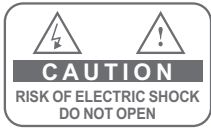






# Safety Instructions



**To reduce the risk of electric shock**, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel. Indicates a situation which, if not avoided, could damage the equipment or other apparatus.

**This symbol** indicates dangerous voltage inside the LCD-TV that presents a risk of electric shock or personal injury. Indicates a hazardous situation which, if not avoided, could result in serious injury.

**This symbol** indicates important instructions accompanying the LCD-TV.

Read this manual carefully and make sure you understand the instructions provided. For your safety, check what the result of each action will be. Throughout the whole manual, pay special attention to the following instructions that indicate hazardous situations. Indicates additional information to the user to make the user aware of possible problems and information of any importance to help the user to understand, to use and to maintain the installation.

---

**The information in this document is subject to change without notice.**

---

## User Instructions

**A still image displayed too long may cause permanent damage to the LCD Panel.**

Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen.

Playing a DVD or a game console may cause similar effect to the screen. Damages caused by the above effect are not covered by the Warranty.





# General Safety Precautions

## Power

- Plug the power cord into the correct power outlet. An unstable connection may cause fire.
- Do not use damaged power cords or plugs, or use a loose wall outlet. This may cause electrical shock or fire.
- Do never touch the power cord with wet hands. This may cause electrical shock.
- Do not use multiple devices with one outlet. Overheating the outlet may cause fire.
- Do not bend or pull out the power cord using force, nor place heavy objects over it. This may cause electrical shock or fire.
- Make sure you pull out the power cord holding the plug itself. An internal disconnection may cause fire.
- When removing the product, turn off the power and pull out the plug from the power outlet. Also make sure other devices including the antenna or the connectors are removed from the outlets before relocating the product. Otherwise you may suffer electrical shock or fire due to a damaged power cord.

## Installation

- Keep the product away from any heating devices. Placing it close to a heating device may cause fire.
- Keep the power cord away from any heating devices. A melted coating may cause fire or electrical shock.
- Place the antenna as far away as possible from any high-voltage cables. Touching the high voltage wiring may cause fire or electrical shock.
- Do not install the product in oily, smoky or humid (or exposed to rain/water) places or automobiles. This may cause fire.
- The connection between the external antenna and the internal wiring should be turned inside to avoid any inflow of rain. Exposing the LCD to water (rain) will cause electrical shock or fire.
- Do not use the product in humid places. Humidity will shorten the life of the product and may cause an electrical shortage or fire.
- Do not use the product in places with low temperatures (below 5°C).
- Avoid installing the product in poorly ventilated places. Internal overheating may cause an electrical shortage and fire.
- Be sure not to cover the ventilator (with a table-cloth or curtain, etc.). Internal overheating may cause an electrical shortage and fire.
- Do not install the product in an unstable place or on a small stand. The product may cause serious injury, if it falls on somebody (especially children). Install it on an even, stable place as it is front-heavy.
- Do not install the product on the floor. Someone (especially children) may trip over it.

## GB\_3





# General Safety Precautions

## Usage

- Unplug the product from the wall outlet and do not touch the antenna during a thunderstorm. This will prevent damage to the unit due to lightning and power-surges.
- Keep dust or water away from the pins or touching points of the power plug. This will prevent electrical shock or fire.
- Keep children from climbing over the product. The device may cause serious injury or death if it falls on them.
- Do not place anything over the product that children may try to reach. The device may cause serious injury or death if it falls on them.
- When removing the battery from the product, keep it out of children's reach. If a child swallows a battery, consult a doctor immediately.
- Use only specified batteries and do not use an old battery along with a new one. Align the batteries according to the correct polarity (+ or -). Aligning them incorrectly may cause an internal explosion or a leakage of the internal liquid, leading to electrical shock, physical damage or pollution of the surroundings.
- Do not insert any metal or a flammable object into the ventilator or the AV input terminal. This may cause electrical shock or fire.
- Do not disassemble, repair or reconstruct the product at your discretion. This may cause electrical shock or fire. Contact your local customer support.
- Keep the product away from inflammable sprayers or ignitable objects. Exposure to these may cause explosion or fire.
- Do not place water-pots, flower vases, beverage cans, small metals or heavy objects over the product. Contact of these contents with the product may cause electrical shock or fire, while any falling of the product may cause injury.
- If the product breaks down, turn off the power and unplug it from the outlet before contacting Customer Support. This will protect you from electrical shock or fire.
- When you notice something strange like an odd noise, smell something burning or see smoke, unplug the power cord and contact your local Customer Support. Do this to avoid electrical shock or fire.





# General Safety Precautions

## Cleaning

- Regular clean the product (at least once a year) according to the advice of the Customer Service. Leaving dust inside the product for an extended time may cause fire or malfunction.
- When not using the product for an extended time period, unplug the power cord. Dust over or inside the LCD may cause electrical shock, leakage or even fire from possible heat generation.
- When cleaning the product, unplug the power cord and use only a soft, dry cloth. Do not use chemicals like wax, benzene, alcohol, thinners, aroma, lubricator or cleanser.
- Do not wipe over the screen with your nails or any sharp-edged objects. This will scratch the surface.





# Contents

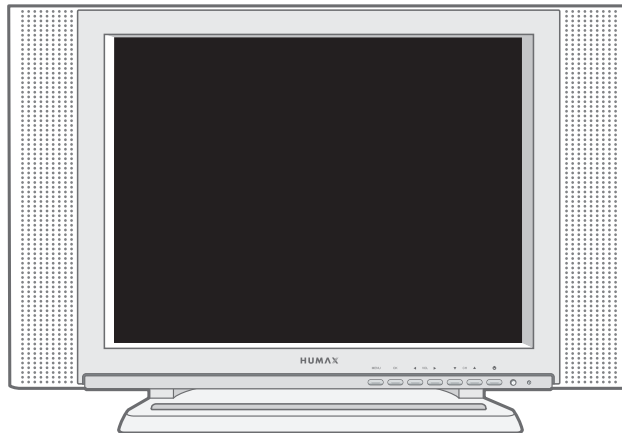
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# Package Contents

- + Please check all package contents before using your TV.
- + Package Contents may be different according to the area.



**LCD - TV**



**Remote Control**



**AAA Batteries (X2)**



**User's Manual**

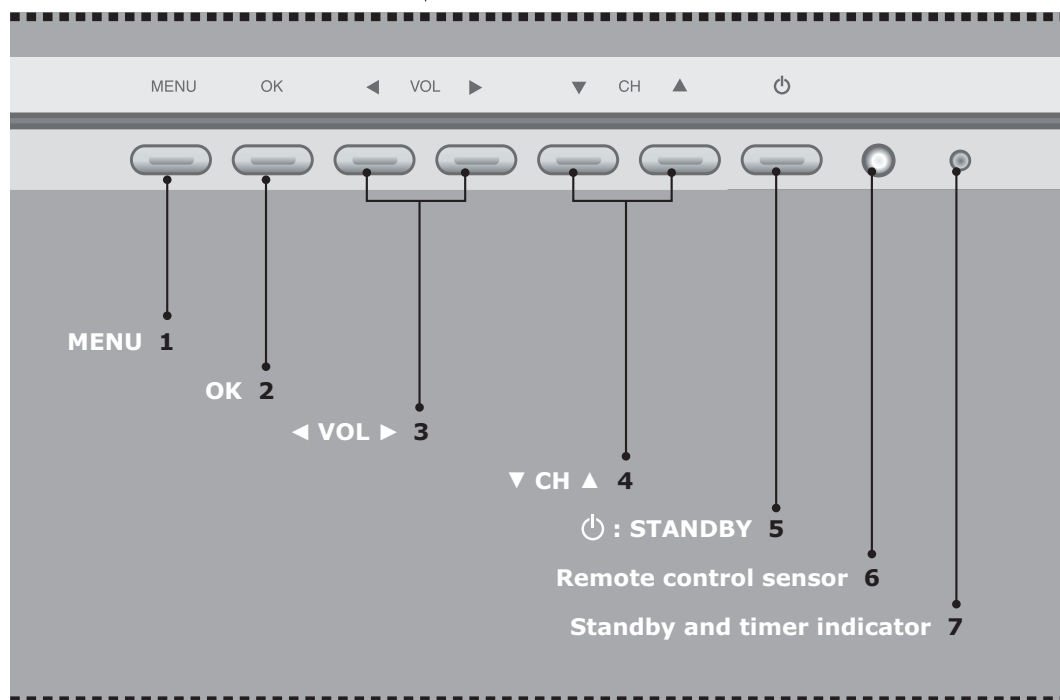


**RCA to SCART cable  
(for LAU-20A only)**





# Front Panel



## 1. MENU

Menu display.

## 2. OK

Your choice confirmation, Input source selection.

## 3. < VOL >

Volume adjustment.

## 4. < CH >

Channel selection.

## 5. < : STANDBY

Switches between operation and standby modes.

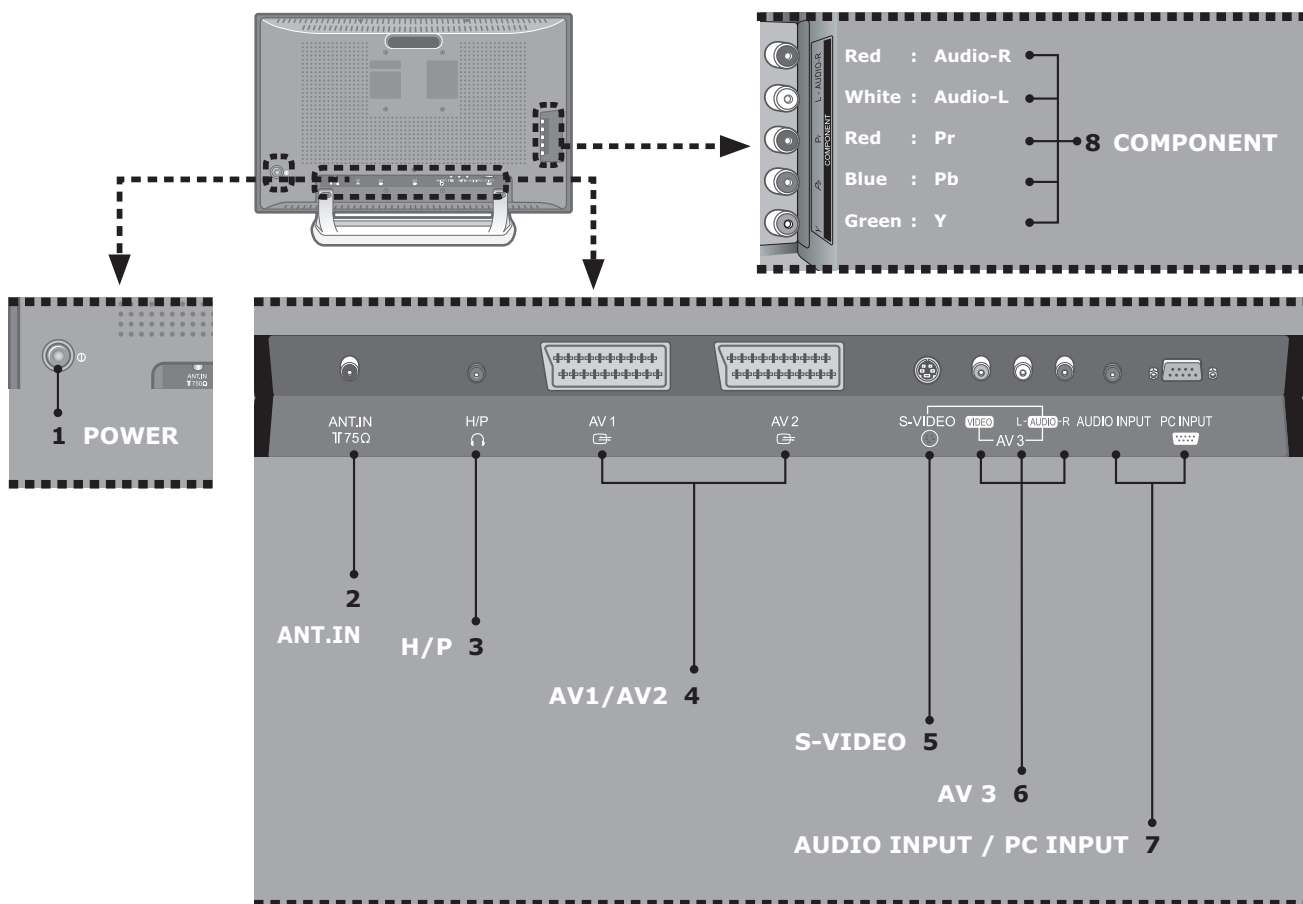
## 6. Remote control sensor

## 7. Standby and timer indicator





# Rear Panel



**1. ⏻ : POWER**

Power on/off.

**2. ANT.IN**

Connect to an antenna or a cable TV system.

**3. H/P**

Connect the headphones.

**4. AV1 / AV2 (SCART)**

Connect to the SCART jack of a VCR, DVD player and similar devices.

**5. S-VIDEO**

Connect to the S-Video jack of a camcorder, video game and similar devices.

**6. AV3 (RCA)**

Connect to the audio and video jacks of a camcorder, video game and similar devices.

**7. AUDIO INPUT / PC INPUT**

Connect to the audio and video output jacks of a PC.

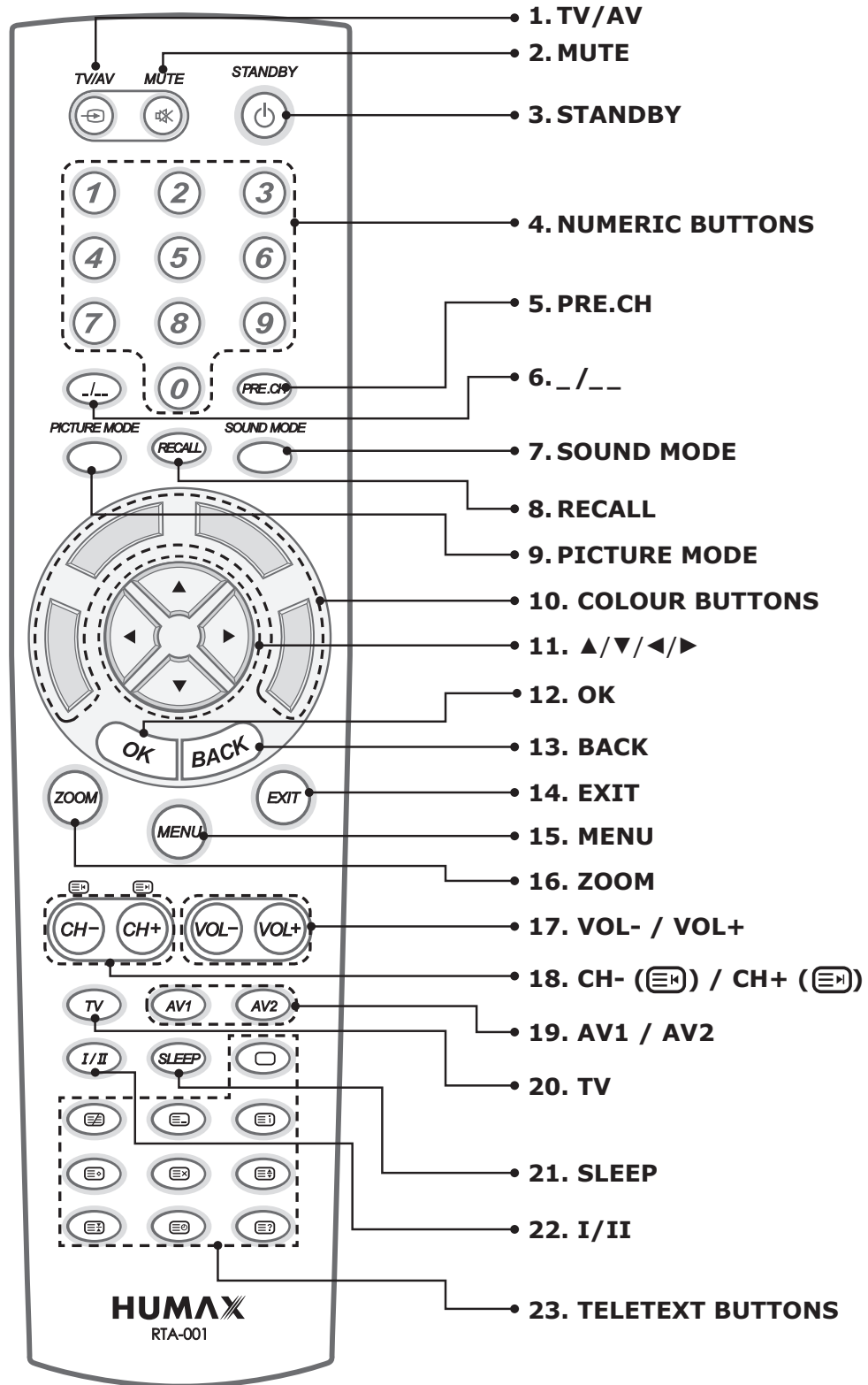
**8. COMPONENT**

Connect to the audio and video output jacks of a DVD player, DTV receiver and similar devices.





# Remote Control













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# Remote Control

- 1. TV/AV**  
Used to display all of the available input sources. Press the ▲ or ▼ button to select required input source.
- 2. MUTE**  
Used to temporarily cut off the sound. To turn the sound back on, press the **MUTE**, **VOL+(VOL▶)**, or **VOL-(◀VOL)** button.
- 3. STANDBY**  
Used to switch between operation and standby modes.
- 4. Numeric buttons (0~9)**  
Used to display the corresponding channels.
- 5. PRE.CH**  
Used to switch repeatedly between the last two channels displayed.
- 6. \_ / --**  
Used to switch between one-digit channel and two-digit channel modes.
- 7. SOUND MODE**  
Used to select the sound mode (**Custom**, **Standard**, **Music**, **Movie**, or **Speech**).
- 8. RECALL**  
Used to display information.
- 9. PICTURE MODE**  
Used to select the picture mode (**Custom**, **Dynamic**, **Standard**, **Movie**, or **Mild**).
- 10. Colour buttons**  
Used to access directly teletext linked page.
- 11. ▲/▼/◀/▶**  
Used to control the cursor in the on-screen menu system.
- 12. OK**  
Used to confirm (store or enter) your choice in the on-screen menu system.
- 13. BACK**  
Used to return to the previous display.
- 14. EXIT**  
Used to exit from any display.
- 15. MENU**  
Used to display the on-screen menu.
- 16. ZOOM**  
Used to change the picture size. (**Normal**, **Zoom**, or **Wide**)
- 17. VOL- / VOL+**  
Used to adjust the volume.
- 18. CH- (⏪) / CH+ (⏩)**  
Used to change the channel or teletext page.
- 19. AV1 / AV2**  
Used to switch the AV1 or AV2 input mode directly.
- 20. TV**  
Used to switch the TV mode directly.
- 21. SLEEP**  
Used to select the preset time interval for switching the TV to standby mode automatically.
- 22. I/II**  
Used to select the sound mode (stereo, dual, or mono sound).
- 23. TELETEXT BUTTONS**
  -  **(teletext off)**  
Used to deactivate teletext service.
  -  **(teletext on/mix)**  
Used to view the teletext information. Used to overlap the teletext with the broadcasting screen.
  -  **(mode)**  
Used to select the teletext mode (LIST/FLOF)
  -  **(index)**  
Used to display the teletext index.
  -  **(store)**  
Used to store the teletext pages.
  -  **(cancel)**  
Used to display the broadcast when searching for a page.
  -  **(size)**  
Used to display the double-size letters.
  -  **(hold)**  
Used to hold the teletext page.
  -  **(sub-page)**  
Used to display the teletext sub-page.
  -  **(reveal)**  
Used to reveal the hidden text.






# Remote Control

## Inserting the Batteries into the Remote Control

You must insert or replace the batteries in the remote control when you:

**+ Purchase the TV**

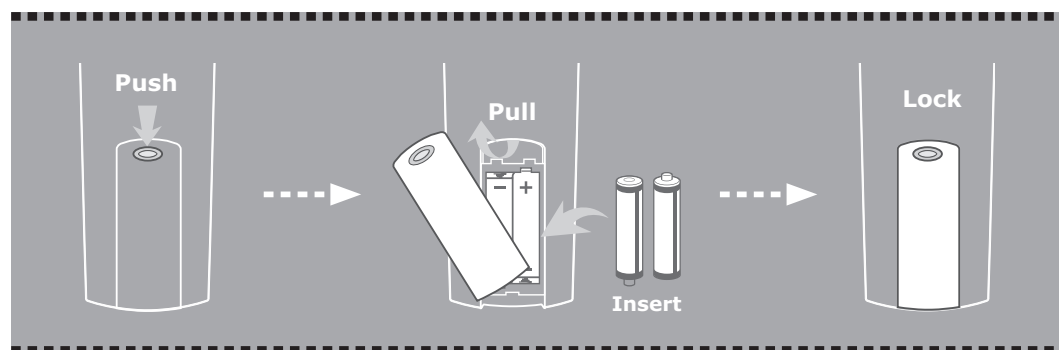
**+ Find that the remote control is no longer operating correctly**

1. Remove the cover on the rear of the remote control by pressing the symbol (  ) downwards and then pulling firmly to remove it.
2. Insert two AAA size 1.5V batteries ensuring that the "+" and "-" ends of the batteries are correctly aligned.
3. Replace the cover.

---

**Note : Do not mix battery types, i.e. alkaline and manganese.**

---

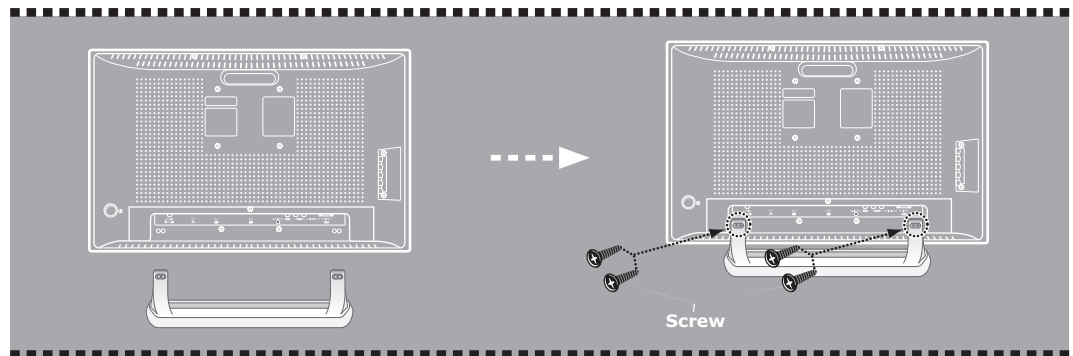




# Attaching the Stand-Base

1. Attach the LCD to the stand-base.
2. Firmly secure the stand-base and the LCD by using the 4 screws.

**Note :** Firmly secure the stand-base for the LCD before moving it, as the stand-base may fall and could cause serious injury.



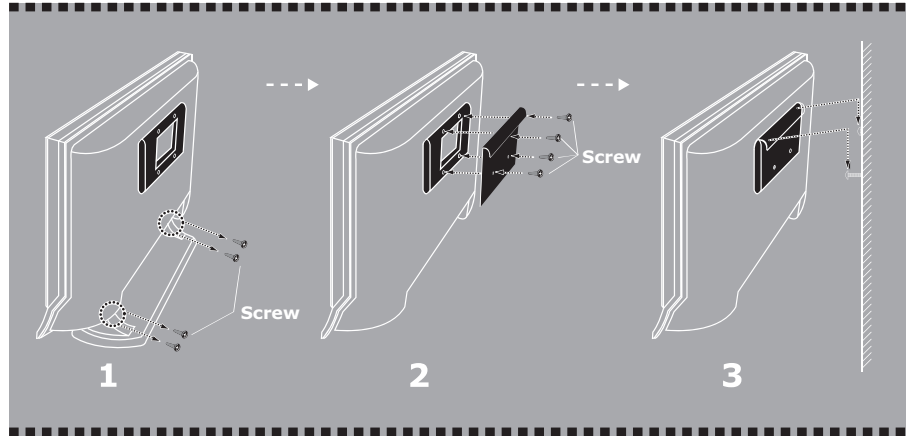


# Mounting Device

## Installing on the Wall

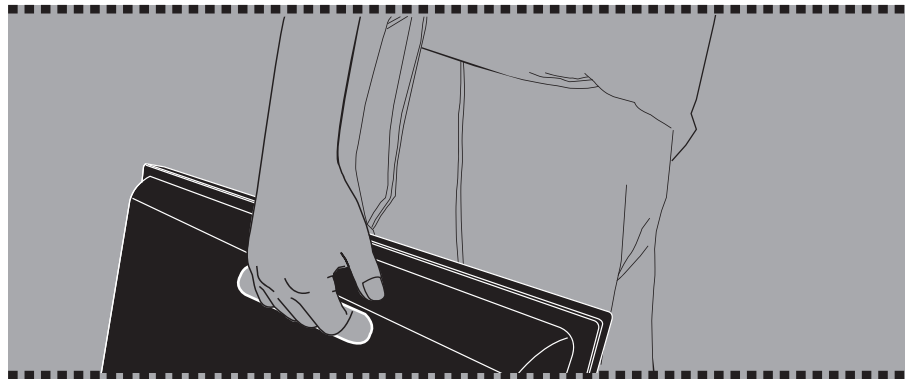
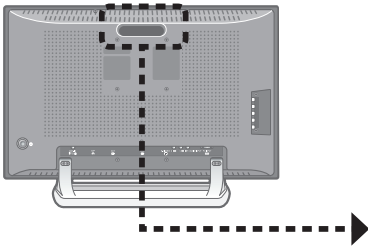
You can install the TV on the wall using a mounting bracket (sold separately). To reduce the risk of damage from falling, this TV should be secured at all times. Do not install on a weak surface such as plaster or foam board.

Before you install the TV on the wall, separate the LCD and stand-base.



## Convenient Movement

You can move the TV to other place conveniently.

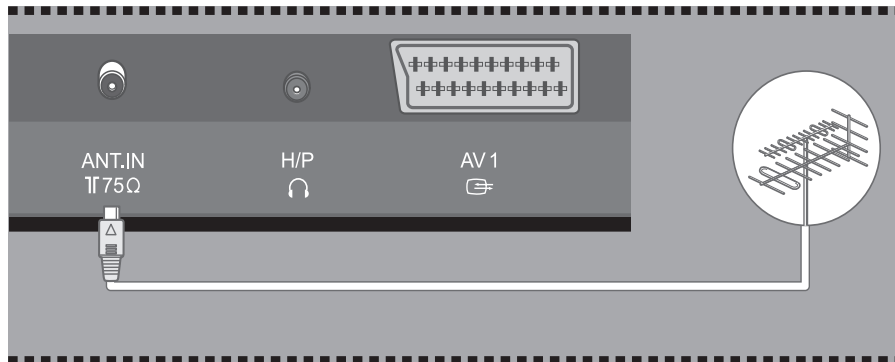
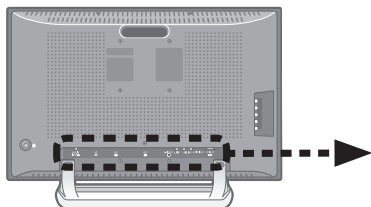




# Connecting the External Equipment

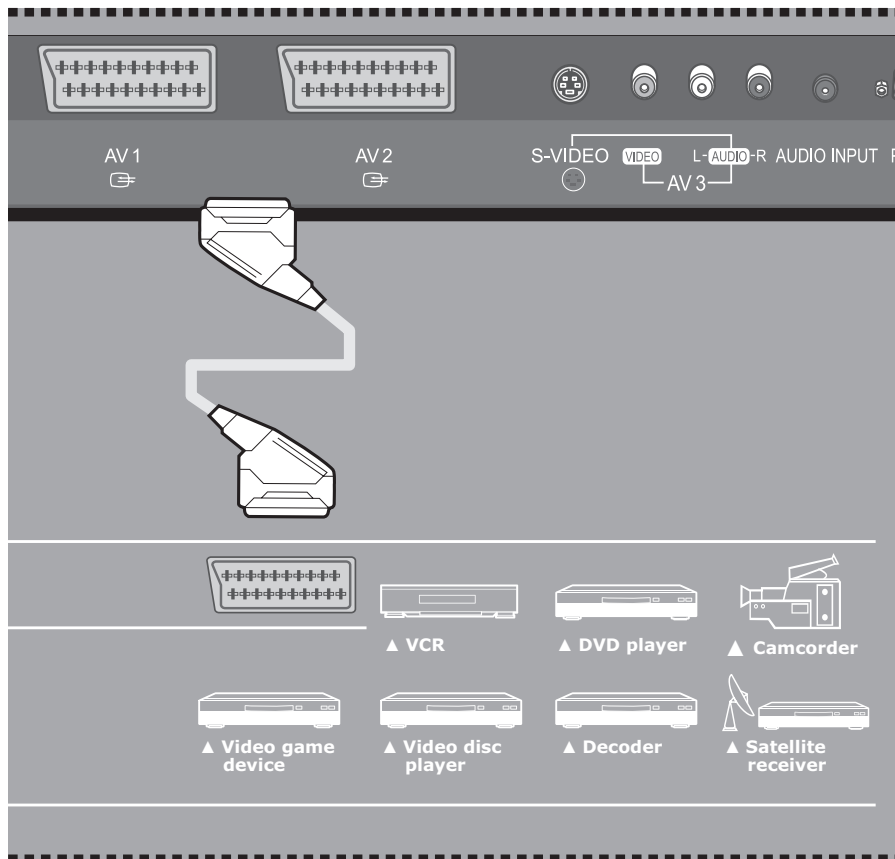
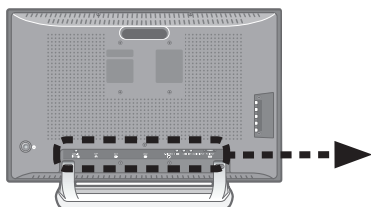
## Connecting to an Aerial

To view the TV channels correctly, a signal must be received by the TV. Connect the aerial or network input cable to the **ANT.IN** jack on the rear of the TV.



## Using the SCART cable

1. Connect the SCART cable between the **AV1** (or **AV2**) input jack on the TV and the video output jack on the required equipment.
2. Turn the TV on, then press the **TV/AV** button to select **AV1** or **AV2**.



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# Connecting the External Equipment

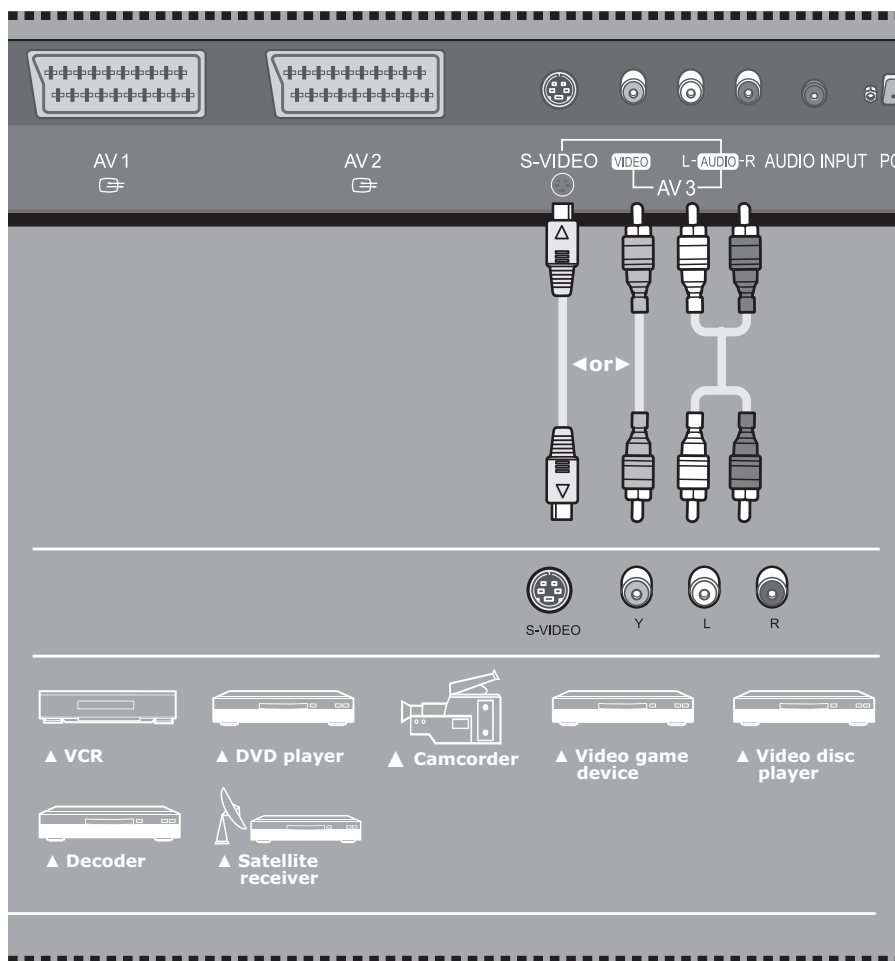
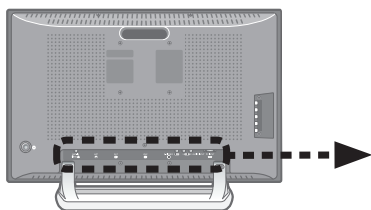
## Using the Audio/Video cable

1. Connect the video cable between the **VIDEO (AV3)** input jack on the TV and the video output jack on the required equipment.

**Note:** For the equipment with an **S-VIDEO** jack, connect the **S-Video** cable between the **S-VIDEO** input jack on the TV and the **S-Video** output jack on the required equipment.

2. Connect the audio cable between the **AUDIO-L/R (AV3)** input jack on the TV and the audio output jack on the required equipment.
3. Turn the TV on, then press the **TV/AV** button to select **AV3**.

**Note:** If you have connected the TV and the required equipment using an **S-Video** cable, select **S-Video**.





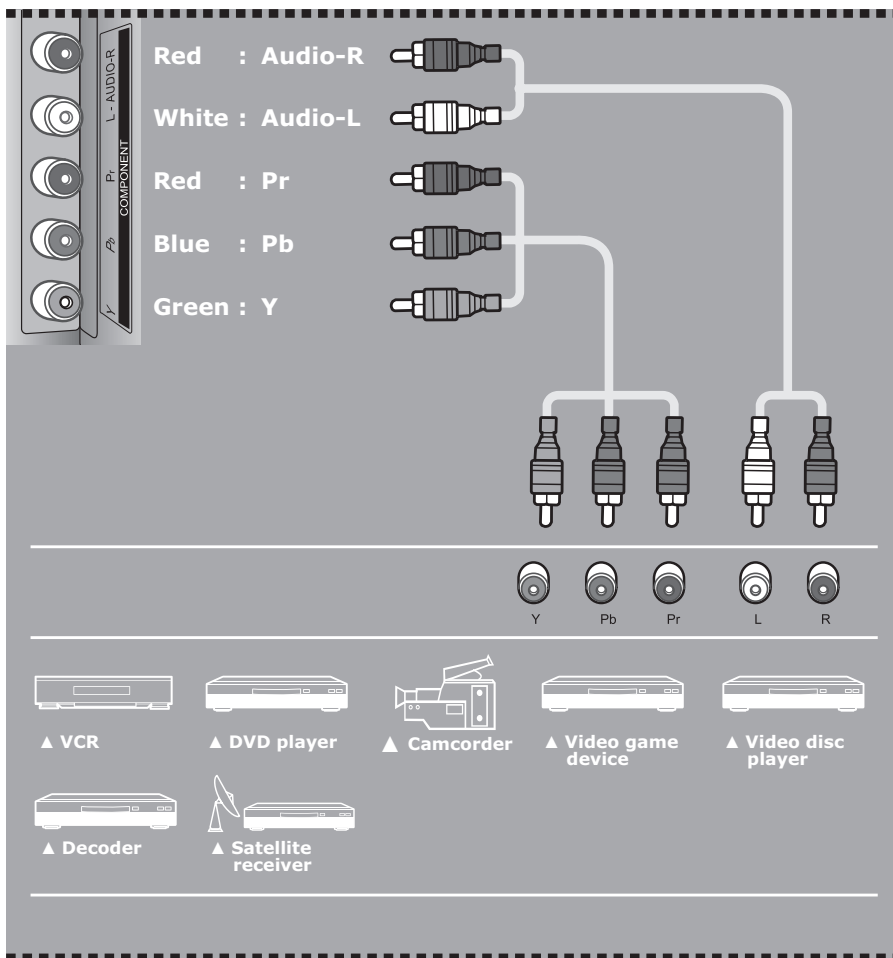
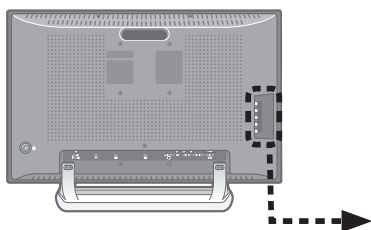
# Connecting the External Equipment

## Connecting to the Component Input

1. Connect the video cable between the **VIDEO-Y/Pb/Pr** input jacks on the TV and the video output jacks on the required equipment.

**Note:** Depending on the manufacturer, the **Y/Pb/Pr** jacks may be identified as **Y/PB/PR**, **Y/B-Y/R-Y** or **Y/CB/CR**.

2. Connect the audio cable between the **AUDIO-L/R** input jacks on the TV and the audio output jacks on the required equipment.
3. Turn the TV on, then press the **TV/AV** button to select **Component**.

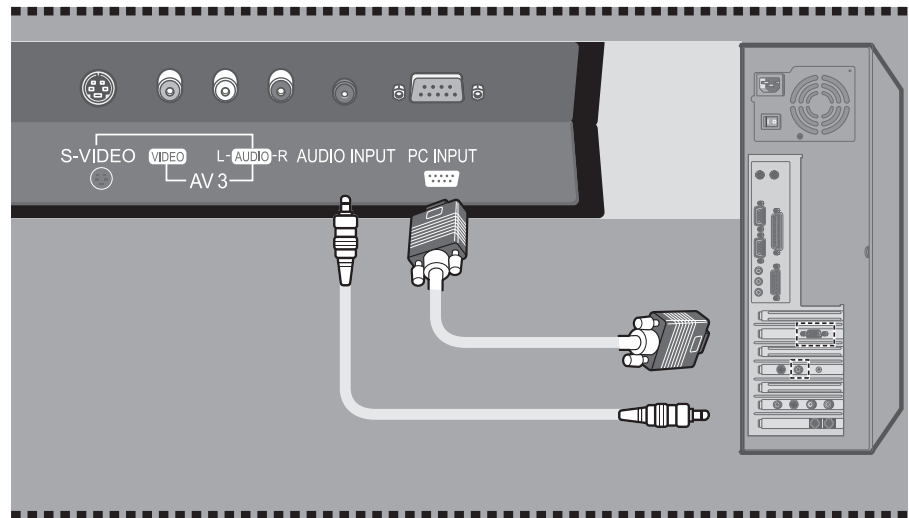
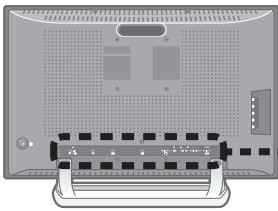




# Connecting the External Equipment

## Connecting a PC

1. Connect the PC cable between the **PC INPUT** jack on the TV and the PC output jack on the PC.
2. Connect the audio cable between the **AUDIO INPUT** jack on the TV and the audio output jack on the PC.
3. Turn the TV on, then press the **TV/AV** button to select **PC**.



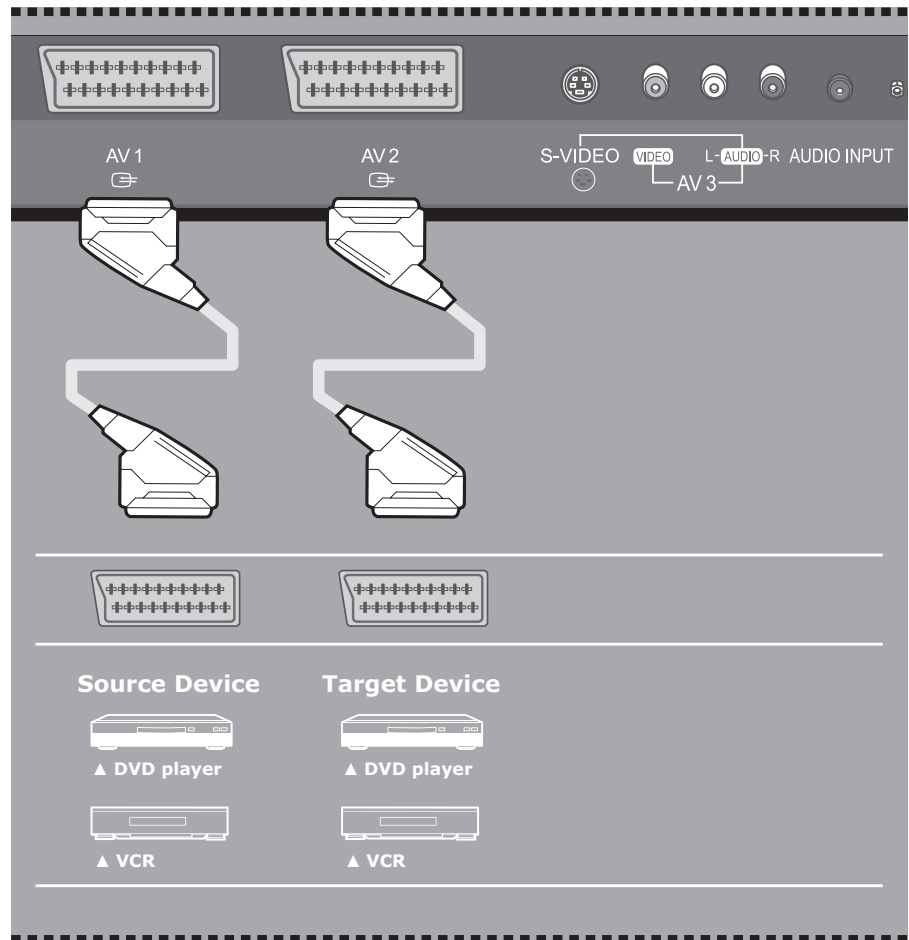
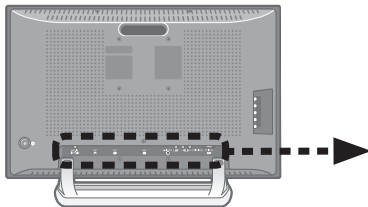


# Connecting the External Equipment

## Connecting to the External Output

1. If you have a second VCR (or DVD player) and wish to copy, connect the source VCR (or DVD player) to **AV1** and the target VCR (or DVD player) to **AV2** so that you can redirect the signal from **AV1** to **AV2**.
2. When you wish to record a programme, connect the receiver to **AV1** and the VCR (or DVD player) to **AV2** so that you can redirect the signal from **AV1** to **AV2**.

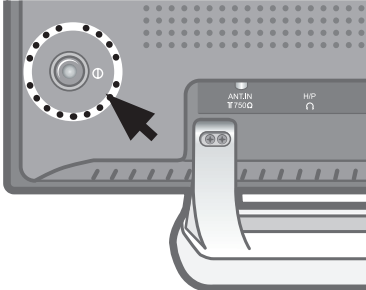
**Note:** For more details about how to record, refer to your required equipment's instructions.



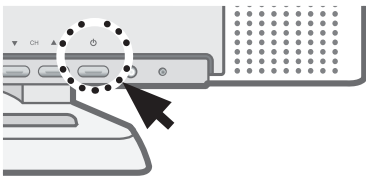


# Watching TV

## Switching On and Off







▲ Rear of TV




▲ Front of TV



1. Connect the power cord of the TV to a wall outlet.
2. Press the  button on the rear of the TV to turn the TV power on.  
The standby indicator lights up.
3. Press the , **OK** or **CH▼/CH▲** button on the front of the TV or press the **STANDBY**() , **TV/AV**, **CH-/CH+** or numeric (0~9) buttons on the remote control to switch the TV on.

**Note:** To place the TV in standby mode, press the **STANDBY** () button again on the remote control or on the front of the TV.  
It can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

4. To turn the TV power off, press the  button on the rear of the TV.

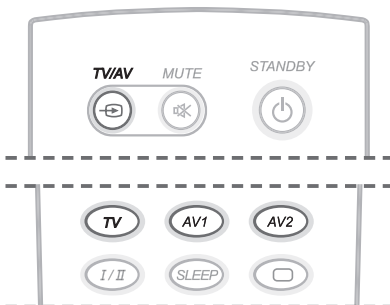
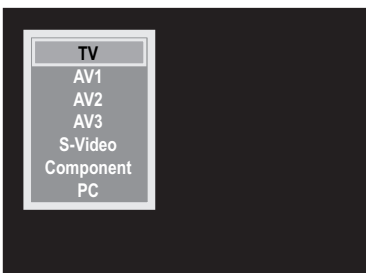
**Note:** Do not leave the TV in standby mode for too long (on holiday, for example). Turn the TV off by pressing the  button on the rear of the TV. It is best to disconnect the power cord.

## Viewing the Input Source

Once you have connected up your various audio and video systems, you can view different sources by selecting the appropriate input.

1. Press the **TV/AV** button.
2. Press the **▲** or **▼** button to select required input source as followings.  
**TV – AV1 – AV2 – AV3 – S-Video – Component – PC**
3. Press the **OK** button.  
It is switched to selected source.

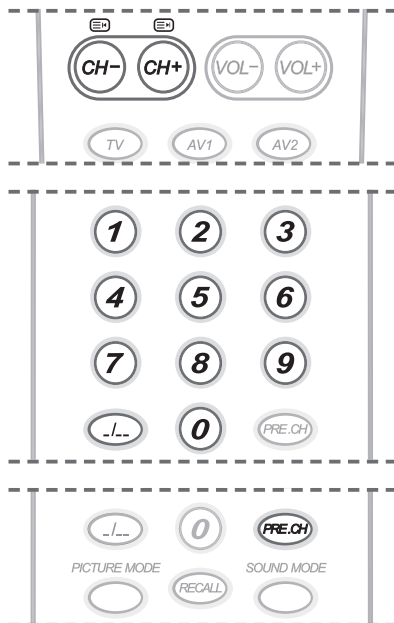
**Note:** You can select **TV**, **AV1**, or **AV2** by simply pressing the **TV**, **AV1**, or **AV2** button on the remote control.





# Watching TV

## Changing Channels



### Using the CH- / CH+ buttons.

Press the **CH-** (▼) or **CH+** (▲) button. The TV changes channels in sequence. You can select all channels that the TV has memorized.

**Note:** You can not select channels that were either erased or not memorized.

### Using the numeric (0~9) buttons.

Press the numeric buttons to quickly tune to any channel. For two digit channels, enter the two digit channel number after switching to two-digit channel mode using the \_/ \_ button.

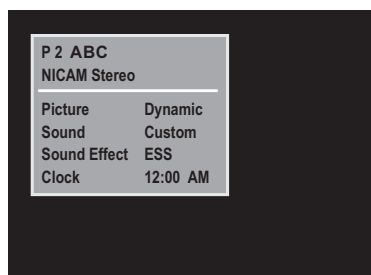
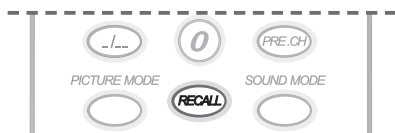
**Note:** You can select all channels that were either erased or not memorized. You can switch between one digit channel and two digital channel modes using the \_/ \_ button.

### Using the PRE.CH button.

Press the **PRE.CH** button to quickly tune to any channel. The TV changes to the last channel you were watching.

## Displaying Information

You can display the channel information and setting status you selected by pressing the **RECALL** button. Press it again to exit.



## Choosing Your Language

When you start using your TV for the first time, you must select the language which will be used for displaying menus and indications.

1. Press the **MENU** button.
2. Press the ▲ or ▼ button to move to **Setup**, then press the **OK** button. The **Language** is selected.
3. Press the **OK** button again.
4. Press the ◀ or ▶ button to select required language.



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# Setting up Channels

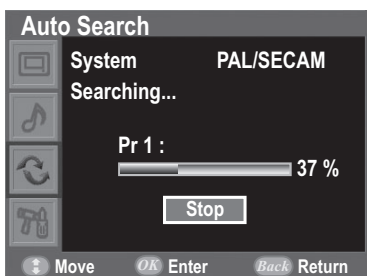
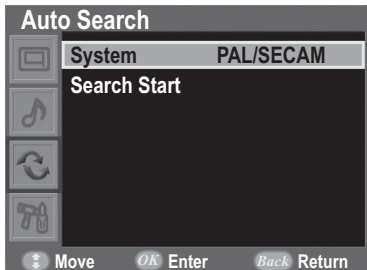
## Scanning Channels Automatically

You can automatically scan channels for the frequency ranges available (availability depends on your country).

1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Channel**, then press the **OK** button. The **Auto Search** is selected.
3. Press the **▶** or **OK** button again. The **System** is selected.

**Note:** In France, you can select the **France** by pressing the **OK** button.

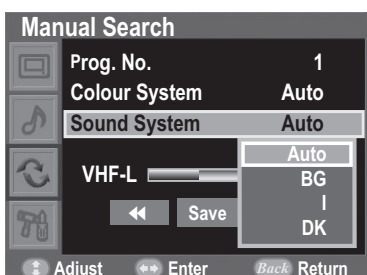
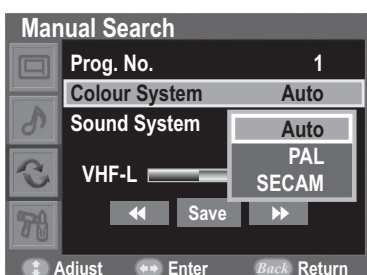
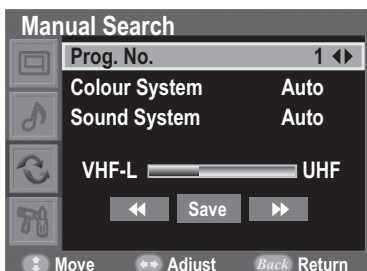
4. Press the **▲** or **▼** button to move to **Search Start**, then press the **OK** button. The scan starts. The scanned channels are automatically stored in the order. If you want to stop, press the **BACK** button.



## Scanning Channels Manually

You can choose whether or not to store each of the channels found and the programme number of each stored channel which you wish to identify.

1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Channel**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Manual Search**, then press the **OK** button. The **Prog. No.** is selected.
4. Press the **◀** or **▶** button to select the programme number to be assigned. If you do not know the programme numbers, move to **Save** by pressing the **▲** or **▼** button and start the search by pressing the **◀** or **▶** button. The tuner scans the frequency range until the first programme or the programme that you selected is received on your screen.
5. Press the **▲** or **▼** button to move to **Colour System**, then press the **OK** button.
6. Press the **▲** or **▼** button to select required broadcasting standard (**Auto**, **PAL**, or **SECAM**), then press the **◀** or **▶** button.
7. Press the **▲** or **▼** button to move to **Sound System**, then press the **OK** button.
8. Press the **▲** or **▼** button to select required sound standard (**Auto**, **BG**, **I** or **DK**), then press the **◀** or **▶** button.
9. Press the **▲** or **▼** button to move to **Save**, then press the **OK** button to store your settings.

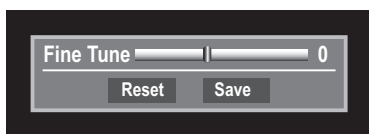




# Setting up Channels

## Fine Tuning Channel Reception

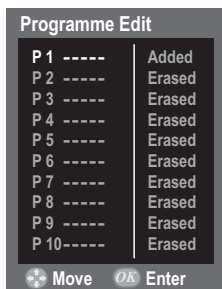
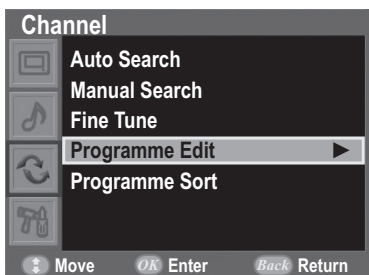
If the signal is weak or distorted, you may have to fine tune the channel manually.



1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Channel**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Fine Tune**, then press the **OK** button.
4. Press the **◀** or **▶** button to obtain a good quality of the picture and sound until you reach the optimal setting.
5. Press the **▼** button to move to **Save**, then press the **OK** button.
6. To reset the fine tuning to **0**, move to **Reset** by pressing the **◀** button and press the **OK** button.
7. Press the **BACK** button to return to the previous menu.

## Adding and Erasing Channels

You can add channels that were not memorized or delete unwanted channels from memory.



1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Channel**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Programme Edit**, then press the **OK** button.
4. Press the **▲** or **▼** button to select the programme to be added or erased, then press the **◀** or **▶** button.
5. Press the **OK** button repeatedly to select **Added** or **Erased**.
6. Press the **BACK** button to return to the previous menu.

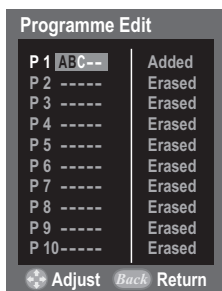
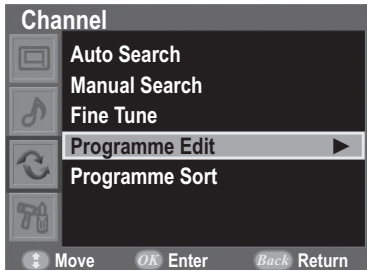




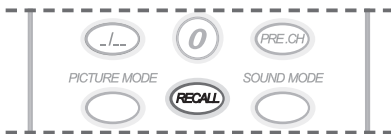
# Setting up Channels

## Assigning Names to Channels

You can assign an easy-to-remember name to any channel. When the **RECALL** button is pressed, the channel name will appear next to the channel number.

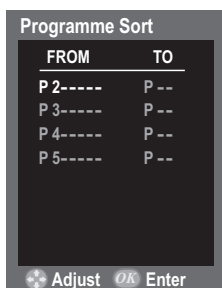
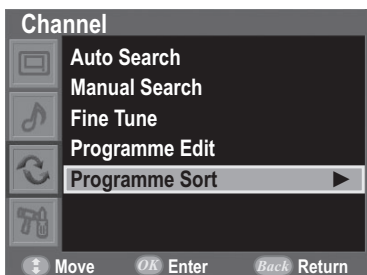


1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Channel**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Programme Edit**, then press the **OK** button.
4. Press the **▲** or **▼** button to select the channel to be assigned to a new name, then press the **OK** button.
5. Press the **▲** or **▼** button to select a letter (A~Z), a number (0~9) or a symbol (space, **\_**, **-**, **\***). Move on to the previous or next letter by pressing the **◀** or **▶** button.
6. When you have finished, press the **BACK** button to return to the previous menu.



## Sorting the Stored Channels

You can change the programme numbers of stored channels. This operation may be necessary after using the auto search.



1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Channel**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Programme Sort**, then press the **OK** button.
4. Press the **▲** or **▼** button to select the programme number that you wish to change.
5. Press the **◀** or **▶** button to select the new programme number that you wish to identify, then press the **OK** button.
6. Press the **BACK** button to return to the previous menu.

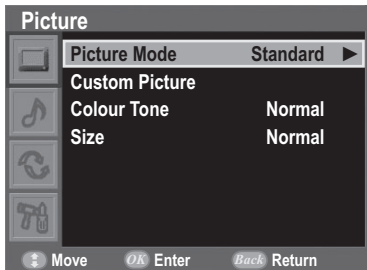




# Setting the Picture

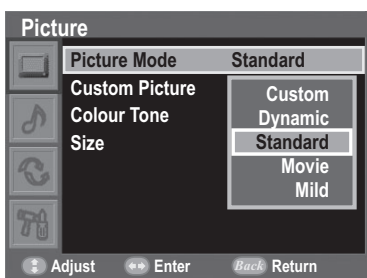
## Selecting the Picture Mode

You can select the picture mode which best corresponds to your viewing requirements.

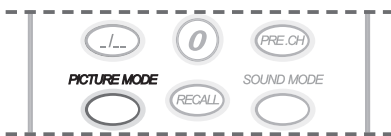


1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Picture**, then press the **OK** button. The **Picture Mode** is selected.
3. Press the **OK** button again.
4. Press the **▲** or **▼** button to select required picture mode as followings, then press the **◀** or **▶** button.

**Custom – Dynamic – Standard – Movie – Mild**

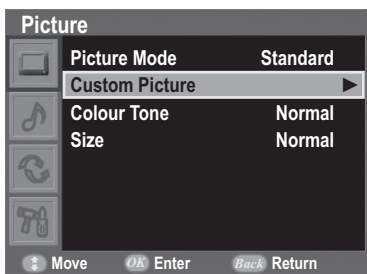


**Note:** You can select the modes by simply pressing the **PICTURE MODE** button on the remote control.



## Customizing the Picture Settings

This TV has several setting options that allow you to control the picture quality.

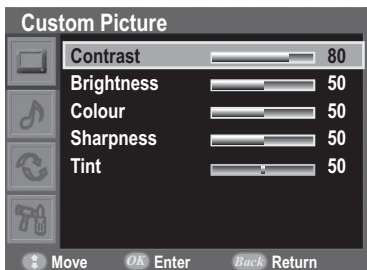


1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Picture**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Custom Picture**, then press the **OK** button.
4. Press the **▲** or **▼** button to select required option as followings, then press the **OK** button.

**Contrast – Brightness – Colour – Sharpness – Tint** (NTSC only)

The horizontal bar is displayed. Press the **◀** or **▶** button until you reach the optimal setting. To select other options, press the **▲** or **▼** button.

5. Press the **BACK** button to return to the previous menu.



**Notes:**

- If you make any changes to the options, the picture mode is automatically switched to **Custom**.
- **Tint** is not available in the **PAL** signal standard.

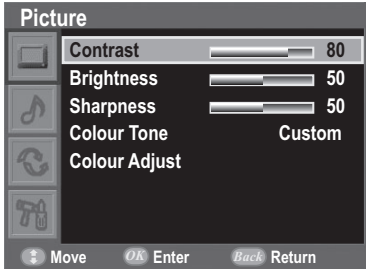




# Setting the Picture

## Customizing the Picture Settings (PC mode)

You can adjust the picture quality in PC mode.



1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Picture**, then press the **OK** button.
3. Press the **▲** or **▼** button to select required option as followings, then press the **OK** button.

### Contrast – Brightness – Sharpness

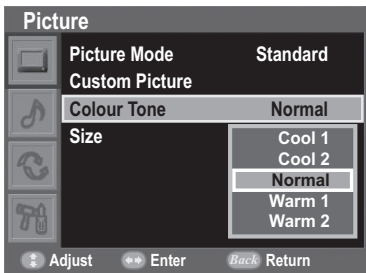
The horizontal bar is displayed. Press the **◀** or **▶** button until you reach the optimal setting. To select other options, press the **▲** or **▼** button.



4. Press the **BACK** button to return to the previous menu.

## Changing the Colour Tone

You can change the colour tone which best corresponds to your viewing requirements.

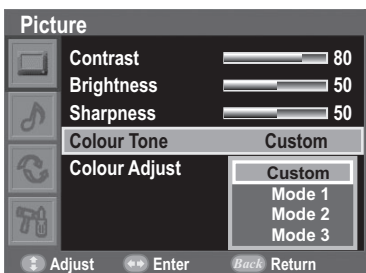


1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Picture**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Colour Tone**, then press the **OK** button.
4. Press the **▲** or **▼** button to select required colour tone as followings, then press the **◀** or **▶** button.

### Cool 1 – Cool 2 – Normal – Warm 1 – Warm 2

### Custom – Mode 1 – Mode 2 – Mode 3 : PC mode only

### ▼ PC mode





# Setting the Picture

## Adjusting the Colour (PC mode)

**Note:** It is available in PC input mode.

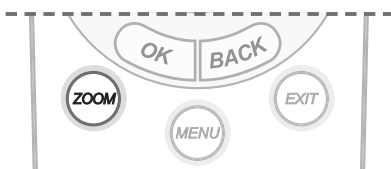
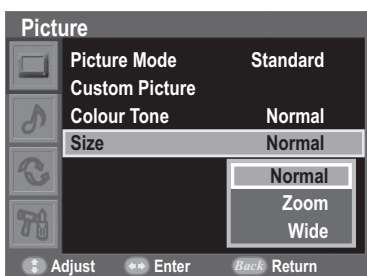
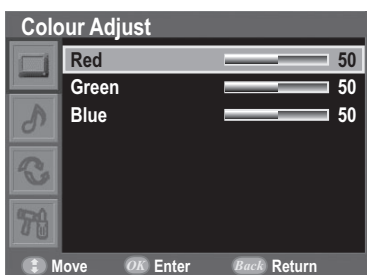
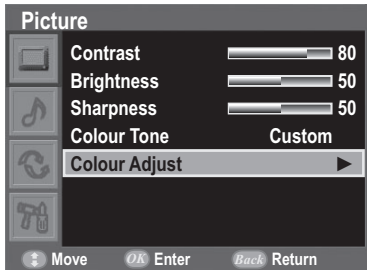
You can adjust the RGB colour in PC mode.

1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Picture**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Colour Adjust**, then press the **OK** button.
4. Press the **▲** or **▼** button to select required colour as followings, then press the **OK** button.

### Red – Green – Blue

The horizontal bar is displayed. Press the **◀** or **▶** button until you reach the optimal setting. To select other options, press the **▲** or **▼** button.

5. Press the **BACK** button to return to the previous menu.



## Changing the Picture Size

You can change the picture size which best corresponds to your viewing requirements.

1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Picture**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Size**, then press the **OK** button.
4. Press the **▲** or **▼** button to select required picture size as followings, then press the **◀** or **▶** button.

### Normal – Zoom – Wide

**Note:** You can select the picture sizes by simply pressing the **ZOOM** button on the remote control.

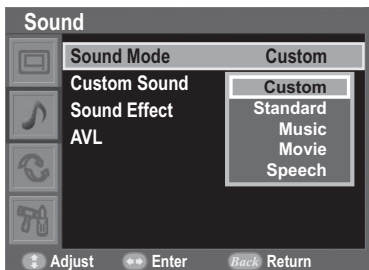




# Setting the Sound

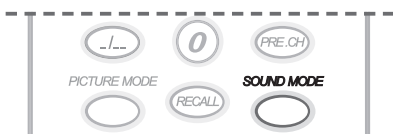
## Selecting the Sound Mode

You can select the sound mode to be used when watching a given broadcast.



1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Sound**, then press the **OK** button. The **Sound Mode** is selected.
3. Press the **OK** button again.
4. Press the **▲** or **▼** button to select required sound mode as followings, then press the **◀** or **▶** button.

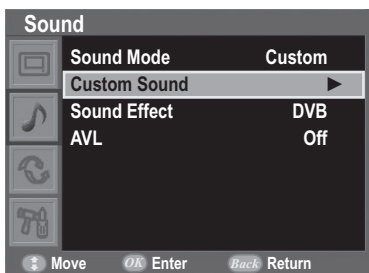
**Custom – Standard – Music – Movie – Speech**



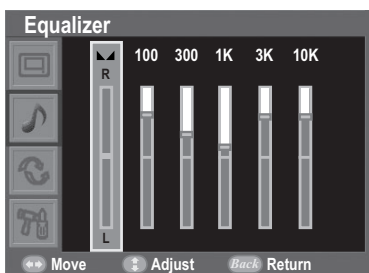
**Note:** You can select the modes by simply pressing the **SOUND MODE** button on the remote control.

## Customizing the Sound Settings

This TV has several setting options that allow you to control the sound quality.



1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Sound**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Custom Sound**, then press the **OK** button.
4. Press the **◀** or **▶** button to select required option, then press the **▲** or **▼** button until you reach the optimal setting.
5. Press the **BACK** button to return to the previous menu.

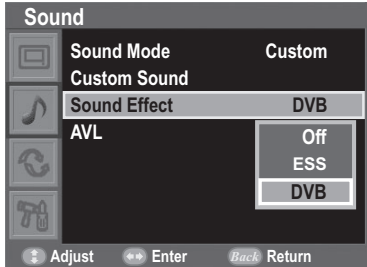




# Setting the Sound

## Changing the Sound Effect

The sound effect can be changed to suit your personal preferences.

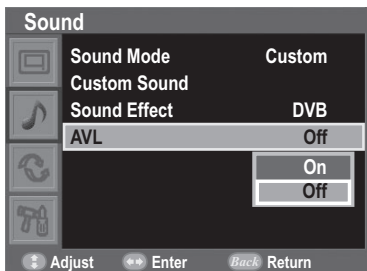


1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Sound**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Sound Effect**, then press the **OK** button.
4. Press the **▲** or **▼** button to select required sound effect as followings, then press the **◀** or **▶** button.

**Off** – **ESS** (Extended Spatial Stereo) – **DVB** (Dynamic Virtual Bass)

## Adjusting the Volume Automatically

Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.



1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Sound**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **AVL** (Auto Volume Level), then press the **OK** button.
4. Press the **▲** or **▼** button to select required option (**On** or **Off**), then press the **◀** or **▶** button.

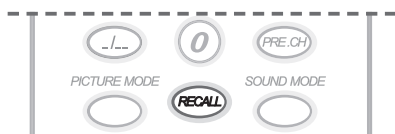
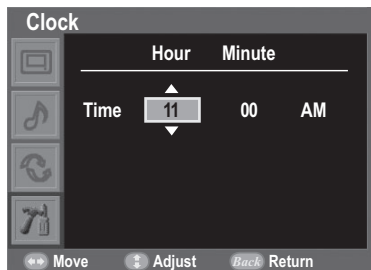




# Setting the Time

## Setting the Current Time

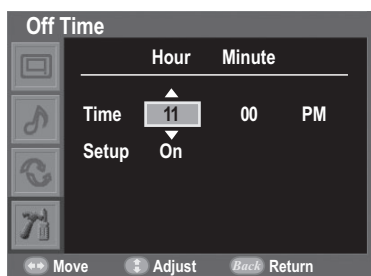
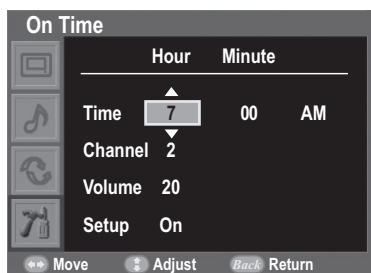
You can set the current time so that the current time is displayed when pressing the **RECALL** button to viewing information.



1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Setup**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Time**, then press the **OK** button. The **Clock** is selected.
4. Press the **OK** button again.
5. Press the **◀** or **▶** button to move to **Hour** and **Minute**, then set them by pressing the **▲** or **▼** button.
6. Press the **BACK** button to return to the previous menu.

## Setting the TV On and Off Time

You can set the on or off time so that the TV will switch on or off automatically at the time you select.



1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Setup**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Time**, then press the **OK** button.
4. To set the time at which you wish the TV to be switched on automatically, move to **On Time** by pressing the **▲** or **▼**, then press the **OK** button.
5. Press the **◀** or **▶** button to move to **Hour**, **Minute**, **Channel**, and **Volume**, then set them by pressing the **▲** or **▼** button.
6. Press the **◀** or **▶** button to move to **Setup**, then select **On** by pressing the **▲** or **▼** button.
7. When you have finished, press the **BACK** button to return to the previous menu.
8. To set the time at which you wish the TV to be switched off automatically, move to **Off Time** by pressing the **▲** or **▼**, then press the **OK** button.
9. Repeat steps **5** to **7** for off time setting.

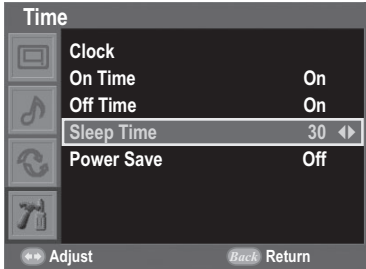




# Setting the Time

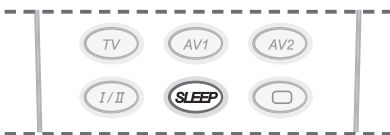
## Setting the Sleep Time

You can select a time period of between 30 and 180 minutes after which the TV automatically switches to standby mode.



1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Setup**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Time**, then press the **OK** button.
4. Press the **▲** or **▼** button to move to **Sleep Time**.
5. Press the **◀** or **▶** button to select the preset time interval as followings, then press the **BACK** button.

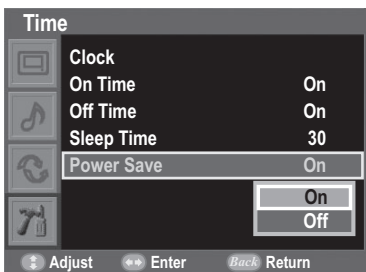
**Off - 30 (minute) - 60 - 90 - 120 - 150 - 180**



**Note:** You can select the sleep time by simply pressing the **SLEEP** button on the remote control.

## Switching the TV Off Automatically

If no signal is received and no controls are operated for 15 minutes, the TV will be automatically turned off.



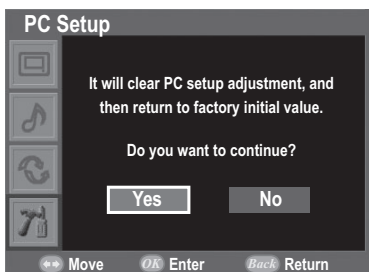
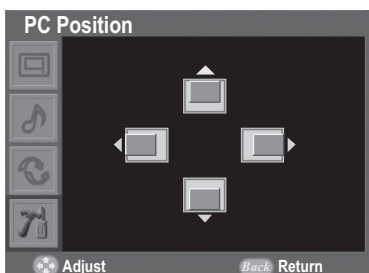
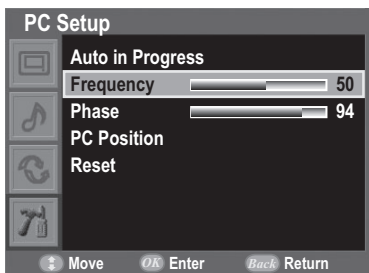
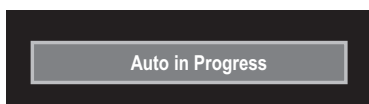
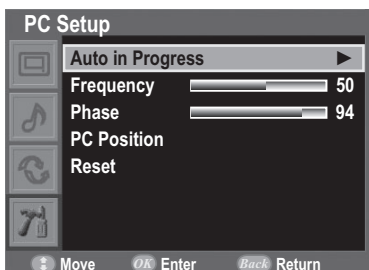
1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Setup**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **Time**, then press the **OK** button.
4. Press the **▲** or **▼** button to move to **Power Save**, then press the **OK** button.
5. Press the **▲** or **▼** button to select required option (**On** or **Off**), then press the **◀** or **▶** button.





# Setting up the PC Input

**Note:** It is available in PC input mode.



## Adjusting the Status of PC Screen Automatically

1. Press the **MENU** button.
2. Press the **▲** or **▼** button to move to **Setup**, then press the **OK** button.
3. Press the **▲** or **▼** button to move to **PC Setup**, then press the **OK** button. The **Auto in Progress** is selected.
4. Press the **OK** button again.  
The message **Auto in Progress** is displayed. The picture quality and position are automatically adjusted with optimal value, and the picture returns to original view about a few seconds later.

## Tuning the PC Screen for Improved Quality

5. Press the **▲** or **▼** button to select **Frequency** or **Phase**, then press the **OK** button. Press the **◀** or **▶** button until you reach the optimal setting, then press the **BACK** button.

## Selecting the Position of PC Screen

6. Press the **▲** or **▼** button to move to **PC Position**, then press the **OK** button.  
Select required position by pressing the **▲/▼/◀/▶** buttons, then press the **BACK** button.

## Resetting the PC Screen Settings

7. Press the **▲** or **▼** button to move to **Reset**, then press the **OK** button. The message for initializing is displayed.
8. Press the **◀** or **▶** button to select **Yes**, then press the **OK** button. All settings of PC screen are replaced with the factory initial values.



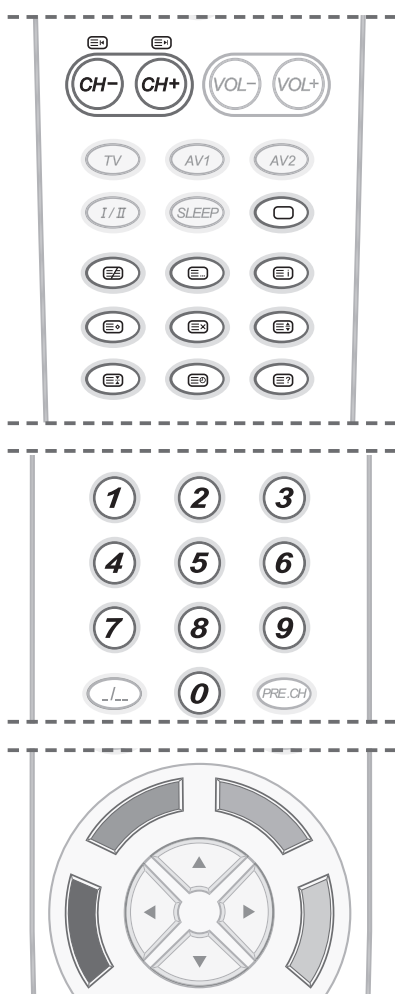


# Teletext Feature

Most TV stations provide written information services via teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

**Note:** For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.

## Using the Various Teletext Buttons



### (teletext off)

Press to deactivate teletext service.

### (teletext on/mix)


Press to activate teletext mode after selecting the channel providing the teletext service.

Press it again to overlap the teletext with the current broadcasting screen.

### (mode)

Press to select the teletext mode (LIST/FLOF).

If you press it in the LIST mode, it switches into the List save mode.

In the List save mode, you can save teletext page into list using the  (store) button.

### (index)

Press to display the index (contents) page at any time while you are viewing teletext.

### (store)

Press to store the teletext pages.

### (cancel)

Press to view the broadcast when searching for a page.

### (size)

Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

### (hold)

Press to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

### (sub-page)

Press to display the available sub-page.

### (reveal)

Press to display the hidden text (answers to quiz games, for example).

To display normal screen, press it again.

### (page down) / (page up)

Press to display the previous or next teletext page.

### **0~9 (numeric buttons)**

Press to enter the three-digit page number given in the content directly.

### **Coloured buttons (red/green/yellow/blue)**

If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are colour-coded and can be selected by pressing the coloured buttons. Press one of them corresponding to the required. The page is displayed with other coloured information that can be selected in the same way. To display the previous or next page, press the corresponding coloured button.

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# Teletext Feature

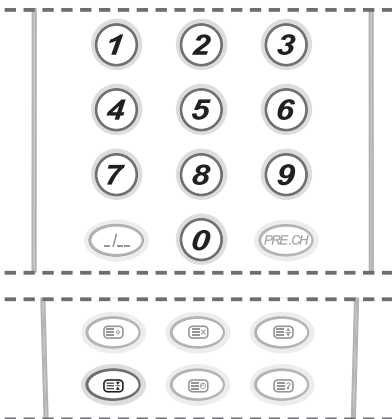
## Displaying the Teletext Information





1. Using the **CH-** or **CH+** button, select the channel providing the teletext service.
2. Press the  (**teletext on/mix**) button to activate the teletext mode. The contents page is displayed.
3. To display the actual broadcast simultaneously with the teletext page, press the  (**teletext on/mix**) button again.
4. To return the normal broadcasting mode, press the  (**cancel**) button.
5. Press the  (**teletext off**) button to exit from the teletext display mode.

**Note:** If any broken character appears while teletext is being viewed, make sure that the teletext language is identical with the language in the **Setup** menu. If both languages are different, select the same language with the teletext language in the **Setup** menu.

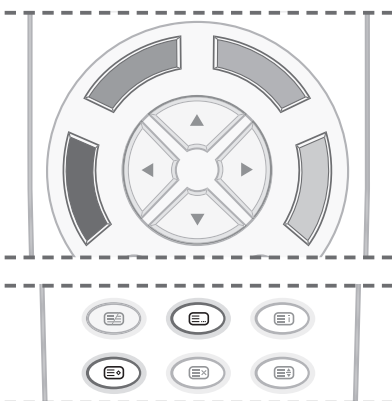
## Selecting a Specific Teletext Page






Press the number buttons on the remote control to enter the page number directly:

1. Enter the three-digit page number listed in the contents by pressing the corresponding numeric buttons. The current page counter is incremented and the page is displayed.
2. If the selected page is linked with several sub-pages, the sub-pages are displayed in sequence. To freeze the display on a given page, press the  (**hold**) button. Press the  (**hold**) button again to resume.

## Storing the Current Teletext Page into List



1. Press the  (**mode**) button to display the listed pages. The list appears at the bottom of the page.
2. Press the  (**mode**) button again to switch into the list save mode. The list is displayed with the coloured blocks.
3. Press the coloured button corresponding with the block to change into the current page.
4. To save the current teletext page completely, Press the  (**store**) button.

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# Menu Map

## Picture

### Picture Mode

- Custom
- Dynamic
- Standard
- Movie
- Mild

### Custom Picture

- Contrast
- Brightness
- Colour
- Sharpness
- Tint

### Colour Tone

- Cool 1
- Cool 2
- Normal
- Warm 1
- Warm 2

### Size

- Normal
- Zoom
- Wide

PC mode →

## Picture

### Contrast

### Brightness

### Sharpness

### Colour Tone

- Custom
- Mode 1
- Mode 2
- Mode 3

### Colour Adjust

- Red
- Green
- Blue

## Sound

### Sound Mode

- Custom
- Standard
- Music
- Movie
- Speech

### Custom Sound

- Equalizer

### Sound Effect

- Off
- ESS
- DVB

### AVL

- On
- Off





# Menu Map

## Channel

### Auto Search

- System
  - PAL/SECAM
  - France (France only)
- Search Start

### Manual Search

- Prog.No.
- Colour System
  - Auto
  - PAL
  - SECAM
- Sound System
  - Auto
  - BG
  - I
  - DK

### Fine Tune

### Programme Edit

### Programme Sort

## Setup

### Language

- English
- Deutsch
- Français
- Italiano
- Español
- Português
- Dansk
- Suomi
- Hollands
- Türkçe

### Time

- Clock
- On Time
- Off Time
- Sleep Time
- Power Save

### PC Setup

- Auto in Progress
- Frequency
- Phase
- PC Position
- Reset





# Troubleshooting

Before contacting after-sales service, perform the following simple solutions. If you cannot solve the problem using the following instructions, contact your local dealer.

## No picture or sound

- Check if the power cord is connected correctly.
- Check that you have pressed the **⏻** on the rear of the TV and the **STANDBY (⏻)** button on the remote control or the front of the TV.
- Select an input source channel appropriate for that particular source.
- Check the picture contrast and brightness settings.
- Check the volume.

## Normal picture but no sound

- Check the volume.
- Check whether the **MUTE** button on the remote control has been pressed.

## No picture or black and white picture

- Adjust the colour settings.
- Check that the broadcast system selected is correct.

## Sound and picture interference

- Try to identify the electrical appliance that is affecting the TV, then move it further away.
- Plug the TV into a different wall outlet.

## Blurred or snowy picture, distorted sound

- Check the direction, location and connections of your aerial. This interference often occurs due to the use of an indoor aerial.

## Remote control malfunctions

- Press the **TV/AV** button to select the TV or an external device.
- Replace the batteries in the remote control.
- Install batteries ensuring that the **(+)** and **(-)** ends of the batteries are inserted correctly.
- Check the angle and distance of the remote control to the TV. Make sure there are no obstacles between the remote control and the TV.
- Check that the correct function button has been pressed.
- Change the location of light sources or the direction of the TV to avoid glare.

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# Specifications

## Specifications

Item	Specification	
<b>LCD Panel</b>	+Type	- Colour active matrix TFT-LCD
	+Display Area (active area)	- 20.1" (408(H) x 306(V))mm
	+Display Colour	- 16.7 M
	+Pixel Pitch	- 0.2125(H) x 0.6375(V)
	+Max. Resolution	- 640 x 480 pixels
	+Interface	- TTL Interface
	+Viewing Angle(CR≥10)	- 160degrees Horizontal / 140degrees Vertical
	+Contrast Ratio	- 500 : 1 (Type)
	+Brightness	- 450 cd/m2 (Type)
	+Horizontal Frequency	- 48.5 kHz
+Vertical Frequency	- 60 Hz	
+Dimension	- 448.60(H) x 339.6(V) x 25.0(D) mm (Type)	
<b>PC Monitor</b>	+Sync	- Separate
	+Horizontal Frequency	- 31~61 kHz
	+Vertical Frequency	- 60 Hz
	+Max. Resolution	- 640 x 480 pixels @60Hz
<b>Input/ Output</b>	+Video Input	- Analog Tuner(1), SCART(2), S-Video, RCA, RGB, Component (480i/576i/576p/720p)
	+Audio Input	- SCART(2), RCA(R/L), PC Audio, Component(R/L)
	+Audio Output	- Speaker, Headphone
<b>TV Signal</b>	+Area	- EU
	+Antenna Input	- IEC 169-2 Female
	+Tuning System	- Programmable Frequency Synthesizer
	+Colour System	- PAL, SECAM (NTSC3.58 : AV mode)
	+Sound System	- B/G, I, D/K
	+Stereo System	- NICAM, A2
	+VHF Low	- 48.25 ~ 140.25 MHz (E2 ~ S6)
	+VHF High	- 147.25 ~ 423.25 MHz (S7 ~ S36)
	+UHF	- 431.25 ~ 855.25 MHz (S37 ~ E69)
+Teletext	- Yes	
<b>Regulation</b>	+Safety	- CE
	+EMC	- CE
<b>Others</b>	+Power	- 60 Watt (Max)
	+Speaker Output	- 3W x 2EA
	+Plug & Play Level	- DDC 1/2 B
	+Weight	- NET : 22.5 kg / Gross : 27.5 kg
	+Power Supply	- 220-240V~, 50/60 Hz





# Service and Support

You can get information such as a troubleshooting guide, software upgrades and product support guide from the web sites and call center (Hotline). Please try to contact to your local dealers first when you have any problem.

## Web site and e-mail

### Web site

Global : <http://www.humaxdigital.com>

UK : <http://www.humaxdigital.co.uk>

Germany : <http://www.humax-digital.de>

Australia : <http://www.humaxaustralia.com>

### HCSA (HUMAX Customer Service Area)

(Software Download, Information and Technical Q&A)

English : <http://www.humaxdigital.com/hcsa>

Deutsch : <http://www.humaxdigital.com/deutsch/hcsa>

### Technical Q&A

Europe & North Africa : [tech-info@humax-digital.co.uk](mailto:tech-info@humax-digital.co.uk)

Germany : [techinfo@humax-digital.de](mailto:techinfo@humax-digital.de)

Australia : [techinfoau@humaxdigital.com](mailto:techinfoau@humaxdigital.com)





# Service and Support

## Call Center

### Technical Support

To receive hardware repair service, contact your retail shop first. For more information, contact the call center.

### Technical hotlines for all our products except the BTCI

#### ▪ United Kingdom

**Tel.** | 0870-2478800

**Opening Time** | Local Time in UK (GMT+0)  
8:30 - 18:00 (Monday - Friday)

**Support Language** | English

#### ▪ Germany

**Tel.** | Germany : 01805-778900 ( € 0,12/Minute)  
Other Countries : + 49 1805-778870  
( € 0,12/Minute + International Call Charge)

**Opening Time** | Local Time in Germany (GMT+1)  
8:00 - 23:00 (Monday - Sunday)

**Support Language** | Deutsch/English

#### ▪ Italy

**Tel.** | 899-100080

**Opening Time** | Local Time in Italy (GMT+1)  
8:00 - 18:00 (Monday - Friday)

**Support Language** | Italian

#### ▪ Australia

**Tel.** | 1800-613011

**Opening Time** | Local Time in Australia (GMT+10)  
9:00 - 17:00 (Monday - Friday)

**Support Language** | English

### Technical hotlines for BTCI (Premiere Model)

**Germany** | 01805-778900 ( € 0,12/Minute)

**Austria** | 0820-400675 ( € 0,12/Minute)

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