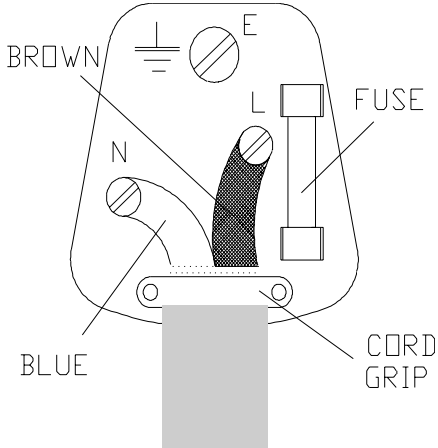


## Important Instruction

For your own safety read following instruction carefully before attempting to connect this unit to the mains supply.

### MAINS (AC) OPERATION

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



**BLUE-NEUTRAL**

**BROWN-LIVE**

### IMPORTANT

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

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

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

No connection is to be made to the earth terminal of the plug.

If a 13 Amp (BS 1363) Plug is used a 5 Amp Fuse must be fitted, or if any other type of Plug is used a 5 Amp Fuse must be fitted, either in the Plug of Adaptor, or on the Distribution Board.

### CAUTION

TO PREVENT ELECTRIC SHOCK DISCONNECT FROM THE MAINS BEFORE REMOVING COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

### SAFETY PRECAUTION

THIS EQUIPMENT MUST BE DISCONNECTED FROM THE MAINS WHEN NOT IN USE. DO NOT ALLOW THIS UNIT TO BE EXPOSED TO RAIN OR MOISTURE.

## Preparation

Place TV on a solid surface.

For ventilation, leave a space of at least 10 cm free all around the set. To prevent any fault and unsafe situations, please do not place any objects on top of the set.

Use this apparatus in tropical and/or moderate climates.

## Features

- It is a remote controlled colour television.
- 100 programmes from VHF, UHF bands or cable channels can be preset.
- It can tune cable channels.
- Controlling the TV is very easy by its menu driven system.
- It has Euroconnector socket for external devices (such as computer, video, video games, audio set, etc.)
- Second Euroconnector socket is available.
- FrontAV (FAV) and BackAV Out is available.
- 3D Panorama sound system is available.
- Full function Teletext (Fastext)
- It is possible to connect external speaker.
- It is possible to connect headphone.
- Direct channel access.
- APS Plus (Automatic Programming System).
- All programmes can be named.
- Programme swapping between last watched two programmes.
- Forward or backward automatic tuning.
- Sleep timer.
- Automatic sound mute when no transmission.
- 5 minutes after the broadcasting (close-down), the TV switches itself automatically to stand-by mode.
- Child lock.

## Safety Precautions

### 1. Power Source

The receiver should be operated only from a **230-240V AC, 50 Hz.** outlet. Ensure you select the correct voltage setting for your convenience.

### 2. Power Cord

The power supply cord should be placed so that they are not likely to be walked on or pinched by items placed upon them or against them. Pay particular attention to cord where they enter the plug, power outlet, and the point where they exit from the receiver.

### 3. Moisture and Water

Do not use this equipment in a humid and damp place (avoid the bathroom, the sink in the kitchen, and near the washing machine). Do not expose this equipment to rain or water and do not place objects filled with liquids on it as this may be dangerous.

### 4. Cleaning

Before cleaning, unplug the receiver from the main supply, outlet. Do not use liquid or aerosol cleaners. Use with soft and dry cloth.

### 5. Ventilation

The slots and openings on the receiver are intended for ventilation and to ensure reliable operation. To prevent overheating, these openings must not be blocked or covered in anyway.

### 6. Lightning

In case of storm and lightning or when going on holiday, disconnect the power cord from the wall outlet.

### 7. Replacement Part

When replacement parts are required, be sure the service technician has used replacement parts which are specified by the manufacturer or have the same specifications as the original one. Unauthorized substitutions may result in fire, electrical shock, or other hazards.

## 8. Servicing

Please refer all servicing to qualified personnel. Do not remove cover as this may result in electric shock.

## 9. X-rays

The x-rays generated in this television are shielded sufficiently. Beam potential is max. 30kV.

## 10. Flame sources

Do not place naked flame sources on the apparatus.

### **Warning!**

*Any intervention contrary to regulations, in particular, any modification of high voltage or a replacement of the picture tube may lead to an increased concentration of x-rays. Any television modified in this way no longer complies with license and must not be operated.*

### **Instructions for waste disposal:**

- Packaging and packaging aids are recyclable and should principally be recycled. Packaging materials, such as foil bag, must be kept away from children.
- Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area

“DO NOT LEAVE YOUR TV ON STAND-BY OR OPERATING CONDITION WHEN YOU LEAVE YOUR HOUSE”

## Cleaning The Screen

Your TV is fitted with a „True Flat“ picture tube. The surface of the screen is covered with a foil. Under no circumstances may this be damaged.

### **To clean**

Clean the laminated screen with a soft cotton cloth. Only non-alkaline, thinned soapsuds on a basis of water or alcohol be used to moisten the cloth. Rub the surface gently with the cloth until the surface is completely dry.

### **Under no circumstances...**

may the screen be wiped with conventional glass cleaning fluid.

may the screen be brought into contact with abrasive materials.

may soiling be removed by polishing or scouring.

**To clean off sticky substances, the cloth can be moistened with acetone.**

**Under no circumstances clean with this acetone cloth the TV-Cabinet.**



## **CAUTION**

### **RISK OF ELECTRIC SHOCK**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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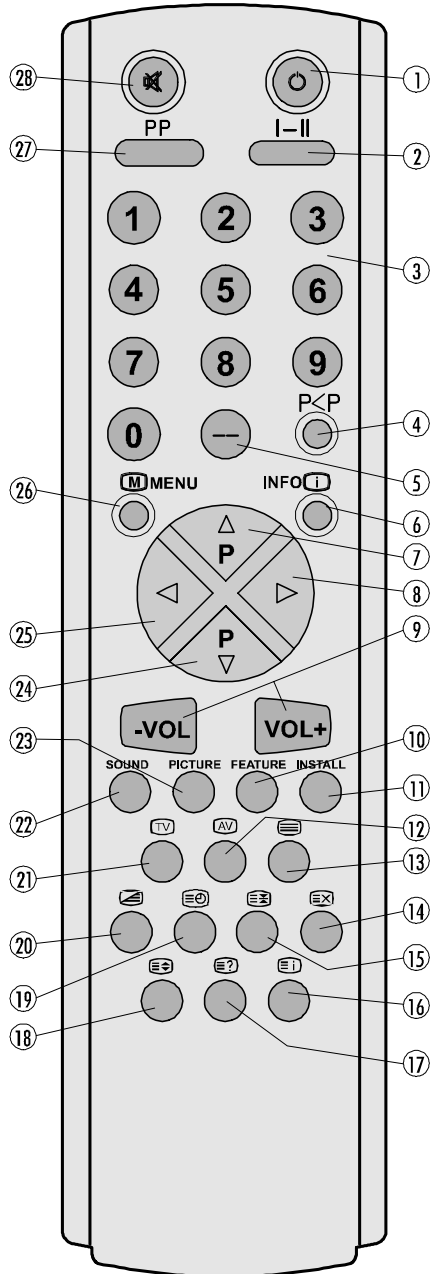
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# Remote Control Buttons

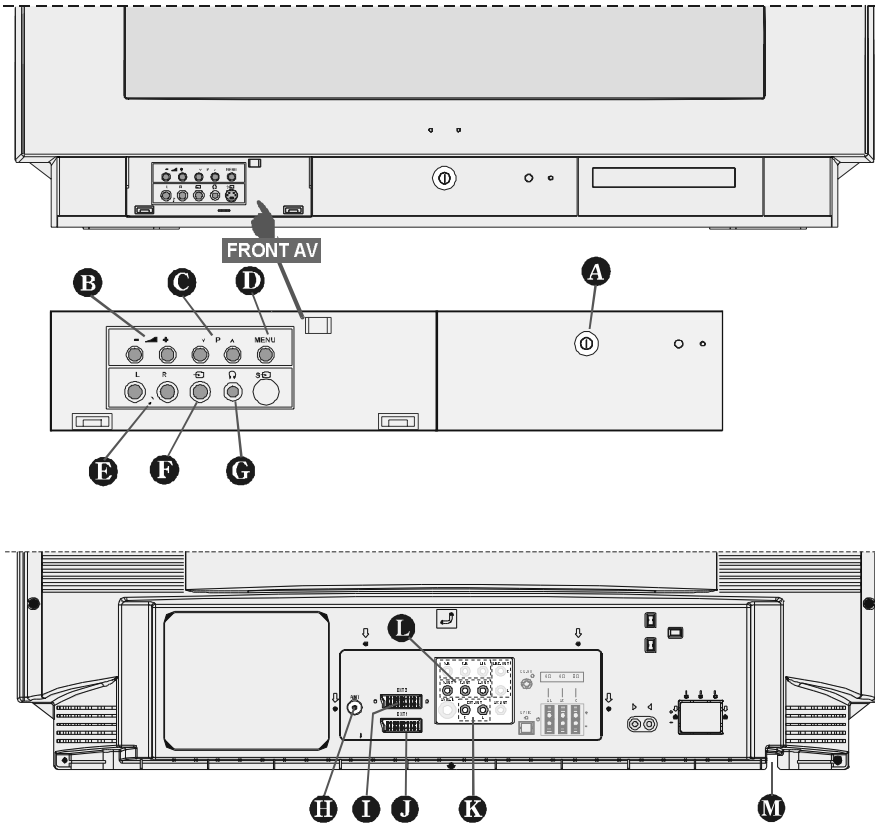
- ① = Stand By
- ② **I-II** = Mono/Stereo - Dual I-II
- ③ **0 - 9** = Direct Program
- ④ **P<P** = Previous Programme
- ⑤ **--** = Two Digit Program Number Entry
- ⑥ **INFO** = Info
- ⑦ **P** = Programme Up (Cursor Up)
- ⑧ **▷** = Cursor Right
- ⑨ **-VOL. / VOL. +** = Volume - / Volume +
- ⑩ **Yellow (FEATURE)** = Feature Menu
- ⑪ **Blue (INSTALL)** = Installation Menu
- ⑫ **AV** = External Source (AV-1, AV-2, F-AV, RGB)
- ⑬ = Teletext
- ⑭ = Update
- ⑮ = Hold
- ⑯ = Index Page
- ⑰ = Reveal
- ⑱ = Expand
- ⑲ = Time
- ⑳ = Mix
- ㉑ **TV** = TV / Quit Menu
- ㉒ **Red (SOUND)** = Sound Menu
- ㉓ **Green (PICTURE)** = Picture Menu
- ㉔ **P** = Programme Down (Cursor Down)
- ㉕ **<** = Cursor Left
- ㉖ **M MENU** = Menu
- ㉗ **PP** = Recall Personal Preference
- ㉘ = Mute

## PICTURE MODE CHANGE BUTTON

- ⑭ = Auto / 4:3 / 16:9 / CINEMA



## Control Panel Buttons



**A**  $\text{\textcircled{I}}$  = Power On / Off

**B** -  $\blacktriangle$  + = Volume +/-

**C**  $\nabla$  P  $\blacktriangle$  = Programme +/-

**D** MENU = Menu

**E** AUDIO L/R = Audio left / right

**F** VIDEO = VCR

**G** H-PHONE = Headphone 3,6 mm  $\varnothing$

**H** ANT = Antena (75 $\Omega$ )

**I** EXT 2 = Scart-Socket 2

**J** EXT 1 = Scart-Socket 1

**K** EXT-OUT = External Speaker,  
R = right / L = left

**L** Back AV OUT

**M** Power Cable

## Before Switching on your TV

### Power connection

**IMPORTANT:** The TV set is designed to operate on **230-240V AC, 50 Hz.**

- After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.

### Aerial Connections

- Connect the aerial plug to the aerial input socket located at the back of the TV.

### How to connect other devices

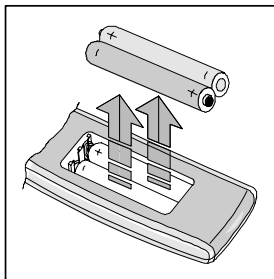
**IMPORTANT:** Switch off the TV before connecting any external device.

Sockets for external connections are on the back of the TV.

For connection of other devices via Euroconnector (RCA JACK) refer to the manuals of the related devices.

### Inserting batteries in the remote control handset

- Remove the battery cover located on the back of the handset by gently pulling upwards from the indicated part.
- Insert two **MN2400 AAA** or equivalent type batteries inside.
- Replace the battery cover.



**NOTE:** Remove batteries from remote control handset when it is not to be used for a long period. Otherwise it can be damaged due to any leakage of batteries.

## Switching the TV ON/OFF

*You can operate your TV either using the remote control handset or directly using the TV onset buttons.*

### To switch the TV on

Your TV will switch on in two steps:

**1-** Press the power button located on the front of the TV. Then the TV switches itself to standby mode and the **RED LED** located below the TV turns on.

**2-** To switch on the TV from stand-by mode either:

Press a digit button on the remote control so that a programme number is selected,

or,

Press Programme Up and Down buttons on the front of the TV or on the remote control respectively, so the TV will switch on and the **RED Led** will turn **GREEN**.

### To switch the TV off

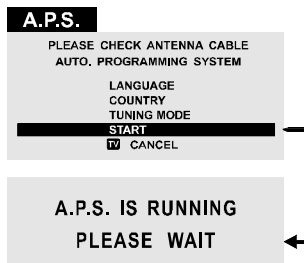
- Press the stand-by button on the remote control, so the TV will switch to stand-by mode and the **GREEN LED** will become **RED**, or,
- Press the power button located on the front of the TV.

## Operating the TV

*You can operate your TV both using the remote control handset and onset buttons.*

### APS (Automatic Programming System)

The **APS** menu will appear when you first switch on your TV for the first time.



APS automatically programmes your TV, according to the transmission of programme systems in your area.

- First come to the Country item and select your country, according to which the TV will automatically programme the TV, from the available countries, by pressing “◀” or “▶” button . You will see the available countries in the highlighted bar at the bottom of the **WARNING** menu.
- By pressing the up and down buttons, come to the Language item and select the language in which the menus of the TV will appear. You will see the available languages in the highlighted bar at the bottom of the **WARNING** menu. As soon as you change the language , the menu items will be displayed in the selected language.
- By pressing the up and down buttons, come to the Tuning Mode item and select the mode at which your TV will run the APS. If you select Channel Tuning Mode, APS will run according to Channel Tuning Mode and will auto-search according to the Channel numbers of the stations in your area. If you select Frequency Tuning Mode , APS will run according to Frequency Tuning Mode and will auto-search according to the frequencies of the stations in your area. Selected tuning mode will appear in the highlighted bar at the bottom of the **WARNING** menu.
- After selecting the Tuning Mode if you want to start APS, by pressing the up and down buttons, come to the Continue item and by pressing ◀” or “▶” button start the APS.
- If you do not want to start APS, you can cancel it by pressing the TV button on your remote control.
- When you start APS the below menu will appear on the screen.

**A.P.S. IS RUNNING**  
**PLEASE WAIT**

After APS is finalised, a rank list will appear on the screen. In the rank list you will see

the programme numbers and names, assigned to the programmes. First the programme with programme number 1 will be displayed and the programme number 1 will be flashing. Using “⏪” or “⏩” or “◀” or “▶” key you can move the flashing number and then display the programme corresponding to the flashing number pressing **RED** button.

If you do not accept the correspondence between programme numbers and names and want to change them, press “**M** MENU” button and then **BLUE** button, so that you enter the Installation menu. In the Installation menu select **TUNING** menu and enter it. To use tuning menu, refer to the Tuning submenu in the Installation Menu section of this manual.

## Operating with the onset buttons

Volume setting and programme selection can be made using the buttons on the front panel.

### **Volume Setting**

- Press “-Volume” button to decrease volume or “Volume+” button to increase volume, so a volume level scale will be displayed on the screen.

### **Programme Selecting**

- Press “**Programme Up**” button to select next programme or “**Programme Down**” button to select the previous programme.

### **Entering Main Menu**

- Press Menu button “**MENU**” to enter main menu. In the main menu select submenu using “**Programme+**” or “**Programme-**” button and enter the submenu using “**Volume+**” or “**-Volume**” button. To learn the usage of the menus, refer to the **Menu System** section of this manual.

## Operating with Remote Control

The remote control handset of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.

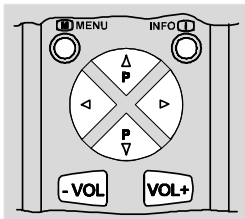


Functions which you can use out of menu system are described below.

### Volume Setting

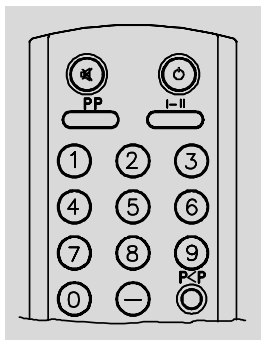
Press **VOL+** button to increase volume.

Press **-VOL** button to decrease volume.



### Programme Selecting (Previous or next programme)

- Press "**P**" button to select the previous programme.
- Press "**P**" button to select the next programme.



### Programme Selecting (direct access):

Press digit buttons on the remote control handset to select programmes between 0 and 9.

Press **-** button to select programmes between 10 and 99. **-** will be displayed on the screen. Then press the programme number. (e.g. for programme 27, press 2 and 7)

Press directly the programme number to re-select single digit programmes.

### Programme Swapping:

- Press **"P<P"** (programme swap) button to swap between last two selected programmes. E.g. : Select programme 8, then select programme 2. Now, if you press **"P<P"** button, programme 8 will be selected. If you press the same button again, programme 2 will be selected and so on...

### Menu System

Your TV has been designed with a menu system, to provide an easy manipulation of a multifunction system. TV is controlled by choosing the commands displayed on the screen.

Below has been described how to use the menu system.

- Press Menu **"M MENU"** button. Main menu will be displayed on the screen.

Each option is displayed with a different colour on the remote control. To select an option, press the button with the corresponding colour, on the remote control handset. For example for sound settings, press **RED** button, for picture settings, press **GREEN** button etc.

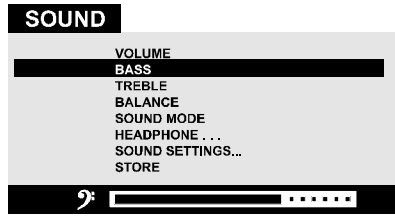
### Information Menu

When you do not know what to do in a menu, just press the information button **"INFO i"** to get some help. In the information menu, there are remote control buttons on the left. At the right of each button it is explained what will happen when you press that particular button.

When you press the information button **"INFO i"** in any menu, an explanation of how to:

- Select and go to a submenu
  - Select and change items
  - go to the previous menu
  - exit that menu
- is given.





In all the menus, pressing “ $\Delta$ ” or “ $\nabla$ ” button one of the items can be selected, pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button item can be changed or you can go to submenu, pressing “**M** MENU” button you can go to previous menu and pressing “**TV**” button that menu can be exited.

## Sound Menu

### To change sound settings

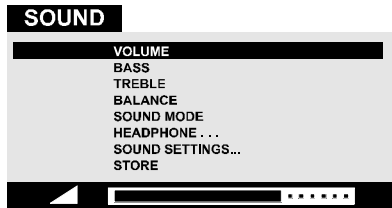
- Enter the Sound Menu directly, pressing the **Red** button or,
- Press “**M** MENU” button, now you are in main menu. In the main menu, select **SOUND** using “ $\Delta$ ” or “ $\nabla$ ” button, then enter the sound menu pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button.

### Setting Volume:

As you enter the sound menu, Volume will be the first selected option.

- Press “ $\triangleright$ ” button to increase volume.
- Press “ $\triangleleft$ ” button to decrease volume.

Or you can directly change the volume settings using “**VOL+**” (to increase) or “**-VOL**” (to decrease) button.

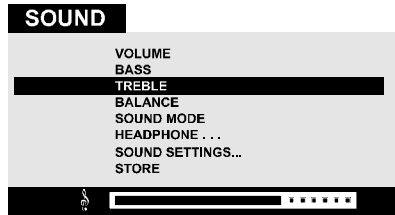


### Setting Bass Level:

- Using “ $\Delta$ ” or “ $\nabla$ ” button select Bass.
- Press “ $\triangleright$ ” button to increase bass level.
- Press “ $\triangleleft$ ” button to decrease bass level.

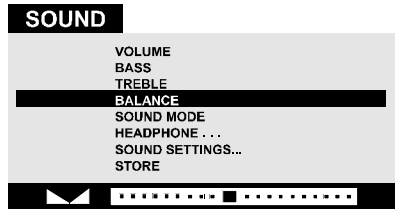
### Setting Treble Level:

- Using “ $\Delta$ ” or “ $\nabla$ ” button select Treble.
- Press “ $\triangleright$ ” button to increase treble level.
- Press “ $\triangleleft$ ” button to decrease treble level.



### Setting Balance:

- Using “ $\Delta$ ” or “ $\nabla$ ” button select Balance.
- Press “ $\triangleright$ ” button to change balance rightwards.
- Press “ $\triangleleft$ ” button to change balance leftwards.



### Setting Sound Mode:

Depending on the channel you are watching, this mode can be MONO, STEREO, DUAL I or DUAL II.

- Using “ $\Delta$ ” or “ $\nabla$ ” button select Sound Mode.
- Press “ $\triangleleft$ ” or “ $\triangleright$ ” button to change the sound mode.

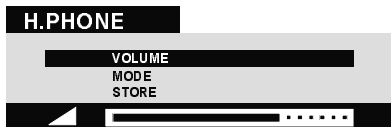
Or

You can directly change the sound mode by pressing I-II button.



## To Change Headphone Sound Settings:

When you connect headphones, you can change the headphone sound settings entering the headphone menu. To do this, select headphone using “ $\triangle$ ” or “ $\nabla$ ” button then enter headphone menu pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button.



## Setting Headphone Volume:

- As you enter the Headphone sound menu, Volume will be the first selected option.
- Press “ $\triangleright$ ” button to increase the headphone volume.
- Press “ $\triangleleft$ ” button to decrease the headphone volume.

## Setting Headphone Sound Mode:

- Using “ $\triangle$ ” or “ $\nabla$ ” button select Mode.

Pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button will change the current sound mode. (e.g.: If the current sound mode is stereo, it will be stereo or vice versa).

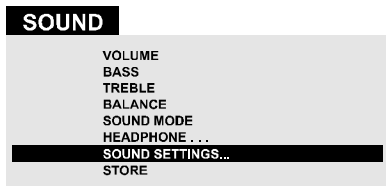
In case of bilingual broadcast, you can select original or dubbed language again using mode menu. So when somebody listens to the original language from the loudspeakers, somebody else can listen to the dubbed language from headphone.

## To Store the Settings:

- Using “ $\triangle$ ” or “ $\nabla$ ” button select Store. Press “ $\triangleleft$ ” or “ $\triangleright$ ” button to store current headphone volume and balance. The stored values will be valid for all the programmes.

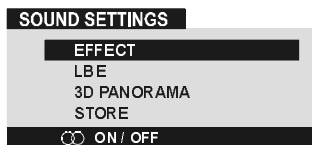
## To Change Sound Settings:

- Using “ $\triangle$ ” or “ $\nabla$ ” button select Sound Settings.
- Press “ $\triangleleft$ ” or “ $\triangleright$ ” button to enter the Sound Settings menu.



## Setting Sound Effect:

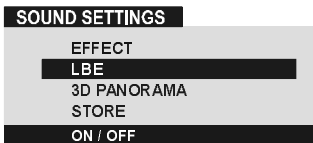
You can use this feature to switch on and off sound effect. Pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button will turn on and off this feature. If the current sound system is MONO and the sound effect is set ON, then the sound will be heard as if it is STEREO. If the current sound system is STEREO, switching this effect on will make the sound deeper. Switching it off will make no change in MONO and STEREO.



## Setting LBE (Loudspeaker Bass Enhancement):

Loudspeakers or headphones cannot play sounds under a specific frequency, which can vary from one loudspeaker or headphone to another. Using LBE function, you can hear that very bass frequencies from your loudspeakers and headphones.

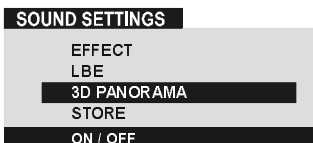
- Using “ $\triangle$ ” or “ $\nabla$ ” button select LBE.
- Press “ $\triangleleft$ ” or “ $\triangleright$ ” button to make LBE ON or OFF.



## Setting 3D Panorama (3-Dimensional Sound):

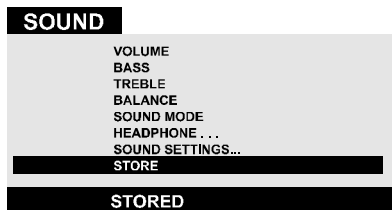
This function creates a 3-dimensional sound by using your 2 existing loudspeakers on your TV set. It does not need any additional center or surround speakers, that's why it is also called as Virtual Surround. You must be close to your TV set (about 3 meters) and be in front of it to hear the 3D Panorama affect better.

- Using “ $\Delta$ ” or “ $\nabla$ ” button select 3D Panorama.
- Press “ $\triangleleft$ ” or “ $\triangleright$ ” button to make 3D Panorama ON or OFF.



## To Store the Settings:

- Using “ $\Delta$ ” or “ $\nabla$ ” button select Store. Press “ $\triangleleft$ ” or “ $\triangleright$ ” button to store current sound settings. The stored values will be valid for all the programmes.



## Picture Menu

### To change picture settings:

- Enter the Picture Menu directly, pressing the **GREEN** button or,
- Press “**M** MENU” button, now you are in main menu. In the main menu, select **PICTURE** using “ $\Delta$ ” or “ $\nabla$ ” button, then enter

the picture menu pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button.

### Setting Brightness:

- As you enter the picture menu, BRIGHTNESS will be the first selected option.
- Press “ $\triangleright$ ” button to increase BRIGHTNESS.
- Press “ $\triangleleft$ ” button to decrease BRIGHTNESS.



### Setting Colour:

- Using “ $\Delta$ ” or “ $\nabla$ ” button select COLOUR.
- Press “ $\triangleright$ ” button to increase COLOUR level.
- Press “ $\triangleleft$ ” button to decrease COLOUR level.



### Setting Contrast:

- Using “ $\Delta$ ” or “ $\nabla$ ” button select CONTRAST.
- Press “ $\triangleright$ ” button to increase CONTRAST level.
- Press “ $\triangleleft$ ” button to decrease CONTRAST level.



## Setting Sharpness:

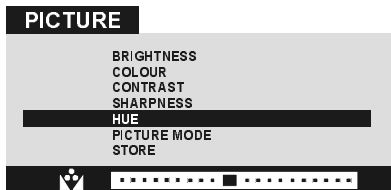
- Using “ $\hat{P}$ ” or “ $\hat{V}$ ” button select SHARPNESS.
- Press “ $\triangleright$ ” button to increase SHARPNESS level.
- Press “ $\triangleleft$ ” button to decrease SHARPNESS level.



## Setting Hue:

(In AV mode only) :

- Using “ $\hat{P}$ ” or “ $\hat{V}$ ” button select HUE.
- Press “ $\triangleright$ ” button to increase HUE level.
- Press “ $\triangleleft$ ” button to decrease HUE level.



## Picture Mode Menu:

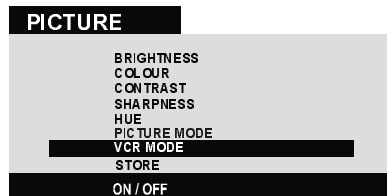
This menu is used to change the picture size according to the coming transmission.

- If auto function is selected, then the picture size will be automatically changed according to the transmission.
- Selecting 4:3 mode forces picture ratio size to 4:3.
- Selecting 16:9 mode forces picture ratio size to 16:9.
- Selecting CINEMA mode forces picture ratio to CINEMA.
- You can change the picture mode directly from the remote control by pressing “ $\text{EX}$ ” button.



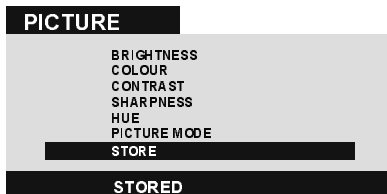
## VCR ( Video Cassette Recorder ) MODE MENU

- This item can be seen only in **AV modes** (AV-1, AV-2, F-AV, RGB).
- If you want to watch a **VCR or VCD** source from one of these **AV modes**, then it will be better to set **VCR mode “on”**, by first coming on this item and then by “ $\triangleleft$ ” or “ $\triangleright$ ” buttons setting it “ON”. You will observe the status on the highlighted bar at the bottom of the **Picture** menu.
- If you want to watch a **DVD**, then you must set this item “off”; because **DVD** is not a source like a **VCR or VCD** and to see the picture better, you must set the **VCR mode “OFF”**.



## To Store the Settings:

- Using “ $\hat{P}$ ” or “ $\hat{V}$ ” button select STORE. Press “ $\triangleleft$ ” or “ $\triangleright$ ” button to store current picture settings. The stored values will be valid for all the programmes. Picture Mode setting is stored for each program individually.



## Feature Menu

- Enter the Feature Menu directly, pressing the **YELLOW** button or,
- Press "**M** MEN" button, now you are in main menu. In the main menu, select **FEATURE**, using "**▲**" or "**▼**" button. Then enter the feature menu pressing "**◀**" or "**▶**" button.

### Sleep Timer:

- As you enter the feature menu, Sleep Timer will be the first selected option.
- Use "**◀**" or "**▶**" button to change the value of the sleep timer between Off, **0:15, 0:30, 0:45, 1:00, 1:15, 1:30, 1:45, 2:00** hours. Your TV will get into standby mode when the period you selected passes after you make the selection.



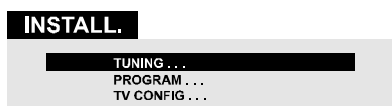
### Child Lock:

- The Child Lock feature may be set to either On or Off. When Off is selected, there will be no difference in the operation of your TV. When On is selected, the TV can only be controlled by the remote control handset. In this case, the front panel buttons (except the Switch On/Off button) will not work.



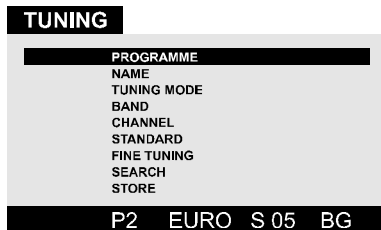
## Installation Menu

This menu consists of Tuning, Program. (Programming) and TV Configuration sub-menus.



## Tuning Menu

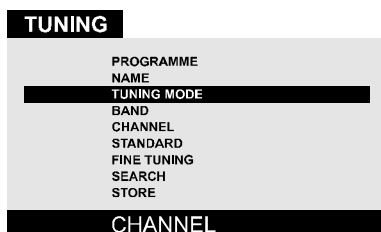
- Press "**M** MENU" button so that you enter the main menu. In the main menu select **Installation** using "**▲**" or "**▼**" button and open the installation menu pressing "**◀**" or "**▶**" button. (To open the **Installation Menu** directly, do not enter the main menu, but only press the **BLUE** button). In the installation menu select **TUNING**. Pressing "**◀**" or "**▶**" button, enter the **TUNING** menu.



### Automatic Search

- **Programme** will be the first selected item as you enter the **TUNING** menu. Pressing "**◀**" or "**▶**" button select the programme where you want the tuned station to be stored. (You may also type the programme number using the digit buttons.)
- 2. Press "**▲**" or "**▼**" button to select Tuning Mode. By pressing "**◀**" or "**▶**" button, you can select the mode in which you want the search to be made, "**Channel Search**" mode or "**Frequency Search**" mode.

When you select "**Channel Search**" ("**Channel**" will be displayed at the bottom bar of the menu.), the display of the Tuning Menu will be as below :



- As "**Channel Search**" is selected, TV will search according to the channel numbers, in the channel table.

- Press “ $\hat{P}$ ” or “ $\hat{V}$ ” button to select **Band**. Using “ $\triangleleft$ ” or “ $\triangleright$ ” button, select the band in which search is to be made.
- With the “ $\hat{P}$ ” or “ $\hat{V}$ ” button, select **Search**. Search can be made either forward, pressing “ $\triangleright$ ” button or backwards, pressing “ $\triangleleft$ ” button.
- If the tuned station is not the desired one, you can continue searching pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button again.
- When the desired station is tuned, select STORE using “ $\hat{P}$ ” or “ $\hat{V}$ ” button and store it to the programme number you selected pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button.
- Now as you had selected the Channel Search, the tuning mode of the program is stored as Channel Search Mode.
- To stop searching before a channel is found, press the reverse direction button (for example when searching is made in forward direction, press backwards direction button to stop searching).

### Direct Channel Access

- If you know the broadcast band and channel number of the station you want to tune, you do not need to make search; select **Band**, using “ $\hat{P}$ ” or “ $\hat{V}$ ” button in the TUNING menu. Select the band of the station, pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button. Then select **Channel** pressing “ $\hat{P}$ ” or “ $\hat{V}$ ” button. Press “ $\triangleleft$ ” or “ $\triangleright$ ” button to find the channel number or directly type it using the digit buttons. As you change the channel numbers the corresponding stations will be displayed.

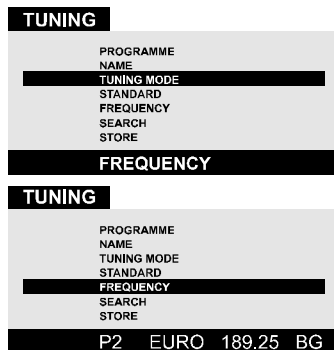
To store the station to the programme number selected, select STORE option using “ $\hat{P}$ ” or “ $\hat{V}$ ” button and then press “ $\triangleleft$ ” or “ $\triangleright$ ” button to store it.

Now as you had selected the Channel Search, the tuning mode of the program is stored as Channel Search Mode.

### Fine Tuning

Picture or sound quality can be poor in regions where transmission is not received good enough. In such cases, picture and sound quality can be improved by fine tuning. To make fine tuning:

- In the tuning menu, press “ $\hat{P}$ ” or “ $\hat{V}$ ” button to select **Fine Tuning** item. Pressing “ $\triangleleft$ ” button continuously, fine tuning will be made backwards and pressing “ $\triangleright$ ” button continuously, it will be made forward. When reception of transmission is improved, to store it, select **STORE** option using “ $\hat{P}$ ” or “ $\hat{V}$ ” button and store it to the selected programme number pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button.
- When you select "Frequency Search", the display of the Tuning menu will be as below :



- As "**Frequency Search**" is selected, TV will search according to the channel frequencies.
- With the “ $\hat{P}$ ” or “ $\hat{V}$ ” button, select **Search**. Search can be made either forward, pressing “ $\triangleright$ ” button or backwards, pressing “ $\triangleleft$ ” button.
- The search will be done with steps of 0.25MHz. in each step.
- If the tuned station is not the desired one, you can continue searching pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button again.

- When the desired station is tuned, select STORE using “ $\hat{P}$ ” or “ $\hat{F}$ ” button and store it to the programme number you selected pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button.
- Now as you had selected the Frequency Search, the tuning mode of the program is stored as Frequency Search Mode.

### **Direct Frequency Access**

- If you know the broadcast band and the channel frequency of the station you want to tune, you do not need to make search; select Frequency, using “ $\hat{P}$ ” or “ $\hat{F}$ ” button in the Frequency Mode Tuning Menu. You can type the first 3 digits of the frequency using the digit buttons, and then you can select the decimal part of the frequency by using “ $\triangleleft$ ” or “ $\triangleright$ ” buttons with 250kHz steps. For example if you want to tune the station at frequency 224.25 MHz; first you can directly type 224. The bar at bottom of the menu will show 224.00 . Then by increasing or decreasing with 0.25 MHz steps using “ $\triangleleft$ ” or “ $\triangleright$ ” buttons, you can select the 224.25MHz .When you type and select the frequency, the corresponding station will be displayed.
- To store the station to the programme number selected, select STORE option using “ $\hat{P}$ ” or “ $\hat{F}$ ” button and then press “ $\triangleleft$ ” or “ $\triangleright$ ” button to store it.
- Now as you had selected the Frequency Search, the tuning mode of the program is stored as Frequency Search Mode.

### **To name a Programme**

First select the programme number you want to name. Then select name option using “ $\hat{P}$ ” or “ $\hat{F}$ ” button. After that press “ $\triangleleft$ ” or “ $\triangleright$ ” button to select the position of the letter to be changed and press “ $\hat{P}$ ” or “ $\hat{F}$ ” button to change that letter. After that select and change the other letters as well in order to name the programme correctly. Finally to store the name, select store option using “ $\hat{P}$ ” or “ $\hat{F}$ ” button and store it pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button.

### **To change Standard**

*(You can change this menu only between standards which your TV set supports.)*

Pressing “ $\hat{P}$ ” or “ $\hat{F}$ ” button select **Standard** option. Then select the standard you want pressing “ $\triangleleft$ ” or “ $\triangleright$ ” button. When changing the standard this way, if the previous channel is not defined for the new selected standard, then also the channel will be changed to the first defined channel of that standard (For example: When changing BG to K1 and the previous channel is C12, after changing the standard, the channel will be C4, because the first defined channel of standard K1 is C4). After that, if it is returned to the previous standard back, the channel will not be changed to the previous one anymore (That means, in the example above, when it is returned from K1 to BG again, the channel will not change to C12 anymore and keep C4).

Defined channels for different standards are given as following:

**B/G** : C01-C83, S01-S41

**I** : C01-C17, C21-C73  
S01-S19, S22-S41

**Note** : Channel Search Tuning Mode uses a channel table. The channels and stations at the table may vary from table to table and from country to country. Each channel has an exact frequency on the table.

- Frequency Search Tuning Mode does not use a channel table and it is slower than Channel Search Tuning Mode.
- Channel Search Tuning Mode is recommended for the countries which uses standart channel table.
- Frequency Search Tuning Mode recommended for the countries which uses non-standart channel table and recommended to use instead of VST TUNERS.



## PROGRAM. (Programming) Menu

**Program. (Programming)** menu is used to display the programme names and numbers. You can use this menu to delete a channel, to insert a channel and to autostore the programmes. You can access this menu directly via **"INFO i"** button in no menu condition.

Select the **PROGRAM.** menu pressing " $\triangleleft$ " or " $\triangleright$ " button and open it pressing " $\triangleleft$ " or " $\triangleright$ " button. When you enter the programme menu, all the programme numbers and names will be displayed on the screen. The programme number and name of the tuned channel will be shown by the red colour. All the other channel numbers will be black and at first the programme number 0 will be flashing. You can move the flashing number using " $\triangleleft$ " or " $\triangleright$ " or " $\triangleleft$ " or " $\triangleright$ " button. As you pass through the programme numbers this way, to reach the programme number you want, the channels corresponding to the programme numbers you pass through will not be tuned.

Pressing the **RED** button will tune the channel on the flashing programme number. Now the colour of the flashing programme number will be red. Again you can use " $\triangleleft$ " or " $\triangleright$ " or " $\triangleleft$ " or " $\triangleright$ " button to move the flashing number.

PROGRAM.					
0 1	ARD	1 1	----	2 1	----
0 2	ZDF	1 2	----	2 2	----
0 3	WR3	1 3	----	2 3	----
0 4	SAT	1 4	----	2 4	----
0 5	RTL	1 5	----	2 5	----
0 6	RTL2	1 6	----	2 6	----
0 7	PRO7	1 7	----	2 7	----
0 8	BR3	1 8	----	2 8	----
0 9	TM3	1 9	----	2 9	----
1 0	---	2 0	----	3 0	----
SELECT		DELETE			
INSERT		AUTOSTORE			

**To delete a channel from a programme number:**

- Move the flashing onto the channel you want to delete.
- Press the **YELLOW** button. Now the corresponding channel will be deleted and all the other channels below this programme number will be moved one programme number up.

**To insert a channel into a programme number:**

- Move the flashing onto the selected channel.
- Press the **RED** button, so that channel will be displayed on the screen.
- Move the flashing onto the selected programme number. Now pressing the **GREEN** button will insert the channel on screen displayed into that programme number. If a channel is moved to a lower programme number, channels between the previous and current position of the selected channel will be moved one programme number up and if a channel is moved to a upper programme number, channels between the previous and current position of the selected channel will be moved one programme number down.

## APS (Automatic Programming System)

**APS** automatically programmes your TV, according to the transmission of programme systems in your area.

If you want to make APS any other time:

- Press **BLUE** button. Now you are in the **INSTALLATION** menu.
- Select **PROGRAM.** menu using " $\triangleleft$ " or " $\triangleright$ " button.
- Press " $\triangleleft$ " or " $\triangleright$ " button to enter the **PROGRAM.** menu.
- In the **PROGRAM.** menu enter **AUTOSTORE** menu by pressing **BLUE** button. Here you can run APS ( Automatic Programming System). APS automatically programmes your TV , according to the transmission of programme systems in your area.

A warning message will appear on the screen as below :

**WARNING**

ALL PRESTORED PROGRAMMES  
WILL BE ERASED

**TUNING MODE**

CONTINUE  
TV CANCEL

**CHANNEL**

- If you do not want the stations to be stored automatically, cancel APS pressing TV button.
- If you want to continue, then first by pressing the up and down buttons, come to the Tuning Mode item and select the mode at which your TV will run the APS. If you select Channel Tuning Mode, APS will run according to Channel Tuning Mode and will auto-search according to the Channel numbers of the stations in your area. If you select Frequency Tuning Mode, APS will run according to Frequency Tuning Mode and will auto-search according to the frequencies of the stations in your area. Selected tuning mode will appear in the highlighted bar at the bottom of the **WARNING** menu.
- Then, after selecting the Tuning Mode if you want to start APS, by pressing the up and down buttons, come to the Continue item and by pressing “◀” or “▶” button start the APS.
- When you start APS the below menu will appear on the screen.

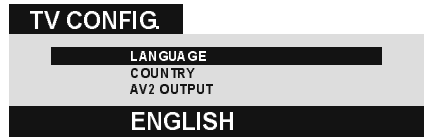
**A.P.S. IS RUNNING  
PLEASE WAIT**

After APS is finalised, a rank list will appear on the screen. In the rank list you will see the programme numbers and names, assigned to the programmes. First the programme with programme number 1 will be displayed and the programme number 1 will be flashing. Using “▲” or “▼” or “◀” or “▶” key you can move the flashing number and then display the programme corresponding to the flashing number pressing RED button.

If you do not accept the correspondence between programme numbers and names and want to change them, press “(M) MENU” button and then **BLUE** button, so that you enter the Installation menu. In the Installation menu select **TUNING** menu and enter it. To use tuning menu, refer to the Tuning sub-menu in the Installation Menu section of this manual.

## TV Config. Menu

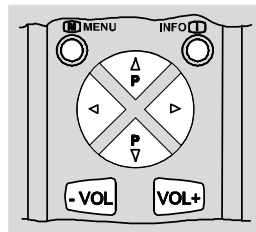
This menu is used to select the Menu Language, the Country name, the source of AV-2 OUTPUT (Ext2) and Back AV Out (optional).



### Selecting Menu Language

To select menu language:

- Press “(M) MENU” button so that you enter the main menu.
- In the main menu select **Installation** using “▲” or “▼” button.
- Open the installation menu pressing the “◀” or “▶” button. (To open the **Installation Menu** directly, do not enter the main menu but only press the BLUE button).



- In the installation menu select **TV Config.** using “▲” or “▼” button.
- Open the TV Config. menu using “◀” or “▶” button.
- In the **TV Config.** menu select **Language** and change the language to the one you desire, using “◀” or “▶” button. As soon as you change the language, the menu items will be displayed in the selected language.

### Selecting Country

- Press “(M) MENU” button so that you enter the main menu.
- In the main menu select **Installation** using “▲” or “▼” button.

- Open the installation menu pressing the “◀” or “▶” button. (To open the **Installation Menu** directly, do not enter the main menu but only press the BLUE button).
- In the installation menu select **TV Config.** using “⏪” or “⏩” button.
- Open the TV Config. menu using “◀” or “▶” button.
- In the TV Config. menu select **Country** using “⏪” or “⏩” button. Change the country pressing “◀” or “▶” button.

### Setting External Source Output

- You can use this menu to select the internal or external source that will be output at eurocart2 and also from Back AV Out simultaneously. To set AV-2 and Back AV Output:
- Press “**M** MENU” button so that you enter the main menu.
- In the main menu select **Installation** using “⏪” or “⏩” button.
- Open the installation menu pressing “◀” or “▶” button. (To open the **Installation Menu** directly, press the BLUE button).
- In the installation menu select **TV Config.** using “⏪” or “⏩” button.
- Open the TV Config. menu using “◀” or “▶” button.
- In the TV Config. menu select AV-2 Output using “⏪” or “⏩” button. Then select the source you want to be output at Ext2 or Back AV Out pressing “◀” or “▶” button (one of the sources: TV, AV-1 (Ext1), AV-2 (Ext2), FAV (Front AV)).

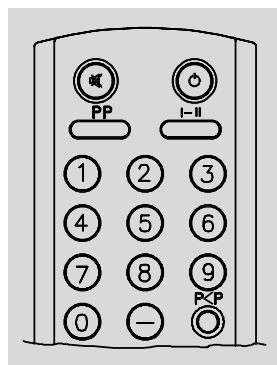
## Other Features

### Personal Preference

- When you press the “**PP**” button, the picture and sound settings will change to the last stored values.

### Programme Swapping

- Press “**P<P**” (**programme swap**) button to swap between the last selected two programmes. (e.g.: Select programme 12. Then select programme 5. Pressing the programme swap button, programme 12 will be selected. Pressing the same button once more, programme 5 will be selected again.)



### Sound Mute

To cut off the sound of the TV press “**MUTE**” button. The sound will be cut off. To cancel mute, press “**MUTE**” or “**-VOL**” or “**VOL+**” button. The volume level will be the same as the level before mute if you cancel mute pressing “**MUTE**” button again.

## Bilingual Broadcast

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- If the TV channel you are watching broadcasts in two languages (e.g. Eurosport), you can select the dubbed or the original language, pressing the **I-II** button.

## Information on Screen

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After the selection of a TV channel or after the selection of a programme from a peripheral, the following information will appear on your screen:

- The programme number and name of the selected TV channel.
- The currently selected mode (not with a programme coming from a peripheral or through a decoder).
- Dual I or Dual II in case of bilingual broadcast if your TV has stereo sound system.

Also "X" sound muted sign will be displayed when the sound is temporarily interrupted.

## TELETEXT

(This information only applies if your TV is equipped to receive TELETEXT)

Teletext is an information system that displays text on your TV screen. Using the Teletext information system you can view a page of information on a subject that is available in the list of contents (index).

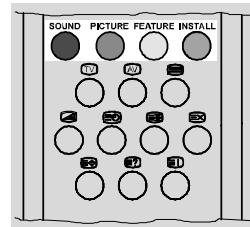
No on screen display will be available in text mode.

No contrast, brightness or colour control, but volume control is available in text mode.

## To operate Teletext

---

- Select a TV station on which Teletext is being transmitted.
- Press (TELETEXT) "☰" button. Usually the list of contents (index) is displayed on the screen.

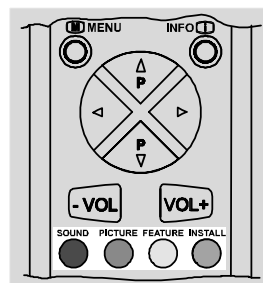




## To select a page of Teletext

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- Press the appropriate digit buttons for the required Teletext page number.


The selected page number is displayed at the top left corner of the screen. The Teletext page counter searches until the selected page number is located, so that the desired page is displayed on the screen.



- Press “” button to move the Teletext screen forward one page at a time.
- Press “” button to move the Teletext screen backward one page at a time.



## **To Select Index Page**

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- To select the page number of the index (generally page 100), press “” button.





## **To Select Teletext with a TV Programme**

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- Press “” button. The text is now superimposed over the programme on the screen.
- Press “” button again to return to the Teletext page.




## **Searching for a Channel while watching TV**

---

- In the Teletext mode pressing “” button will switch the screen to the TV mode. In the TV mode enter a page number using digit keys. As you enter last digit of page number, “” sign will replace the page number and flash until the entered page number is found. Then the page number will replace “” sign again. Now you can display this teletext page pressing “” button.



## **To Select Double Height Text**

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- Press “” button for the top half of the information page to be displayed in double height text.
- Press “” button again for the bottom half of the information page to be displayed in double height text.
- Press “” button once more for the full page of normal height text.

## **To Reveal “concealed” Information**



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- Pressing “” button once will reveal answers on a quiz or games page.
- Pressing “” button again will conceal the revealed answers.

## **To Stop Automatic Page Change**

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

The teletext page you have selected may contain more information than what is on the screen; the rest of the information will be displayed after a period of time.

- Press “” button to stop the automatic page change.
- Press “” button again to allow the next page to be displayed.

## **To Select a Subcode Page**

---


Subcode pages are subsections of long Teletext pages that can only be displayed on the screen one section at a time.

- Select the required Teletext page.
- Press “” button.
- Select the required subcode page number by pressing four digit buttons (e.g. 0001).
- If the selected subcode page is not displayed in a short time, press “” button. TV programme will be displayed on the screen.
- Teletext page number will be displayed on the upper left corner of the screen when the selected page is found.
- Press “” button to display the selected Teletext page.

## **Fastext**

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Your CTV supports the 7 page Teletext system. When the page number of any of the 7 pages in memory is entered, the system will not search for the requested page; instead it will display the page automatically.

- Press “” button to move the Teletext screen forward one page at a time.

- Press “**P**” button to move the Teletext screen backward one page at a time.

## For Fastext

The subject-heading for the information may have a particular colour.

- Press an appropriate **RED**, **GREEN**, **YELLOW** or **BLUE** button in order to reach the relevant page quickly.

## To exit Teletext

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- Press “**TV**” button. The screen will switch to TV mode.

## To Display the Time

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- While watching a TV programme with Teletext transmission press “**⌚**” button. The current time information, captured from Teletext will be displayed at the upper right corner of the screen.
- If the programme being watched does not have Teletext transmission, only a blue box will be displayed at the same location.
- The time information will disappear after pressing “**⌚**” button again.

When time information is displayed on screen, entering another menu will remove it, but after leaving that menu time information will appear again.

## Connect Peripheral Equipment

There is a wide range of audio and video equipment that can be connected to your TV.

The following connection diagrams show you where the different equipment should be connected at the back or the front side of the TV.

## Via the Euroconnector

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Your TV set has two Euroconnector sockets. If you want to connect peripherals (e.g. video, decoder, etc.) which have Euroconnectors, to your TV, use **EXT1** and **EXT2** inputs.

## RGB Mode

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If you are sending RGB input (i.e. via DVD etc.) to your euroconnector input, you can select the RGB mode by pressing **AV** button continuously.

## Via Ant Input

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If you want to connect to your TV, peripherals like video-recorders or decoders, but the device you want to connect does not have Euroconnector / RCA JACK, you should connect it to the ANT input of your TV set.

## Decoder

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Cable TV offers you a wide choice of programs. Most of them are free, others are to be paid for by the viewer. This means that you will need to subscribe to the broadcasting organisation whose programmes you wish to receive. This organisation will supply you a corresponding decoder unit to allow the programmes to be unscrambled.

For further information ask your dealer. See also the booklet supplied with your decoder.

### Connect a decoder with an aerial socket to the TV

- Connect the aerial cable.

### Connect a decoder without an aerial socket to the TV

- Connect the decoder to your TV with a eurocable to **EXT1** or **EXT2**. When your decoder has a Euroconnector you can obtain better picture quality if you connect a eurocable. Then select the appropriate AV mode by pressing the “**AV**” button.

## TV and Video Recorder

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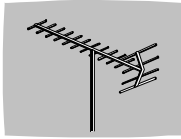
- Connect the aerial cables.

Better picture quality can be obtained if you also connect a eurocable.

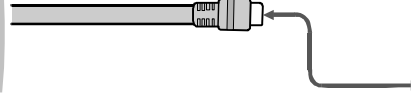
# Aerial Connections

## Outdoor Aerial Connections

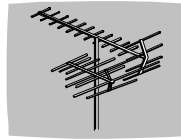
VHF/UHF aerial  
Method 1



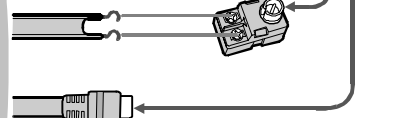
Round 75 ohm coaxial cable



VHF aerial  
Method 2



Flat 300-ohm twin lead cable



Round 75-ohm coaxial cable

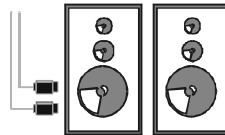


## Connect Peripheral Equipment

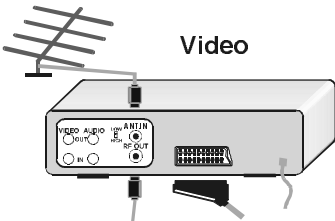
Headphone



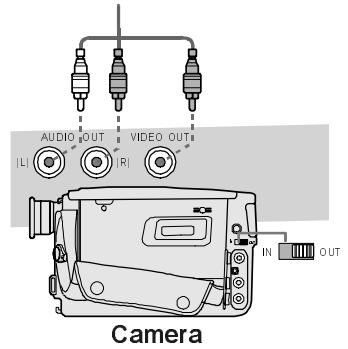
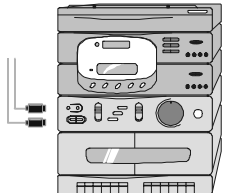
External Speaker



Video

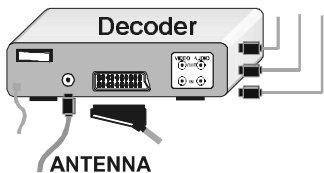


Audio

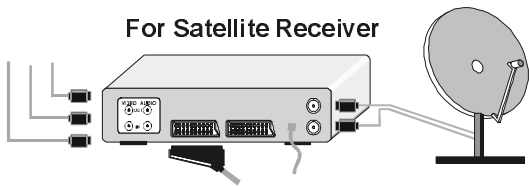


Camera

Decoder



For Satellite Receiver



## NTSC Playback

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Connect NTSC VCR player to Euroconnector / RCA Jack at the back / front of the TV.

Then, press “**AV**” button to select AV-1 or AV-2 or FAV or RGB modes.

**NTSC 3.58/4.43** system can be watched at this mode automatically.

## Copy Facility

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Source selection for VCR recording.

Select “**TV Config.**” Menu in the Installation Menu.

- Select “**AV2 OUTPUT**” Output source pressing “**<**” or “**>**” button.
- After selecting, you can copy the Audio and Video signals of the source you had selected, from AV-2 or Back AV Out, by using a VCR.

## Search for and store the test signal of the video recorder

- Unplug the aerial cable from the aerial socket “**ANT**” of your video recorder.
- Switch on your TV and put the video recorder on the test signal. (See the handbook for your video recorder.)
- Enter the Tuning menu via the Installation menu.
- Search for the test signal of your video recorder in the same way as you searched for and stored the TV signals. See Tuning, Search and Store TV channels. Store the test signal either under programme number 0 or between 55 and 99.
- Replace the aerial cable in the aerial socket “**ANT**” of your video recorder once you have stored the test signal.

## Camera and Camcorder

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### To connect to Front-AV input:

Connect your camera or camcorder at the front side of your TV.

- Connect your equipment to the TV via **VIDEO**, **AUDIO R** and **AUDIO L** inputs. You should connect the jacks to the input in the same colour.

### To connect to Back-AV output:

Connect your camera or camcorder at the back side of your TV.

- Connect your equipment to the TV via **VIDEO**, **AUDIO R** and **AUDIO L** inputs. You should connect the jacks to the input in the same colour.

## Connect the decoder to the video recorder

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Some video recorders have a special Euroconnector / RCA Jack for decoder.

- Connect a eurocable (RCA Jack Cable) to the Euroconnector / RCA Jack of your decoder and to the special Euroconnector / RCA Jack of your video recorder. See also the handbook of your video recorder.
- To connect your video recorder to the TV, see TV and Video Recorder section.

If you want to connect more equipment to your TV, consult your dealer.

## Connecting External Speakers

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Your TV set has two outputs (one for left and one for right speaker) to provide connection for external speakers. You can connect loudspeakers of minimum 8 ohms (12 watts) to these inputs.

When you connect external loudspeakers, the internal loudspeakers of your TV will be switched off automatically.

## Connecting Headphones

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Use the stereo headphone socket (HP) of your TV on the left side, to connect headphones.

### Tips

### Care of the Screen:

Clean the screen with a slightly damp, soft cloth. Do not use abrasive solvents as they may damage the TV screen coating layer.

### Poor Picture:

Have you selected the correct TV system? Is your TV set or house aerial located too close to the loudspeakers, non-earthed audio equipment or neon lights, etc. ?



Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.

The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

### No Picture:

Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer.

**No Picture** means that your TV is not receiving any transmission. Have you pressed the correct keys on the remote control? Try once more.

### Sound:

Sound is coming from only one of the speakers. Is the balance set to one direction extreme? See **SOUND** menu.

### Remote Control:

Your TV no longer responds to the remote control. Press the "TV" button on the remote control once more. Perhaps the batteries are exhausted. If so you can still use the local keys at the front of your TV.

Have you selected the wrong menu? Press "TV" key to return to TV mode or press "MENU" to return to the previous menu.

### No solution:

Switch your TV set off and on. If this does not work, call the service personnel; never attempt to repair it yourself.

## Specifications

### TV BROADCASTING

PAL SECAM B/G I/I'

### RECEIVING CHANNELS

VHF (BAND I/III)

UHF (BAND U)

HYPERBAND

CABLE TV

**NUMBER OF PRESET CHANNELS** 100

### CHANNEL INDICATOR

On Screen Display

### RF AERIAL INPUT

75 Ohm (unbalanced)

### OPERATING VOLTAGE

230-240V AC, 50 Hz.

### AUDIO OUTPUT

3D PANORAMA

### AUDIO OUTPUT POWER ( $W_{RMS}$ ) (%10 THD)

2 x 12

### POWER CONSUMPTION (W) (max.)

150

### PICTURE TUBE

28" 16:9

### DIMENSIONS (mm)

D	L	H	Weight (kg)
491	786	509	41