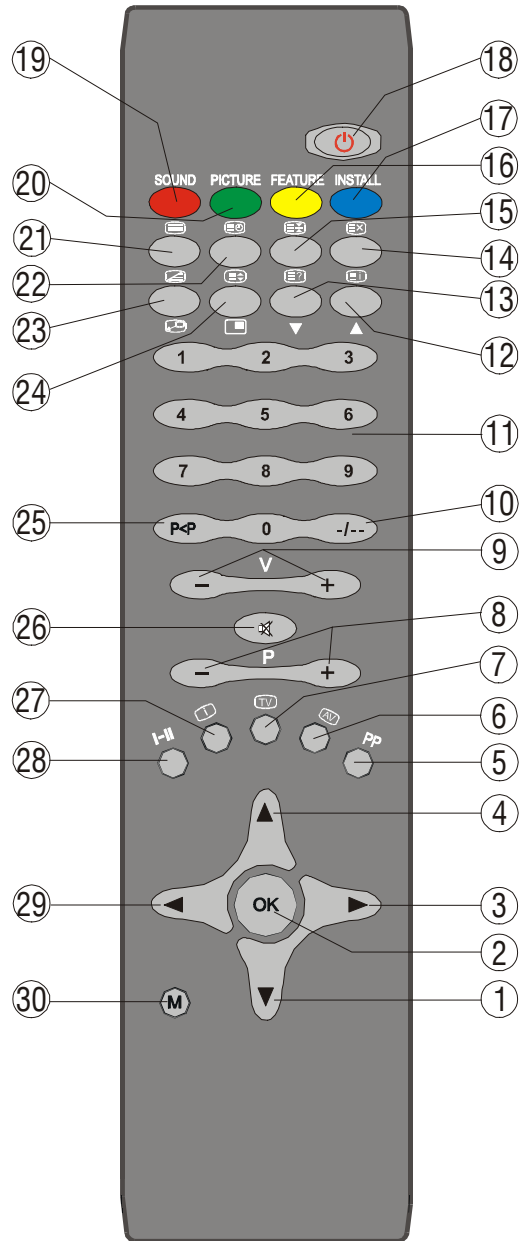


## Contents

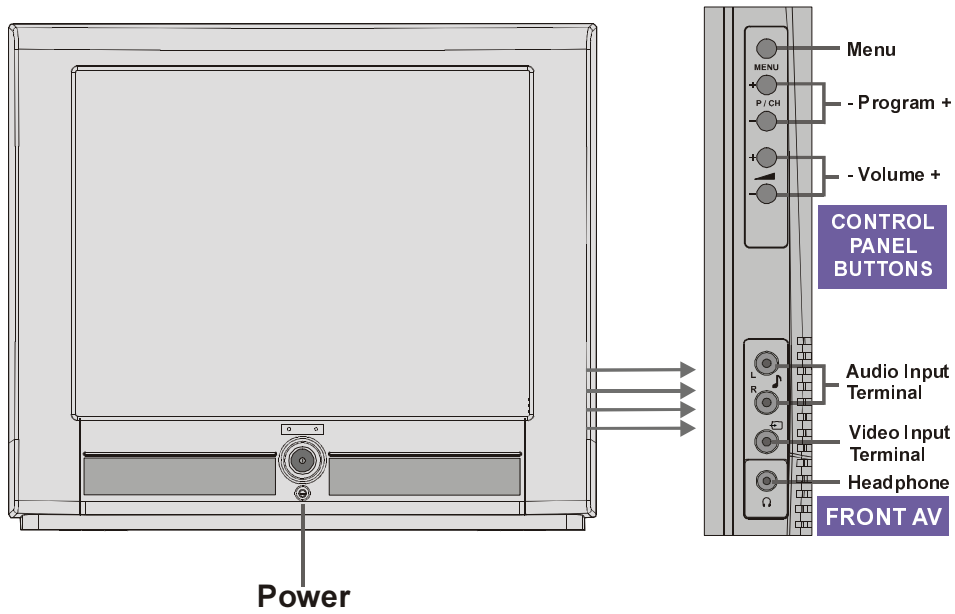
<b>Remote Control Buttons .....</b>	<b>2</b>	<b>Teletext .....</b>	<b>18</b>
<b>Control Panel Buttons .....</b>	<b>3</b>	To operate Teletext .....	18
<b>Antenna Connections .....</b>	<b>3</b>	To select a page of Teletext .....	18
<b>Preparation .....</b>	<b>4</b>	To Select Index Page .....	18
<b>Safety Precautions .....</b>	<b>4</b>	To Select Teletext with a TV Programme .....	18
<b>Before Switching on your TV .....</b>	<b>6</b>	Searching for a page while watching TV .....	18
Power connection .....	6	To Select Double Height Text .....	18
Connections to the RF input socket ....	6	To Reveal "concealed" Information ....	18
How to connect other devices .....	6	To Stop Automatic Page Change .....	19
Inserting batteries in the remote control handset .....	6	To Select a Subcode Page .....	19
<b>Switching the TV ON/OFF .....</b>	<b>6</b>	Fastext (optional) .....	19
To switch the TV on .....	6	To exit Teletext .....	19
To switch the TV off .....	6	To Display the Time .....	19
<b>Operating the TV .....</b>	<b>7</b>	<b>Connect Peripheral Equipment .....</b>	<b>20</b>
A.P.S. (optional)		Via the Euroconnector .....	20
(Automatic Programming System) .....	7	Via Ant Input .....	20
Operating with the buttons on the TV set .....	7	Decoder .....	20
Operating with Remote Control .....	7	TV and Video Recorder .....	20
<b>Menu System .....</b>	<b>8</b>	Playback NTSC (Optional) .....	20
Sound Menu .....	8	Copy Facility (Optional) .....	20
Picture Menu .....	11	Search for and store the test signal of the video recorder .....	20
Feature Menu .....	13	Camera and Camcorder .....	21
Install Menu .....	14	To connect to Front-AV input (FAV) (optional): .....	21
Programme Menu .....	15	To connect to Back-AV (BAV) input / output (optional): .....	21
<b>Other Features .....</b>	<b>16</b>	To connect to S-VHS input (optional): .....	21
TV Status .....	16	Connect the decoder to the video recorder .....	21
Programme Swap (P<P) .....	16	Connecting Headphones (Optional) .	21
Double-digit (- / - -) .....	16	Connecting External Speakers (optional) .....	21
Personal Preferences (PP) .....	16	<b>Connect Peripheral Equipment .....</b>	<b>22</b>
Sound Indicator (optional) .....	16	<b>Tips .....</b>	<b>23</b>
Picture Mode .....	17	Care of the Screen .....	23
Sleep Timer Last Minute Indicator ....	17	Poor Picture .....	23
Mute Indicator .....	17	No Picture .....	23
No-Signal .....	17	Sound .....	23
Blue Background During No-Signal ..	17	Remote Control .....	23
Volume Bar .....	17	No solution: .....	23
AV Modes (optional) .....	17	<b>Specifications .....</b>	<b>24</b>

## Remote Control Buttons

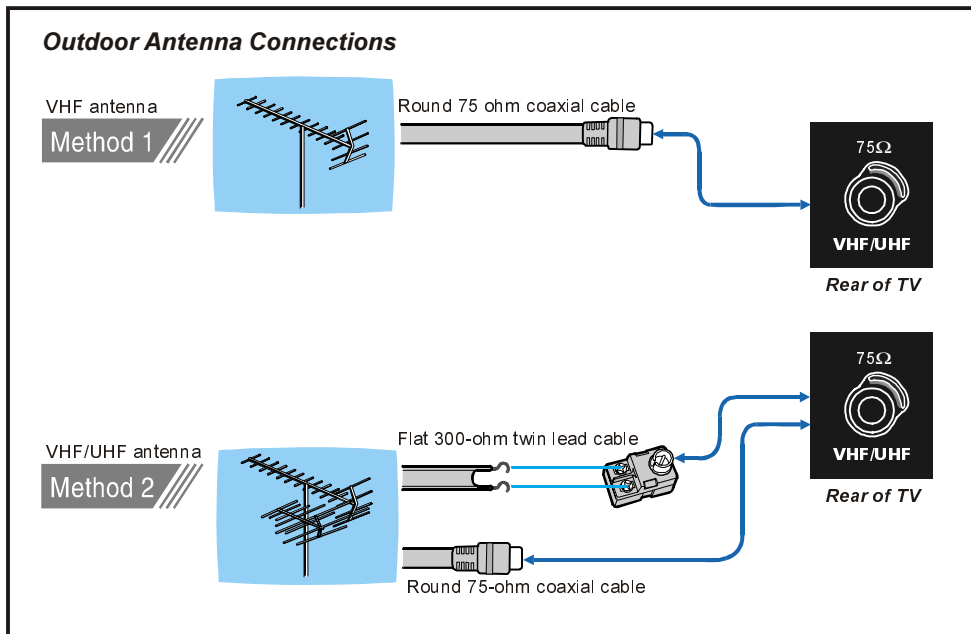
- ① ▽ = Cursor Down
- ② OK = OK (No Function)
- ③ ▷ = Cursor Right
- ④ △ = Cursor Up
- ⑤ PP = Personal Preferences
- ⑥ AV = External Source (optional)  
(AV-1, AV-2, F-AV / B-AV, RGB, S-VHS)
- ⑦ TV = TV / Quit Menu
- ⑧ P +/- = Programme Up / Down
- ⑨ V +/- = Volume Up / Down
- ⑩ -/- = Double Digit
- ⑪ 0 - 9 = Direct Program
- ⑫ i = Index Page
- ⑬ ? = Reveal
- ⑭ X = Update
- ⑮ H = Hold
- ⑯ Yellow (FEATURE) = Feature Menu
- ⑰ Blue (INSTALL) = Installation Menu
- ⑱ Red (SOUND) = Sound Menu
- ⑳ Green (PICTURE) = Picture Menu
- ㉑ = Teletext
- ㉒ = Time
- ㉓ = Mix
- ㉔ = Expand
- ㉕ P<P = Previous Programme
- ㉖ M = Mute
- ㉗ i = Info (Program Menu)
- ㉘ I-II = Mono/Stereo - Dual I-II (optional)
- ㉙ < = Cursor Left
- ㉚ M = Menu
- PIP BUTTONS (No Function)**
- ⑫ PIP ▲ = No Function
- ⑬ PIP ▼ = No Function
- ⑮ PIP □ = No Function
- ⑰ PIP □ = No Function



## Control Panel Buttons



## Antenna Connections



## Preparation

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.

## Safety Precautions

### 1. Power Source

The receiver should be operated only from a **220-240V 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 it is not likely to be walked on or pinched by items placed upon them or against it. Pay particular attention to cord where it enters the plug, power outlet, and the point where it exits 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, as this may be dangerous and do not place objects filled with liquids on top. Avoid from dripping or splashing.

### 4. Cleaning

Before cleaning, unplug the receiver from the main supply, outlet. Do not use liquid or aerosol cleaners. Use 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. Unauthorised 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.

### 10. Naked Flame Sources

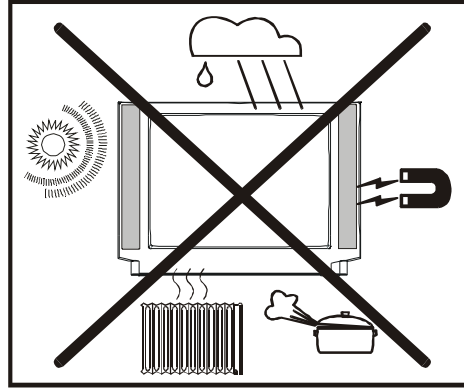
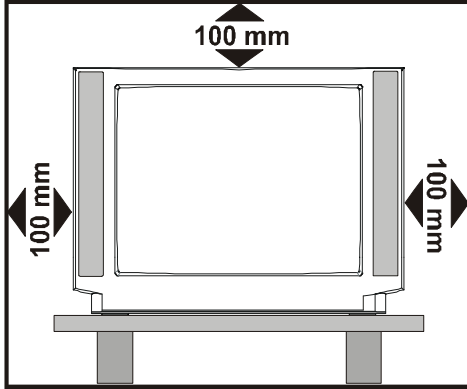
Do not place naked flame sources on the apparatus.

#### **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.*



## 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.

**"DO NOT LEAVE YOUR TV AT STAND-BY OR OPERATING WHEN YOU LEAVE YOUR HOUSE"**

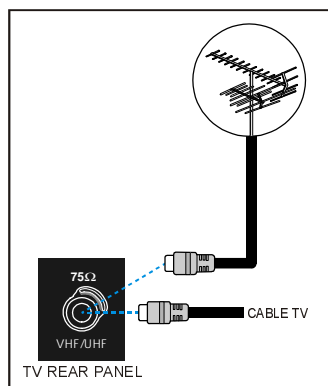
## Before Switching on your TV

### Power connection

**IMPORTANT:** The TV set is designed to operate on **220-240V AC, 50 Hz.**

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

### Connections to the RF input socket



- Connect the aerial or cable TV plug to the RF input socket located at the back of the TV and connect the cable plug coming out from the TV out socket located at the devices (VCR, DVB etc.) to this socket as well.

### How to connect other devices

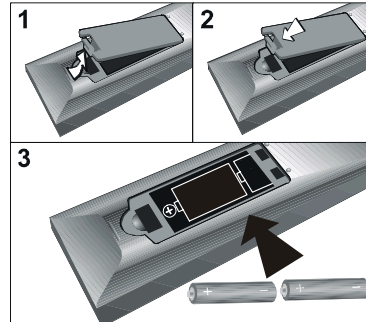
**IMPORTANT:** Switch off the TV before connecting any external device.

Sockets for external connections are at the back and front of the TV (optional). For connection of other devices via Euroconnector refer to the manuals of the related devices.

### Inserting batteries in the remote control handset

- Place the batteries in the right directions as seen below.
- Remove the battery cover located on the back of the handset by gently pulling upwards from the indicated part.

- Insert two **UM-4 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

### 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 LED located below becomes **BLUE**.

- 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 or Down buttons on the front of the TV or on the remote control, so that last switched off programme is selected.

By either ways the TV will switch on and the LED will turn off.

### 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 LED will become Blue,

or,

Press the power button located on the front of the TV, so the TV will switch off.

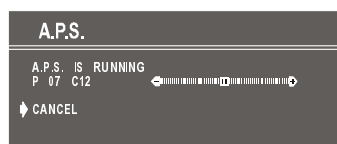
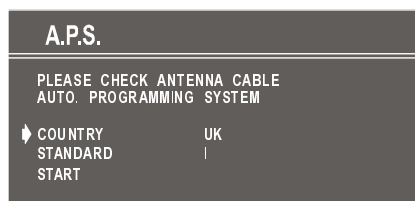
## Operating the TV

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

### A.P.S. (optional) (Automatic Programming System)

"PLEASE, CHECK ANTENNA CABLE. AUTO PROGRAMMING SYSTEM" message will be displayed when you turn on your TV for the first time. APS, searches and sorts all channels and stores them automatically on your TV, according to the transmission of programme systems in your area.

To cancel APS before starting, press "TV" button. This will effect the sort process in APS. To select "START" use "▽" or "△" button and press "◀" or "▶" button. Your TV will no tune in all available channels. Please be patient, this may take a few minutes.



After APS is finalized, a programme list will appear on the screen. In the programme list you will see the programme numbers and names assigned to the programmes.

If you do not accept the locations and / or the programme names, you can change them in Programme menu.

### Operating with the buttons on the TV set

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

### Volume Setting

- Press " - ◀ " button to decrease volume or " ◀ + " button to increase volume, so a volume level scale (slider) will be displayed at the middle of the bottom on the screen.
- By pressing both the " ◀ + " and " - ◀ " buttons at the same time you can enter Main menu.

### Programme Selecting

- Press "P/CH+" button to select the next programme or "-P/CH" button to select the previous programme.

### Entering Main Menu (optional)

- Press "MENU" button to enter Main menu. In the Main menu select sub-menu using "-P/CH" or "P/CH+" button and enter the sub-menu using " - ◀ " or " ◀ + " button. To learn the usage of the menus, refer to the Menu System section.

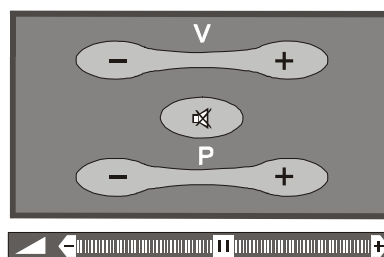
### Operating with Remote Control

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 of the menu system are described in Menu System section.

### Volume Setting

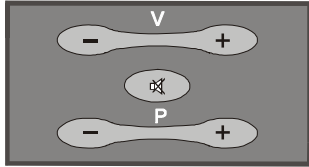
Press "V+" button to increase volume. Press "-V" button to decrease volume. A volume level scale (slider) will be displayed at the middle of the bottom on the screen.



### Programme Selecting

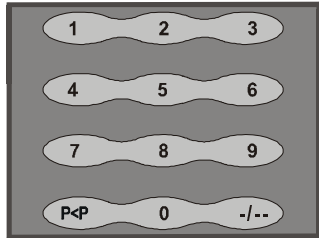
(Previous or next programme)

- 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. TV will switch to the selected programme. To select programmes between 10 - 99, you must use the double digit button "- /-".



**P - -** this OSD is displayed at the left hand upper on the screen.

After then, press the digit buttons consecutively which programme you want to select (eg. for programme 27, first press 2 and then 7). When it is late to press any digit button this function will be ignored and the display will be erased. In the same way it must not be late to press any digit button after entering the first digit. The limit of the delay time is 3 seconds.

Press directly the programme number to reselect single digit programmes.

#### Programme Swapping

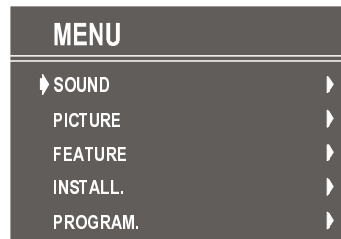
- Press "P<P" (programme swap) button to select the last selected programme. This button provides swapping between last two selected programmes. For example, select programme 8, then select programme 2. Now, if you press "P<P" button, programme 8 will be selected. If you press the same button again, 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 multi-function system. The TV is controlled by choosing the commands, which are displayed on the screen.

Press the "M" button. The Main menu will be displayed at the middle on the screen.

All the selected items in this menu system is indicated with **CYAN** characters and with an arrow on the leftside of items.



To select a sub-menu use "▽" or "△" button, and press "◀" or "▶" button. Each option can also be selected with the coloured button and "i" button on the remote control.

### MAIN MENU

The menu system is described below.

The short way in order to enter the menus, press :

- |                |                 |
|----------------|-----------------|
| "M" Button,    | Main Menu.      |
| Red Button,    | Sound Menu.     |
| Green Button,  | Picture Menu.   |
| Yellow Button, | Feature Menu.   |
| Blue Button,   | Install Menu.   |
| "i" Button,    | Programme Menu. |

Menu button has two functions; first is opening or closing the "MAIN MENU", and the second is closing the sub-menu and then opening its parent menu.

### Sound Menu

#### To change sound settings

- Enter the Sound Menu directly, pressing the Red button or,



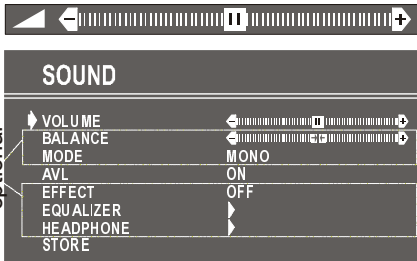
- As you enter the main menu, sound will be the first selected option. In the main menu, select **SOUND** using “▽” or “△” button, then enter the sound menu pressing “◀” or “▶” button.

#### Setting Volume:

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

- Press “▶” button to increase volume.
- Press “◀” button to decrease volume.

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



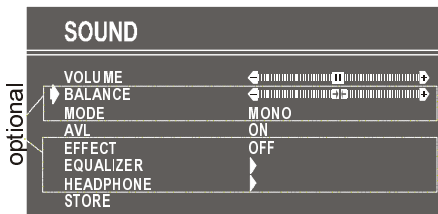
#### Setting Balance

(If your TV has stereo sound system)

It allows adjusting the distribution between the left and right speakers.

- Using “▽” or “△” button select Balance.
- Press “▶” button to change balance rightward.
- Press “◀” button to change balance leftward.

When balance control is in mid position, the cursor is displayed with the two reciprocal arrows.



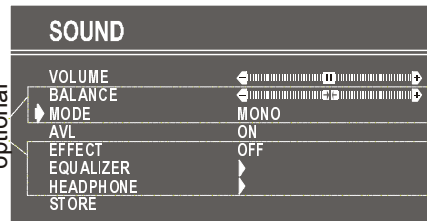
#### Selecting Mode

(If your TV has stereo sound system)

- Using “▽” or “△” button select Mode.
- Press “◀” or “▶” button to change Mode.

You can choose **MONO**, **STEREO** or **DUAL (I-II)** mode, only if the selected channel supports that mode.

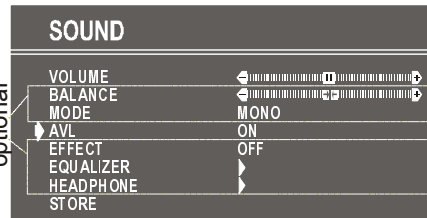
You can also change sound mode directly pressing “I-II” button on your remote control.



In case of bilingual broadcast (Dual Sound), you can select original or dubbed language using mode option.

#### Setting AVL

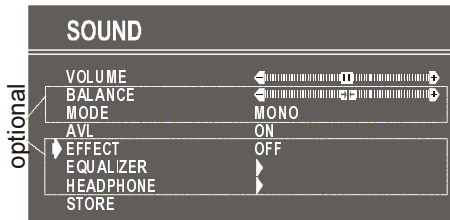
Automatic Volume Limiting (AVL) function normalises sound to obtain fixed output level between programs, having different sound levels. Pressing “◀” or “▶” button will turn on and off this feature.



#### Setting Effect

(If your TV has stereo sound system)

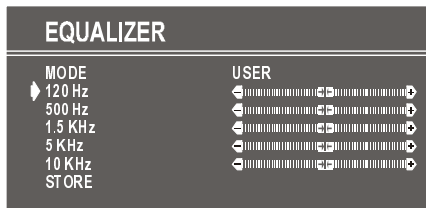
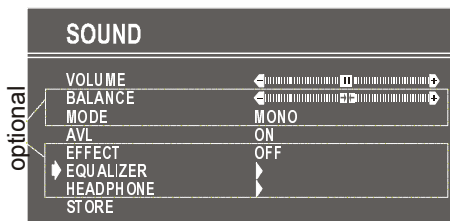
You can use this feature to switch the sound effect on and off. Pressing “◀” or “▶” button will turn on and off this feature. If the current sound system is **MONO** and the sound effect is set **ON**, then the sound will be heard as if it is **STEREO**. If the current sound system is **STEREO**, switching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



### Equalizer

(If your TV has stereo sound system)

To enter Equalizer sub-menu, select Equalizer using “▽” or “△” button, then enter Equalizer menu pressing “◀” or “▶” button.



In MODE item there are five predefined and one user defined options. These are USER, CLASSIC, JAZZ, ROCK, POP and FLAT. The predefined options can not be changed by the user. If you change one of the frequency values of the predefined options, the MODE is switched automatically to USER option. The USER option may be adjusted by the user.

The 5 items below the MODE are available to adjust the sound settings in 5 frequency values: 120 Hz, 500 Hz, 1.5 kHz, 5 kHz and 10 kHz. To change the values of 5 frequency options, select one of the options by “▽” or “△” button, and then press “▶” to increase the value, or “◀” to decrease the value. In mid position, cursor is displayed with the two reciprocal arrows.

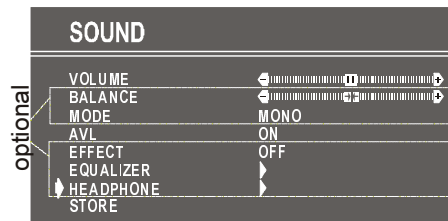
To store the Equalizer settings, press “◀” or “▶” button on “STORE” option.

During the store process all the items are stored, moreover, the USER mode information would not be lost. In other words, when the user mode is selected again, after storing the MODE with one of the predefined options, the user define frequency values would be set.

### To Change Headphone Sound Settings

(If your TV has stereo sound system) (optional)

Pressing “◀” or “▶” button on HEADPHONE, enter the Headphone menu. This is a sub-menu of Sound menu, and all options in this menu are working as the same in the Sound menu.



### Setting Headphone Volume

(If your TV has stereo sound system)

- As you enter the Headphone sound menu, Volume will be the first selected option.
- Press “▶” button to increase volume.
- Press “◀” button to decrease volume.



### Setting Headphone Balance

(If your TV has stereo sound system)

- When balance control is in mid position, the cursor is displayed with the two reciprocal arrows.
- Using “▽” or “△” button select Balance.

- Press “▷” button to change balance rightwards.
- Press “◁” button to change balance leftwards.

### Setting Headphone Mode

(If your TV has stereo sound system)

- Using “▽” or “△” button select Mode.

Pressing “◁” or “▷” button will change the current sound mode. (e.g.: If the current sound mode is stereo, it will be stereo or visa versa).

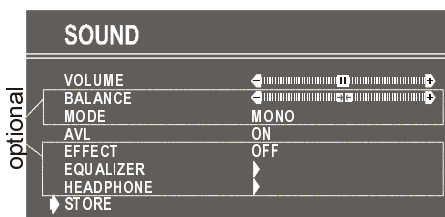
In case of bilingual broadcast, you can select original or dubbed language again using mode menu. So when somebody listens to the original language from the loudspeakers, somebody else can listen to the dubbed language from headphone.

### To Store the Settings

- Using “▽” or “△” button select Store. Press “◁” or “▷” button to store current headphone volume and balance. The stored values will be valid for all the programmes.

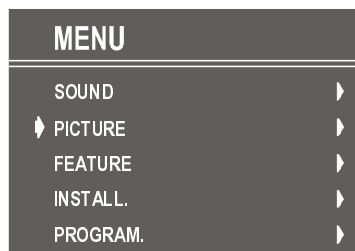
### To Store the Settings

- Press “◁” or “▷” button on “STORE” option to store Sound menu settings.



### Picture Menu

- To enter the Picture menu directly, press the “GREEN” button, or
- Press “M” button, now you are in Main menu. In the Main menu, select “PICTURE” using “▽” or “△” button, then enter the Picture menu pressing “◁” or “▷” button.



### Setting Brightness

- As you enter the picture menu, Brightness will be the first selected option.
- Press “▷” button to increase brightness.
- Press “◁” button to decrease brightness.



### Setting Contrast

- Using “▽” or “△” button select Contrast.
- Press “▷” button to increase contrast level.
- Press “◁” button to decrease contrast level.



### Setting Colour

- Using “▽” or “△” button select Colour.
- Press “▷” button to increase colour level.
- Press “◁” button to decrease colour level.



### Setting Sharpness

- Using “▽” or “△” button select Sharpness.
- Press “▷” button to increase peaking level.
- Press “◁” button to decrease peaking level.



### Setting Hue

(During Playback NTSC system, this will appear in AV mode only when NTSC video source is applied. Otherwise, HUE option is invisible in Picture menu.): (optional)

- Using “▽” or “△” button select Hue.
- Press “▷” button to increase hue level.
- Press “◁” button to decrease hue level.

Center value is indicated with the two reciprocal arrows.



### Mode

This item is used to change the picture size. By pressing “◁” or “▷” button you may choose one of these options: “4:3”, “16:9”, “14:9”(optional), “Cinema”(optional), “Subtitle” (optional) and “AUTO”. It is also possible to change picture modes directly by pressing button “EX” on your remote control.

- **4:3** This option forces the picture ratio to 4:3 mode.
- **16:9** This option forces the picture ratio to 16:9 mode.
- **14:9 (optional)** This option forces the picture ratio to 14:9 mode.

- **Cinema (optional)** This option forces the picture ratio to Cinema mode.
- **Subtitle (optional)** This option forces the picture ratio to Subtitle mode.
- **AUTO** This allows to change the picture mode automatically, according to the transmission of the selected channel. For example, your TV is 4:3 mode, but the transmission of that channel is in 16:9 mode. If you select the AUTO mode, the TV is switched to 16:9 mode automatically. If the TV is in 4:3 mode and the picture ratio of the channel is also 4:3, there will be no affect selecting the picture mode to AUTO mode.

WSS feature is only used in TV and FAV / BAV modes. For the Picture Mode selection in AV1 and AV2 the pin 8 (of Scart) value is used. In RGB and S-VHS modes the Picture Mode can be 4:3, 16:9, 14:9 (optional), Cinema (optional), Subtitle (optional). (Auto mode is not available.).

When the menu appears on screen, picture mode will automatically change to its default tube mode (4:3 or 16:9) but it will turned to its stored mode when the menu disappears.



### To Store the Settings

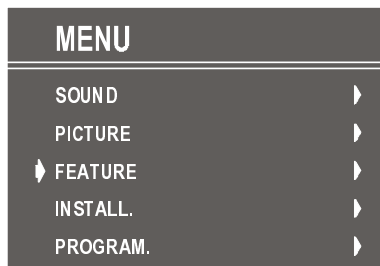
- Press “◁” or “▷” button on **STORE** option to store Picture menu settings.

The stored picture mode setting will be valid only in current program. However, the other stored values in Picture Menu will be valid for all the programmes.



## Feature Menu

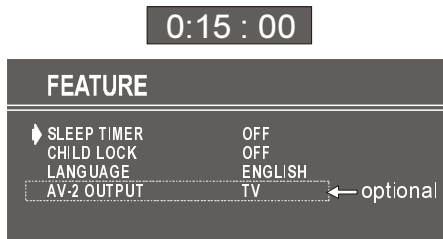
- To enter the Feature menu directly, press the "YELLOW" button, or
- Press "M" button, now you are in Main menu. In the Main menu, select **FEATURE** using "▽" or "△" button. Then enter the Feature menu pressing "◀" or "▶" button.



### Sleep Timer

As you enter the Feature menu, **SLEEP TIMER** will be the first selected option. Use "◀" or "▶" button to change the Sleep Timer values between **OFF, 0:15:00, 0:30:00, 0:45:00, 1:00:00, 1:15:00, 1:30:00, 1:45:00 and 2:00:00.**

It is displayed on the upper right of the screen. If sleep timer is activated it is displayed with the TV status and erased with it after 3 seconds.

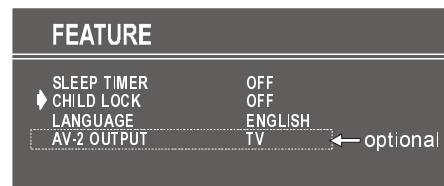


If there is left only one minute of the down counting of the timer, it is displayed automatically on the upper right of the screen, and stayed there until finishing. Then TV goes automatically to stand-by.

### Child Lock

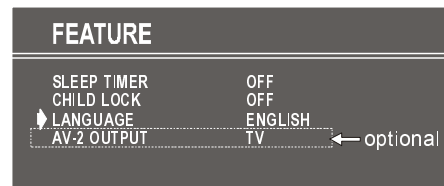
You can use this feature to prevent children turning on TV or changing programs or adjustments etc. without remote control.

The **CHILD LOCK** feature can be set by "◀" or "▶" button 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.



### Selecting Menu Language

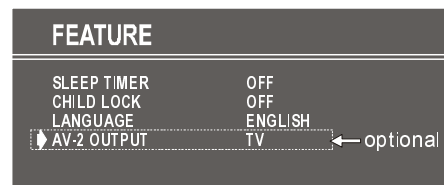
Menu language can be chosen by pressing "◀" or "▶" button on **LANGUAGE** item.



### AV-2 OUTPUT (optional)

(It is valid only in stereo option.)

From AV-2 Output, either TV or AV-1 can be given. TV or AV-1 can be chosen by pressing "◀" or "▶" button on "AV-2 OUTPUT".

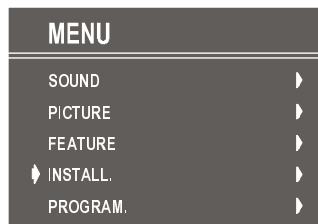


### To Store Settings

In Feature menu all settings are stored automatically.

## Install Menu

- To enter the Install menu directly, press the **BLUE** button, or
- Press "**M**" button, now you are in Main menu. In the Main menu, select "**INSTALL.**" Using "**▽**" or "**△**" button. Then enter the Install menu pressing "**<**" or "**>**" button.



### Selecting Programme

To select programme number, you can use "**<**" or "**>**" button, Digit Buttons or The Double Digit button with digit buttons.

### Selecting Band

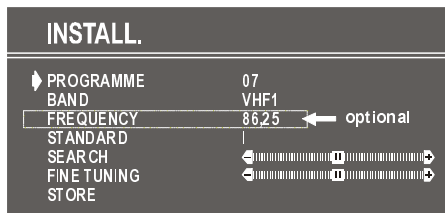
BAND, can be chosen either,

- VHF1, VHF3 or UHF (in Frequency option) by "**<**" or "**>**" button.
- "C" or "S" (in Channel option).

### Selecting Frequency (optional)

The frequency value is,

- 044 - 890 MHz for band VHF1 - VHF3 - UHF.



FREQUENCY can be changed by "**<**" or "**>**" button, by the Digit buttons or by the Double Digit button with digit buttons.

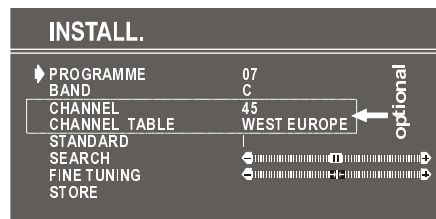
The decimal value in frequency can not be changed by the digit buttons, it can be changed only by the "**<**" or "**>**" button. The value can be "00", "25", "50" and "75". Also changing Fine Tuning changes the decimal part.

## Standard

The "Standard" setting is fixed to "I". You cannot change this item's setting.

### Selecting Channel (optional)

CHANNEL can be changed by "**<**" or "**>**" button, by Digit Buttons or by the Double Digit button with digit buttons.



### For band C,

01 - 83, WEST EUROPE.

01 - 12, 21 - 69, EAST EUROPE .

01 - 17, 21 - 73, UK.

01 - 76, FRANCE.

04 - 09, FRANCE 2.

### For band S,

01 - 41, for all channel tables.

### Selecting Channel Table (optional)

CHANNEL TABLE is valid only for Channel option, and can be either,

**WEST EUROPE**

**EAST EUROPE**

**UK**

**FRANCE**

**FRANCE 2**

by using "**<**" or "**>**" button.

### Selecting Standard (optional)

Using "**<**" or "**>**" button on **STANDARD**, you can change the standard to **B/G, D/K, I/I', L/L'**.

### Selecting Search

To start the search process, press "**>**" button for forward search or "**<**" button for backward search. **SEARCH** item blinks during search process, since the process is stopped or signal is found. During search

process the semi-transparent menu background becomes "BLUE". To stop the search process "◀" or "▶" button must be pressed again.

### Selecting Fine Tuning

You can use the Fine Tuning process for fine adjustment (after coarse adjustment), if you are not happy about the image on the screen.

Use "◀" or "▶" button on **FINE TUNING** item, until getting the best image on the screen.

In Channel option, normally the Fine Tuning cursor is placed at the middle on the slider, and this is indicated with the two reciprocal arrows.

### To Store Settings

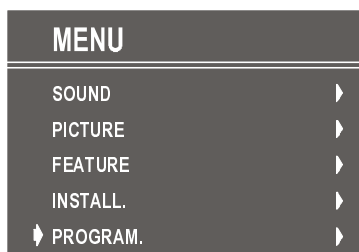
Press "◀" or "▶" button on **STORE** option to store Install menu settings.

### Programme Menu

When your TV is tuned in for the first time using the APS tuning system (see page 7) the programme menu will automatically appear on the TV screen.

This menu list all of the TV programmes that have been found during the tuning process. You may choose to relocate these programmes to different positions or to rename or delete them so that for example BBC1 is allocated to position1, BBC2 to position 2 and so on...

**NOTE:** If the programme menu is not on your TV screen access it by pressing the "M" button to open the main menu. Press "▽" button to highlight programme and "▶" to select.



Whilst in the programme menu

PROGRAM.		
01 C-12	11 ----	21 ----
02 C-23	12 ----	22 ----
03 C-45	13 ----	23 ----
04 C-47	14 ----	24 ----
05 C-50	15 ----	25 ----
06 C-55	16 ----	26 ----
07 ----	17 ----	27 ----
08 ----	18 ----	28 ----
09 ----	19 ----	29 ----
10 ----	20 ----	30 ----

NAME	DELETE
INSERT	AUTOSTORE

- 1) Use the "▽" / "△" navigation buttons to highlight the programme you want to move.
- 2) Press the insert button (GREEN) button.
- 3) Press the "▽" / "△" buttons to highlight the position in which you want to place your chosen programme.
- 4) Press the insert (GREEN) button again to relocate your programme.
- 5) Repeat steps 1-4 to complete your programme list.
- 6) Press "M" (Menu) button twice to exit screen.

### Changing Programme Name

In the programme menu

- 1) Press "▽" / "△" buttons to highlight the programme name you want to change.
- 2) Press 'NAME' (RED) button. The programme name will now be highlighted in red.
- 3) Use the "◀" / "▶" buttons to scroll across the name, and the "▽" / "△" buttons to change each character highlighted.
- 4) Press 'STORE' (RED) button to confirm the new name.

### Deleting a Programme

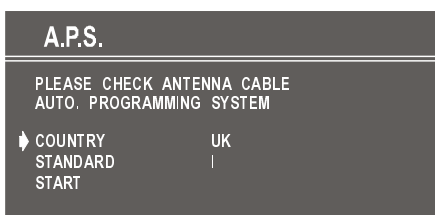
In the programme menu

- 1) Press "▽" / "△" buttons to highlight the programme you want to delete.
- 2) Press 'DELETE' (YELLOW) button to highlight and press (YELLOW) button once more to confirm deletion. The programme will now be deleted from the menu.

## Autostore

If at any time you wish to re-tune your TV e.g. if you move house to a new reception area, press the 'Autostore' (BLUE) button from within the programme menu.

The APS (Automatic Programming System) menu will appear.



Follow the instructions on page 7 to tune in your TV.

## Other Features

### TV Status

**Programme Number, Programme Name (or AV)**, (they are displayed on the upper left of the screen) and **Sleep Timer** (shows the time left on the upper right screen if enabled). In stereo options the sound indicator is displayed with them too. They are displayed after programme change during 3 seconds.

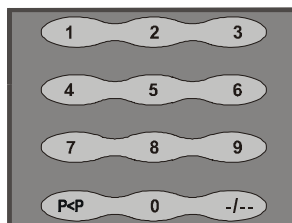
**P 01** Programme Number

**PR-01** Programme Name (5 characters)

These OSD's are displayed when a new programme is entered by digit button, by pressing "P<P" button, or by "P+" or "P-" button, or by "TV" button.

### Programme Swap (P<P)

This button is used to reenter to the preceding entered programme again. Pressing "P<P" consecutively allows to swap into two last entered programmes.



### Double-digit (- / - -)

This OSD is displayed when the "Double-Digit" button pressed in place of the programme number indicator.

**P - -**

After then, in order to enter a programme it must be pressed to two digit consecutively. When it is late to press any digit button this function will be ignored and the display will be erased. In the same way it must not be late to press any digit button after entering the first digit. The limit of the delay time is 3 seconds.

### Personal Preferences (PP)

All the preset values will be restored, when pressing "PP".

**PP**

### Sound Indicator (optional)

This is a stereo option. The alternatives of the indicator are Mono, Stereo, Dual I and Dual II. This indicator is displayed under the programme number indicator on the screen. "I-II" button is used to select Mono or Stereo, or Dual I or Dual II.

In Mono broadcast or in forced-mono (for stereo broadcast).

**MONO**

In Stereo broadcast.

**STEREO**

If dual broadcast detected. Dual I is selected in default and also can be selected after Dual II by Remote Control.

**DUAL I**

If Dual II selected by Remote Control.

**DUAL II**



## Picture Mode

The picture mode OSD is displayed below the sound indicator, by TV Status OSD's. According to the WSS data, inside of the OSD box "4:3" or "16:9" or "14:9" (optional) or "Cinema" (optional) or "Subtitle" (optional) or "Auto" is written.

By pressing "⏏" (TXT\_UPDATE) button (if Teletext is not active) the picture mode can be switched into 4:3, 16:9, 14:9 (optional), Cinema (optional), Subtitle (optional) or Auto Mode.

4:3

## Sleep Timer Last Minute Indicator

It is displayed on the upper right of the screen. If sleep timer is activated it is displayed with the TV status and erased with it after 3 seconds.

If there is left only one minute of the down counting of the timer, it is displayed automatically on the upper left of the screen, and stayed there until finishing. Then TV goes automatically to stand-by.

0:15 : 00

## Mute Indicator

It is placed in the upper middle of the screen when enabled, and it stays there until it is disabled.



To cancel mute, there is two alternative; the first one is pressing to "⏏" button, thus volume is set to the preceding value, and the second one is increasing the volume level, thus it starts at the minimum level to increase. By decreasing the volume level in mute state, mute will not be ignored, only the volume level will decrease. If mute canceled after decreasing the volume level, the volume will valid with the decreased level.

## No-Signal

### No-Signal Timer Indicator

It is displayed in the middle of the screen when no valid signal detected. It shows the remained time for the switching to the

Stand-By mode (it takes 5 minutes when any signal detected or no any Remote Control command is accessed). The indicator is displayed in 3 seconds when there is no valid signal.

After an Remote Control command (if No-Signal Timer is active) the timer stops and if no signal detected again the timer is initialized to 5 minutes and starts 3 seconds later again to count down.

It is not valid in AV mode.

05 : 00

## Blue Background During No-Signal

In case, no valid signal is detected (in TV(optional) or AV mode) Blue Background is activated. During search process Blue Background is not active. But instead of it there is another feature given; the semi-transparent menu background is made blue.

## Volume Bar

It is displayed in the lower middle of the screen. When a volume command is received (pressing "V+" or "V-" by Remote Control or Front panel) and no menu is active, it stays on the screen for 3 seconds, after the last volume command or until another command is received in between.



## AV Modes (optional)

By pressing the "AV" button you can switch your TV to AV modes (except being in Teletext). Pressing this button will consecutively switch the TV in one of the optional AV modes: AV1, AV2, RGB, SVHS or FAV / BAV (Front AV / Back AV). AV1 supports the RGB mode and AV2 supports SVHS mode unless there is an SVHS socket. If your TV has SVHS socket, you have to use this socket for SVHS input.

In order to quit the AV mode press the "TV", digit buttons or P+ / P- .


## Teletext

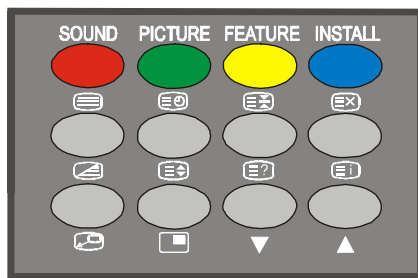
Teletext is an information system that displays text on your TV screen. Using the Teletext information system you can view a page of information on a subject that is available in the list of contents (index).

On screen display is not available in text mode.

Contrast, brightness or colour control is not available, but volume control is available in text mode.

### To operate Teletext

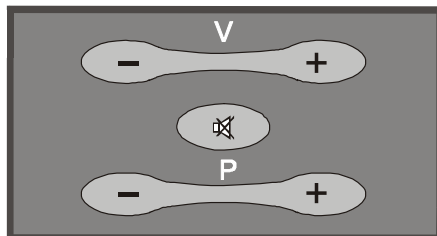
- Select a TV station on which Teletext is being transmitted.
- Press (TELETEXT)  button. Usually the list of contents (index) is displayed on the screen.



### To select a page of Teletext


- 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 “P+” 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.




### To Select Index Page

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




### To Select Teletext with a TV Programme

- 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 page while watching TV

- While Teletext Mode is on, pressing  will change the mode to TV, one more press to  will change the mode from TV to the latest Teletext page we left. In the TV mode enter a page number using digit keys. As you enter digits first line of teletext page will appear on top screen and will remain there until the requested page is found. Then teletext line will be replaced by page number to indicate that page has been found. Now you can display this teletext page pressing  button.

### To Select Double Height Text

- 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

- 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

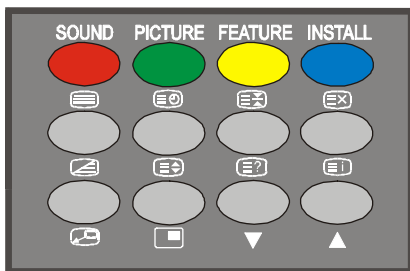
The teletext page you have selected may contain more information than what is on the screen; the rest of the information will be displayed after a period of time.

- 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.



### Fasttext (optional)

(This is applicable if your TV is equipped with FASTEXT feature) (optional)

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 “**P+**” 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 Fasttext

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

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

### To Display the Time

- While watching a TV programme with Teletext transmission press “” button. The current time information, captured from Teletext will be displayed at the upper middle of the screen.
- If the programme being watched does not have Teletext transmission, no information will be displayed.

## 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 (Optional) equipment should be connected at the back or the front side of the TV.

### Via the Euroconnector

Your TV set has one or two Euroconnector socket. If you want to connect peripherals (e.g. video, decoder, etc.) which have Euroconnectors, to your TV, use **optional SCART1** and SCART2 inputs.

If an external device is connected via Euroconnector sockets TV is switched to AV mode automatically. If the signal is RGB then the RGB OSD indicator is displayed on the screen.

In AV mode if you press the “**i**” button the TV status OSD is displayed on the screen.

### Via Ant Input

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, you should connect it to the ANT input of your TV set.

*If the VCR is connected via antenna input it is suggested to use the Programme 0.*

### Decoder

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 (RCA Jack Cable) to **EXTERNAL1** or **EXTERNAL 2** (RCA Jack) (optional). When your decoder has a Euroconnector / RCA Jack you can obtain better picture quality if you connect a eurocable (RCA Jack Cable) to **EXTERNAL** (RCA Jack) (optional).

### TV and Video Recorder

- Connect the aerial cables.

Better picture quality can be obtained if you also connect a eurocable to **EXTERNAL sockets (optional)**.

### Playback NTSC (Optional)

Connect NTSC VCR player to Euroconnector at the back of the TV.

Connect NTSC VCR player to RCA Jacks at the front of the TV (optional).

Then, press “**AV**” button to select AV1 or AV2 or FAV / BAV.

### Copy Facility (Optional)

Source selection for VCR recording.

- Select Features Menu in the Main Menu.
- Select **AV-2 OUTPUT** source pressing “<” or “>” button.

### 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 Install 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 under programme number 0.
- Replace the aerial cable in the aerial socket “**ANT**” of your video recorder once you have stored the test signal.

## Camera and Camcorder

### To connect to Front-AV input (FAV) (optional):

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

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

### To connect to Back-AV (BAV) input / output (optional):

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

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

You can use Back-AV output to receive Audio and Video signals which you enter from the aerial input of your TV and Back-AV input to enter a CVBS signal like Front-AV input. (Optional)

### To connect to S-VHS input (optional):

“Do not use S-VHS and FAV inputs at the same time, the signals will interfere and it can result a poor picture.”

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

- Connect your equipment to the TV via S-VHS input and audio inputs of FAV or BAV inputs by using S-VHS cables.

### Connect the decoder to the video recorder

Some video recorders have a special euroconnector for decoder.

- Connect a eurocable to the euroconnector of your decoder and to the special euroconnector 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 Headphones (Optional)

Use the stereo headphone socket (HP) on the lower front / right side of your TV, to connect headphones.

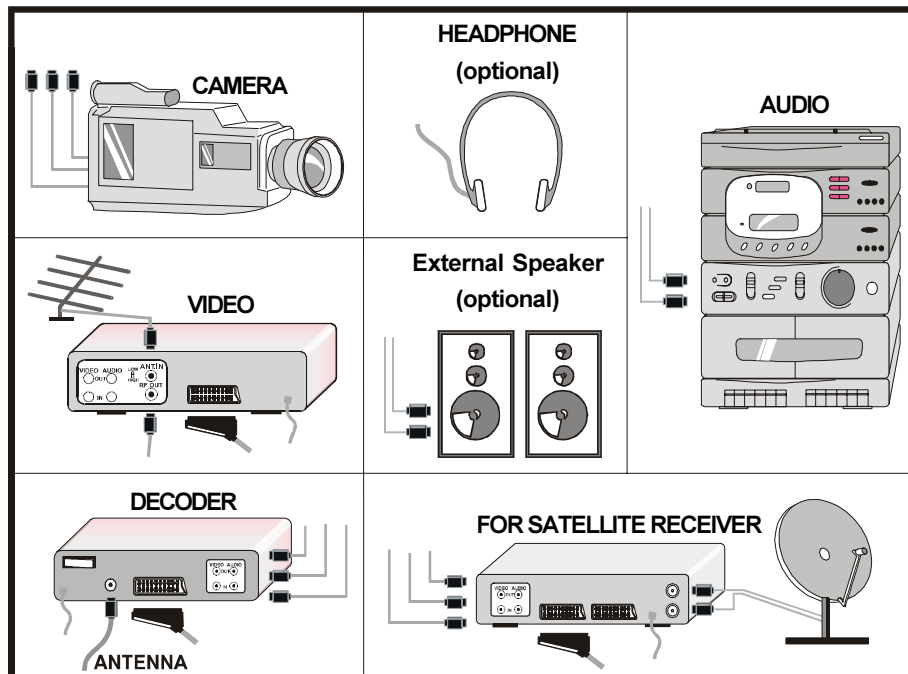
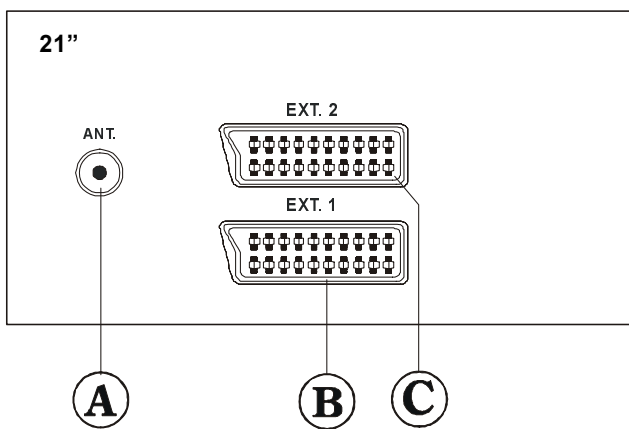
### Connecting External Speakers (optional)

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

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

## Connect Peripheral Equipment

- A** ANTENNA
- B** External 1 (Optional)
- C** External 2 (Optional)



## 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.

Is the picture or Teletext unrecognisable? Check if you have entered the correct frequency.

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

You can not hear any sound. Did you perhaps interrupt the sound, pressing "X" key? Are external speakers connected to the TV?

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 "M" 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.

## 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.**

## Specifications

### TV BROADCASTING

PAL I/I'

### RECEIVING CHANNELS

VHF (BAND I/III)

UHF (BAND U)

HYPERBAND

CABLE TV (S1-S20/ S21-S41)

**NUMBER OF PRESET CHANNELS 100**

### CHANNEL INDICATOR

On Screen Display

### RF AERIAL INPUT

75 Ohm (unbalanced)

### OPERATING VOLTAGE

220 -240V AC, 50 Hz.

### AUDIO OUTPUT

Nicam Stereo

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

2 x 10

**POWER CONSUMPTION (W) (max.)**

130

### PICTURE TUBE

21" 4:3

### DIMENSIONS (mm)

DIMENSIONS (mm)			
D	L	H	Weight (kg)
393	543	469	19

This symbol on the product or in the instructions means that your electrical and electronic equipment should be disposed at the end of life separately from your household waste. There are separate collection systems for recycling in the EU.

For more information, please contact the local authority or your retailer where you purchased the product.



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