- 1 Press .



#### ► *Show Channel Information*

Use this function to display the current station name and the channel.

- 1 Press .
- 2 Press  again to hide the information.

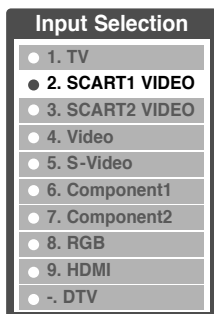
## Recall a Favourite Channel

Use this function to scroll through the channels or sources you have stored as your favourite stations. This way you do not need to scroll through all the stations, if you only want to watch specific subjects. On how to store channels as your favourites see: “Channel Groups” on page 24.

- 1 Press .
- 2 Press  repeatedly until you select the desired channel.

## Select Source





Use this function to select which signal will be displayed on the main screen, if you have connected several sources (e.g. a decoder and a roof aerial).



- 1 Press .

### ► Select Input

Use this function to switch directly between the different input channels. For this, press the keys below.

-  : Selects a RGB, HDMI input .
-  : Selects a component input.
-  : Selects a SCART or AV input.
-  : Selects a TV.

## Watch Two Programs at the Same Time (PIP)

Use this function to display a second picture. This way you can watch two programs you are receiving by antenna or by the other inputs at the same time. You can display on large and one small picture or two pictures of the same size. You can adapt the size and the position of the small picture.


### ► Display Second Picture

- 1 Press .

### ► Select Signal Source for PIP

Use this function to select which signal to display on the sub screen, if you have connected several sources.

- 1 Press .

Whenever you press , you can choose the external signal source excluding the chosen signal source on the main picture.

#### PIP

Main \ PIP		TUNER	SCART1 Input		SCART2 Input			AV2 Input		Component Input		PC
		SUB	VIDEO	S-VIDEO	VIDEO	S-VIDEO	RGB	VIDEO	S-VIDEO	Component1	Component2	RGB
TUNER	Main	△ *1	O	O	O	O	O	O	O	O	O	O
	VIDEO	O	X	X	O	O	O	O	O	O	O	O
	S-VIDEO	O	X	X	O	O	O	O	O	O	O	O
SCART1 Input	RGB	O	X	X	O	O	O	O	O	O	O	O
	VIDEO	O	O	O	X	X	X	O	O	O	O	O
	S-VIDEO	O	O	O	X	X	X	O	O	O	O	O
SCART2 Input	VIDEO	O	O	O	O	O	O	X	O	O	O	O
	S-VIDEO	O	O	O	O	O	O	O	X	O	O	O
	RGB	O	O	O	O	O	O	O	O	X	O	O
AV2 Input	VIDEO	O	O	O	O	O	O	O	O	O	O	O
	S-VIDEO	O	O	O	O	O	O	O	X	O	O	O
	RGB	O	O	O	O	O	O	O	O	O	X	O
Component Input	Component1	O	O	O	O	O	O	O	O	X	O	O
	Component2	O	O	O	O	O	O	O	O	O	X	O
	RGB	O	O	O	O	O	O	O	O	O	O	X
PC	HDMI	O	O	O	O	O	O	O	O	O	O	O
	DTV	O	O	O	O	O	O	O	O	O	O	O

( \*1: 2 Tuner model only )

### ► Toggle between Two Pictures

- 1 Press .

This function is only available if you have selected a signal source for the main screen and the sub screen.

### ► Switch Second Picture Off

- 1 Press  several times.

### ► Toggle Sound between Main Screen and Sub Screen

- 1 Press .

### ► Display Two Pictures at the same Time



- 1 Press  several times.

This function is only available if you have selected a signal source for the main screen and the sub screen.



## Set Picture-in-Picture Size



Use this function to set the size of the small picture.

- 1 Press .
- 2 Press .
- 3 Press ▲ or ◀ or ▼ or ▶ and select the desired size.

You can also adjust this setting in the menu OPTIONS.

## Set Picture-in-Picture Position

Use this function to set where the sub screen will be displayed.

- 1 Press .
- 2 Press .
- 3 Press ▲ or ◀ or ▼ or ▶ and select the desired position.

You can also adjust this setting in the menu OPTIONS.



## Change Picture-in-Picture Picture Mode



- 1 Press .

The following settings are available:

Standard → Sport → Natural → Mild → Custom


## Change the Channel of Sub Picture (2-Tuner Model Only)

- 1 Press  or .

The channel of sub picture will change whenever you press  or .

## Teletext

This function is only available if the current station broadcasts teletext.

- 1 Press .


Teletext is not available for PIP.

The following settings are available:


: Cancels the current function.

: Opens a sub page (if available). Enter the number of the sub page using the key pad.

: Interrupts the display of several sequential pages. To continue the display, press the key again.

: Shows hidden text (e.g. solutions in quiz shows).



: Increases/decreases the display. Press the key several times to scroll through the different sizes.

: Shows teletext on a transparent background.

: Shows the index page of teletext.



## Still Picture

Use this function to hold the picture.

- 1 Press .  
During the display of the still picture the sound will continue to play.
- 2 Press  again to continue watching.


## Show Time

Use this function to display the time. If teletext is displayed, the time will not be shown.

- 1 Press .
- 2 Press  again to hide the time.

## Set Sleep Time

Use this function to set after how many minutes the unit will switch off.

- 1 Press  until the desired number of minutes is displayed.

## Set Picture Mode while Watching.


Use this function to adjust the picture optimally to the content.

- 1 Press  until the desired mode is displayed.

For further information on the settings refer to: "Set Picture Mode" on page 26.

## Adjust Picture Size while Watching



Use this function to set the picture size.

- 1 Press  until the desired size is displayed.

For further information on the settings refer to: "Set Aspect Ratio" on page 25.

## Set Sound Effect while Watching


Use this function to set the sound effects.

- 1 Press .
- 2 Press  again to switch the sound effect off.

For further information on the settings refer to: "Adjust Medium and Low Frequencies" on page 29.

## Set Sound while Watching

Use this function to adjust the sound optimally to the content.


- 1 Press  until the desired mode is displayed.

For further information on the settings refer to: "Adjust Individual Audio Frequencies" on page 28.

## Set Stereo/Mono while Watching

Use this function to turn the stereo sound on or off.

- 1 Press .

The  displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to stereo or dual, depending on the current transmission.

For further information on the settings refer to: "Sound Settings" on page 22.

## Cleaning and Troubleshooting

### Cleaning



Use a dry cloth to clean the unit. Never use water, cleaning detergents or spray cleaners.

### Troubleshooting

If there are problems with the unit, please check the following points before contacting the technical service.



Never open the unit. This may lead to electric shocks and will void the warranty.

### For TV

<b>No Picture or Sound</b>	<ul style="list-style-type: none"> <li>• Make sure the receiver and the TV set are both connected to the mains and switched on.</li> <li>• Check whether the antenna cable is in proper condition and if it is connected to the respective sockets. See chapter "Connecting a Satellite Receiver, a Set Top Box or a Video Recorder" on page 10, "Connecting to Cable Reception" on page 12 or "Connecting to the Roof Aerial" on page 11. If you are using a SCART cable, check whether it is properly connected.</li> </ul>
<b>Black Screen</b>	<ul style="list-style-type: none"> <li>• Check whether a signal source is selected. See chapter "Select Source" on page 37 and "Select Input" on page 46.</li> </ul>
<b>Picture OK but no Sound</b>	<ul style="list-style-type: none"> <li>• Check whether the sound is set to mute or if it is turned down. See chapter "Set Volume" on page 45.</li> <li>• Check if the sound is ok on another channel. If this is the case, the program is broadcast improperly.</li> </ul>
<b>Poor Sound</b>	<ul style="list-style-type: none"> <li>• Switch between stereo and mono sound. See chapter "Set Stereo/Mono while Watching" on page 50.</li> </ul>
<b>No Picture on Some Channels</b>	<ul style="list-style-type: none"> <li>• Check if the channel has been tuned to a station. See chapter "Tuning" on page 18.</li> <li>• Adjust the fine tuning. See chapter "Fine Tuning" on page 21.</li> </ul>
<b>Unstable, Poor Picture</b>	<ul style="list-style-type: none"> <li>• Adjust the fine tuning. See chapter "Fine Tuning" on page 21.</li> <li>• Check if strong electromagnetic fields, e.g. caused by electric devices nearby cause the impairments.</li> </ul>

<b>Some Channels Display Black and White</b>	<ul style="list-style-type: none"> <li>• Check if other channels display colours. If yes, the program is broadcast in black and white. Adjust the colour settings.</li> </ul>
<b>Snow on one or Several Channels</b>	<ul style="list-style-type: none"> <li>• Check whether the antenna cable is in proper condition and if it is connected to the respective sockets. See chapter "Connecting a Satellite Receiver, a Set Top Box or a Video Recorder" on page 10, "Connecting to Cable Reception" on page 12 or "Connecting to the Roof Aerial" on page 11.</li> <li>• Adjust the fine tuning. See chapter "Fine Tuning" on page 21.</li> </ul>
<b>Remote Control Does Not Work</b>	<ul style="list-style-type: none"> <li>• Make sure the unit is connected to the mains.</li> <li>• Check whether the batteries are inserted correctly and whether they are sufficiently charged. To do this, insert new batteries for testing.</li> <li>• Check whether a function key for another device has been activated. See chapter "Restore Default" on page 35.</li> </ul>
<b>Message "No Signal "</b>	<ul style="list-style-type: none"> <li>• Check whether the connecting cable is properly connected to the computer and the respective sockets.</li> </ul>
<b>Message "Video not Supported"</b>	<ul style="list-style-type: none"> <li>• The resolution or the frequency of the graphic board in the computer cannot be displayed. Change the settings in the computer.</li> </ul>
<b>Picture Scrolls Vertically</b>	<ul style="list-style-type: none"> <li>• Check whether the connecting cable is properly connected to the computer and the respective sockets.</li> </ul>
<b>Parts of the Picture are not Displayed</b>	<ul style="list-style-type: none"> <li>• Check the resolution and the frequency of the graphic board in the computer. Adjust the settings. See chapter "Settings" on page 17.</li> </ul>
<b>Picture Too Small or Too Large</b>	<ul style="list-style-type: none"> <li>• Adjust the settings. See chapter "Settings" on page 17.</li> </ul>
<b>Horizontal or Vertical Bars</b>	<ul style="list-style-type: none"> <li>• Adjust the settings of the computer. See chapter "Settings for the Computer" on page 35.</li> </ul>

## For DTV (Option)

<b>No Picture</b>	<ul style="list-style-type: none"> <li>• Make sure the power is on.</li> <li>• Check the video input mode of the TV.</li> <li>• Connect antenna cable correctly.</li> <li>• In case antenna cannot receive signal due to weak broadcasting signal, picture may not display on the screen.</li> </ul>
<b>No Sound</b>	<ul style="list-style-type: none"> <li>• Check the volume level of the TV.</li> <li>• Check the mute function of the TV.</li> </ul>
<b>On screen displayed " No Signal "</b>	<ul style="list-style-type: none"> <li>• Connect antenna cable correctly.</li> <li>• If signal is weak, adjust the aerial antenna.</li> </ul>
<b>Back and white screen or V-Hold.</b>	<ul style="list-style-type: none"> <li>• Check the broadcasting video format in your TV.</li> </ul>
<b>It takes a while to display picture on the screen after turning power on or after changing channel.</b>	<ul style="list-style-type: none"> <li>• In case of digital broadcasting, it could take 1 to 2 seconds to receive data. Therefore, it is not a inferior STB if the screen displays picture at the end.</li> </ul>
<b>Poor video quality or screen flickering.</b>	<ul style="list-style-type: none"> <li>• It results from the weak signal of your local digital broadcasting.</li> </ul>

## Technical specifications

Display	Type		a-Si TFT Active Matrix LCD
	Aspect Ratio		16:9
	Native Resolution		1366x768
	Number of Colors		16M
	Video Compatible		480i/P, 576i/P, 720P, 1080i
TV/Video	System		PAL/SECAM BG, DK, I, L, L', AV NTSC
	Channel		100 Programs
	OSD Language		12 Language (Eng/Fr/Ger/Ita/Spa/Dutch/Por/Norse/Dan/Swed/Fin+1)
	Comb Filter		3D Digital
	Noise Reduction		YES
	PIP		Single
	POP/Twin Screen		YES
	Progressive Scan		YES
	Auto Channel Scan		YES
	Favorite Channel Memory		YES
	On Timer/Off Timer		YES
	Sleep Timer		10~180 Min.
	Auto Power Off		30 Min.
DTV	DVB-T (HD/SD) Tuner		Option
Audio	Output Power		10W+10W (RMS)
	Sound		Stereo (NICAM)
	Surround Sound		SRS WOW Surround (Option)
	Graphic Equalizer		5 Band
PC Compatible	Sync.	Horizontal	30~61 kHz
		Vertical	56~75 Hz
	Display Color		16.7 M (True)
	Max. Resolution		1366x768
Input/Output Terminal	RF Input		UHF/VHF/CATV, 75 Ohm Unbalanced, F Type
	Video Input		1.0 V p-p
	Audio Input		500mV RMS
	HD Component Input (Y,Pb,Pr)		Y:1.0V p-p, Pb Pr:0.7V p-p
	PC Input (15Pin D-sub)		RGB 0.7 V p-p
	Headphone Jack		3.5 ϕStereo Jack
HDMI			Ver. 1.1
Power Requirements			AC 100~240V, 50/60 Hz

☛ Design and specifications are subject to change without notice.

## Memo