

**HITACHI**

# USERS GUIDE

C28WF560N

C32WF560N



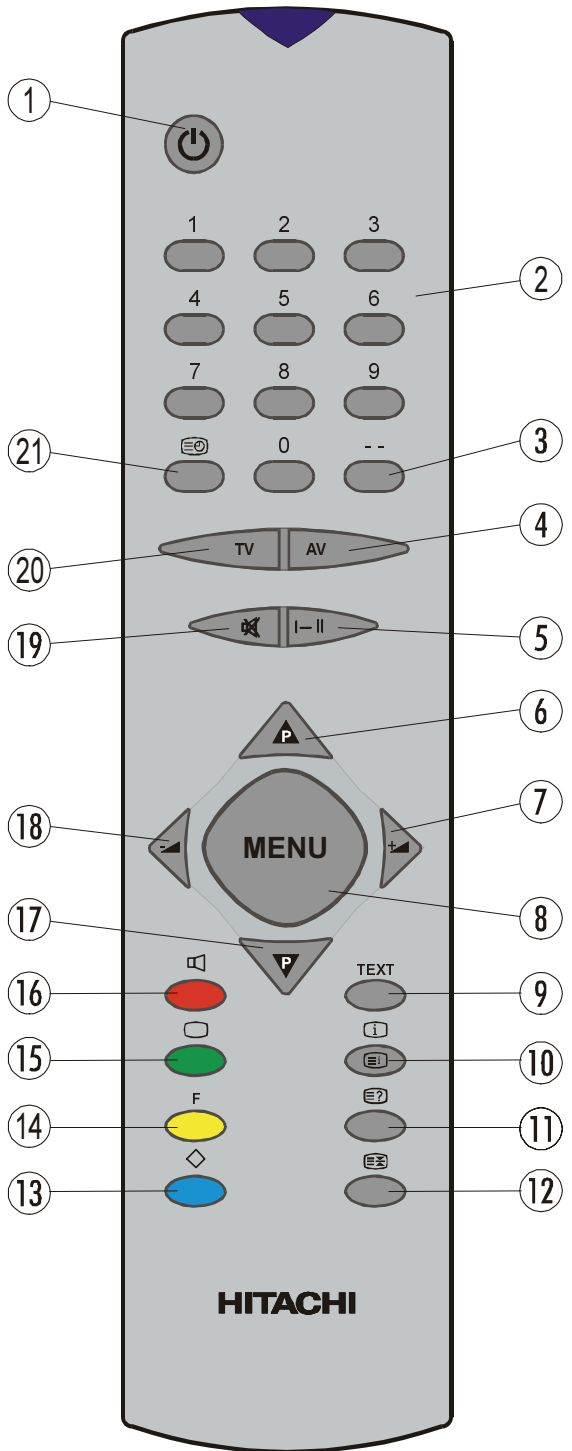
**HITACHI**

# Contents

<b>Remote Control .....</b>	<b>2</b>	<b>Other Features .....</b>	<b>18</b>
<b>Control Panel Buttons and Rear Panel.....</b>	<b>3</b>	TV Status .....	18
<b>Aerial Connections .....</b>	<b>4</b>	Double-digit (- -) .....	18
<b>Connect Peripheral Equipment .....</b>	<b>5</b>	Sound Indicator .....	18
Via the Euroconnector .....	5	Picture Mode .....	18
Via Aerial Input .....	5	Mute Indicator .....	18
Decoder .....	5	Volume Bar .....	18
TV and Video Recorder .....	5	AV Modes .....	18
Playback NTSC .....	5	<b>Teletext .....</b>	<b>19</b>
Copy Facility .....	5	To operate Teletext .....	19
Search for and store the test signal of the video recorder .....	5	To select a page of Teletext .....	19
Camera and Camcorder .....	5	To Select Index Page .....	19
Connect the decoder to the video recorder .....	5	To Reveal "concealed" Information .....	19
Connecting Headphones .....	5	To Stop Automatic Page Change .....	19
<b>Preparation .....</b>	<b>6</b>	To exit Teletext .....	19
Features .....	6	To Display the Time .....	19
<b>Safety Precautions .....</b>	<b>6</b>	Fastext .....	19
<b>Before Switching on your TV .....</b>	<b>8</b>	<b>Tips .....</b>	<b>20</b>
Power connection .....	8	Care of the Screen .....	20
Connections to the RF input socket .....	8	Poor Picture .....	20
How to connect other devices .....	8	No Picture .....	20
Inserting batteries in the remote control handset ..	8	Sound .....	20
<b>Switching the TV ON/OFF .....</b>	<b>8</b>	Remote Control .....	20
To switch the TV on .....	8	No solution .....	20
To switch the TV off .....	8	<b>Specifications .....</b>	<b>20</b>
<b>Operating the TV .....</b>	<b>8</b>	<b>Important Instruction .....</b>	<b>21</b>
A.P.S. (Automatic Programming System) .....	8	<b>UK Guarantee .....</b>	<b>22</b>
Operating with the buttons on the TV set .....	9		
Operating with Remote Control .....	9		
<b>Menu System .....</b>	<b>10</b>		
Sound Menu .....	10		
Picture Menu .....	12		
Feature Menu .....	14		
Installation Menu .....	15		
Program Menu .....	16		

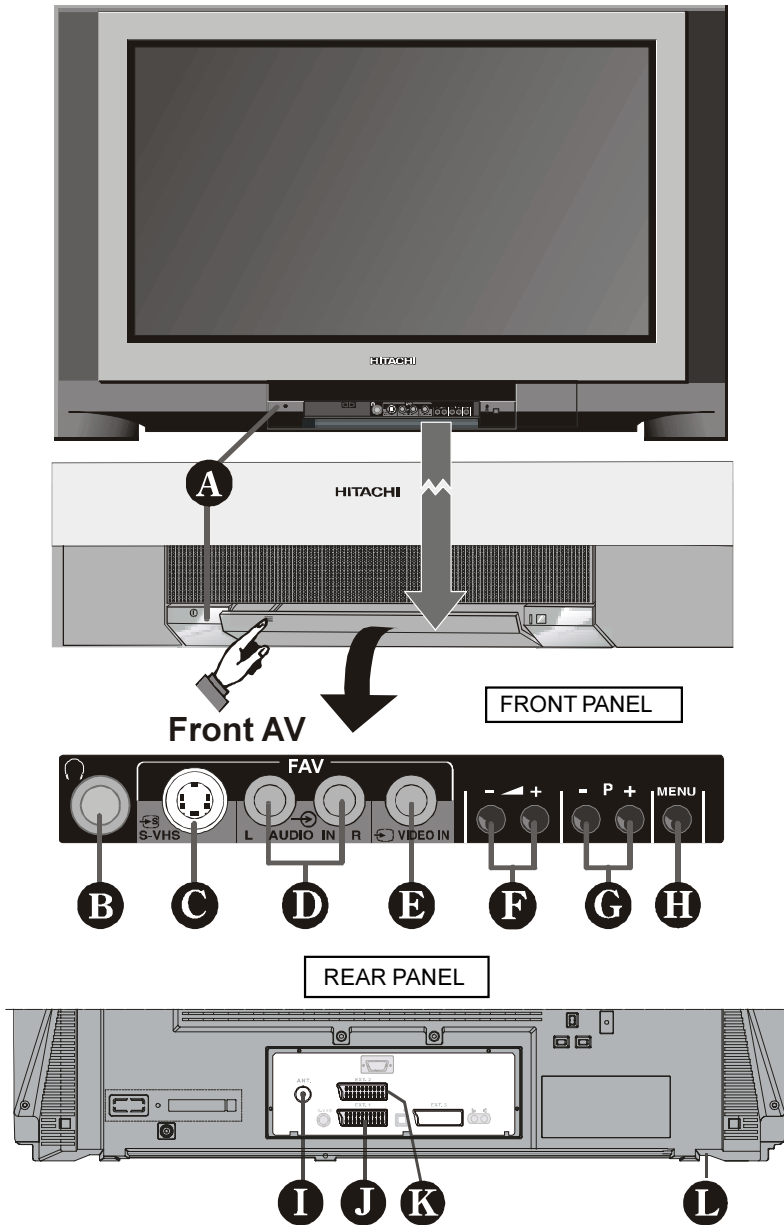
# Remote Control

- ① = Stand By
- ② **0 - 9** = Direct Program
- ③ **--** = Double Digit
- ④ **AV** = External Source  
(EXT-1, RGB, EXT-2, F-AV, SVHS)
- ⑤ **I-II** = Mono / Stereo - Dual I-II
- ⑥ = Programme Up (Cursor Up)
- ⑦ = Cursor Right / Volume +
- ⑧ **MENU** = Menu
- ⑨ **TEXT** = Teletext
- ⑩ = Info (Program Menu) / = Index Page
- ⑪ = Reveal
- ⑫ = Hold / Picture Mode Change \*\*\*
- ⑬ (**Blue**) = Install Menu
- ⑭ **F (Yellow)** = Features Menu
- ⑮ (**Green**) = Picture Menu
- ⑯ (**Red**) = Sound Menu
- ⑰ = Programme Down (Cursor Down)
- ⑱ = Mute
- ⑳ **TV** = TV / Quit Menu
- ㉑ = Time



⑫ = Picture Mode Change \*\*\* (AUTO, 4:3, 16:9, CINEMA, SUBTITLE, ZOOM, PANORAMIC)

## Control Panel Buttons and Rear Panel



**A** Ⓞ = Power On / Off

**B** 🎧 = Headphone 3,6 mm Ø

**C** 🔄 S-VHS = S-VHS

**D** 🎧 L AUDIO IN R = Audio left (white) / right (red)

**E** 🔄 VIDEO IN = VCR (yellow)

**F** - 🔊 + = Volume - / Volume +

**G** - P + = Program - / Program +

**H** MENU = Menu

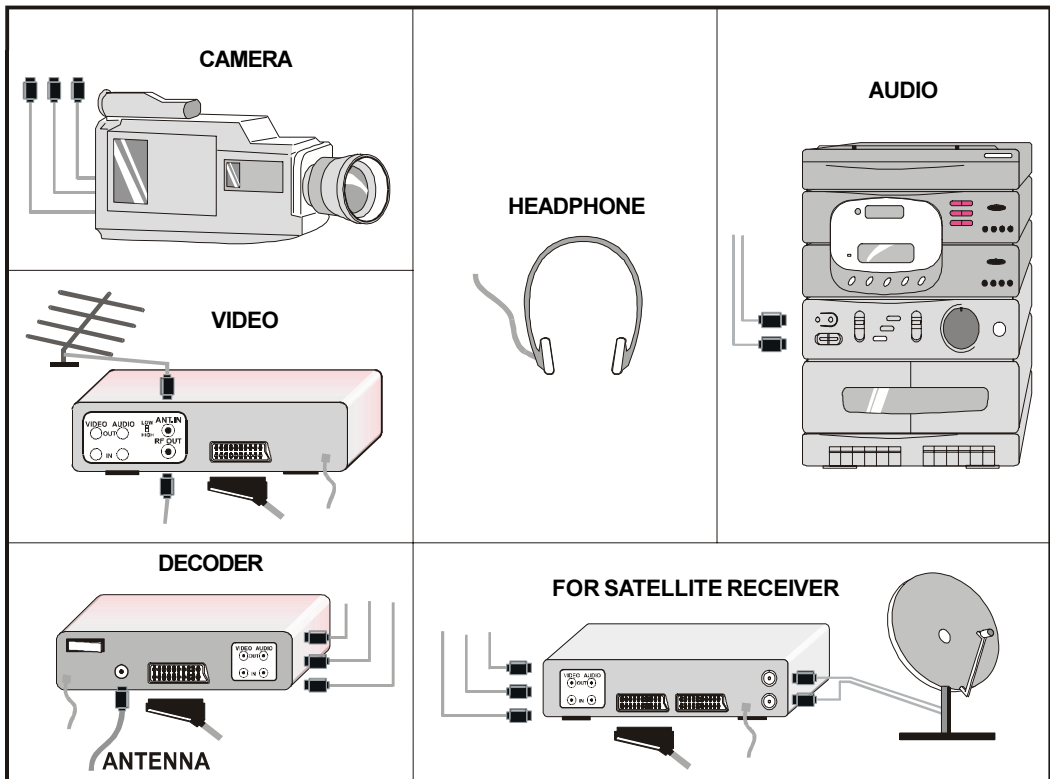
**I** 📡 Aerial Input (75 Ω)

**J** EXT.1 = Scart Socket 1 (with RGB)

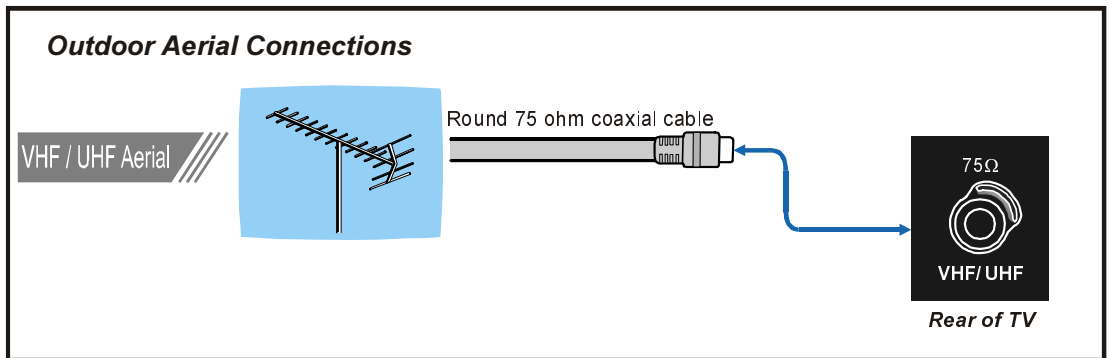
**K** EXT.2 = Scart Socket 2 (with RGB)

**L** 📡 Power Cable

## Connect Peripheral Equipment



## Aerial Connections



Your TV is fitted with a "True Flat" picture tube. The surface of the screen is coated with a transparent foil coating. Care is needed in the cleaning of the screen to prevent damage.

### To Clean:

Clean the laminated screen with a soft, clean, cotton cloth. Use only a mild solution of soapsuds and water to moisten the cloth. Rub the surface gently with the cloth until the surface is completely dry.

### Under no circumstances...

- should the screen be wiped with conventional glass cleaning fluid.
- should the screen be brought into contact with abrasive materials.
- should soiling be removed by polishing or scouring.

## Connect Peripheral Equipment

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

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

### Via the Euroconnector

Your TV set has one, two or three Euroconnector sockets. If you want to connect peripherals (e.g. video, decoder, etc.) which have Euroconnectors, to your TV, use optional **EXT.1** or **EXT.2** 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.

### Via Aerial 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 **Aerial** 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 to **EXT.1** or **EXT.2**. When your decoder has a Euroconnector you can obtain better picture quality if you connect a eurocable to **EXTERNAL**.

### TV and Video Recorder

- Connect the aerial cables.

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

### Playback NTSC

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

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

Then, press "**AV**" button to select EXT-1, RGB, EXT-2, F-AV or SVHS.

## Copy Facility

Source selection for **VCR** recording.

- Select Features Menu in the **MENU**.
- Select **EXT-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 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 Fine Tuning 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 of your video recorder once you have stored the test signal.

## Camera and Camcorder

### To connect to Front-AV input (F-AV):

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 SVHS input:

"Do not use SVHS and F-AV 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 rear side of your TV.

- Connect your equipment to the TV via SVHS input and audio inputs of F-AV inputs by using SVHS 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.

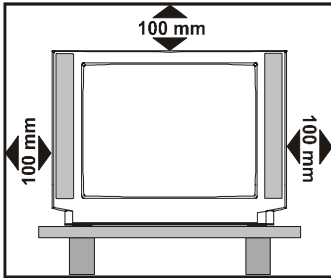
If you want to connect more equipment to your TV, consult your dealer.

### Connecting Headphones

Use the stereo headphone socket on the front side of your TV, to connect headphones.

## 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.



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 two Euroconnector socket for external devices (such as computer, video, video games, audio set, etc.)
- Mono or Stereo sound systems are available.
- Teletext (Fastext).
- It is possible to connect headphone.
- Direct channel access.
- A.P.S. (Automatic Programming System).
- All programmes can be named.
- Forward or backward automatic tuning.
- Sleep timer.
- Child Lock.
- Automatic sound mute when no transmission.
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to stand-by mode.
- WSS (Wide Screen Signaling).
- NTSC Playback.
- Front SVHS is available
- Front AV in is available.
- Real Flat (Dynamic Focus)

## Safety Precautions

### IMPORTANT SAFETY INFORMATION ON OPERATING YOUR TV

#### Do's and Don'ts

##### DO's


This Television has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.


**DO** read the operating instructions before you attempt to use the equipment.

**DO** consult your dealer if you are in any doubt about installation, operation or safety of your equipment.

**DO** be careful with glass panels or doors on equipment.

This TV is supplied with a fitted mains plug. This plug must not be cut off as it may contain a special radio interference filter, the removal of which could lead to impaired performance. If you wish to extend the lead, obtain an appropriate safety approved extension lead or consult your dealer.

Observe the manufacturers instructions when connecting extension leads to the TV. Check the fuse rating on the new plug, this should be fitted with a 5 Amp fuse which conforms to either ASTA or BSI (BS1 362) approvals, these are easily identifiable by either the 

or  symbols. If you are in any doubt about the installation of an extension lead, please consult a competent electrician.

##### DON'Ts

**DON'T** continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way switch off, withdraw the mains plug and consult your dealer.

**DON'T** place water filled vessels on top of T.V. cabinets.

**DON'T** remove any fixed cover as this may expose dangerous voltages.

**DON'T** leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

**DON'T** use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

**DON'T** obstruct the ventilation of the equipment, for example with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.

**DON'T** use makeshift stands and **NEVER** fix legs or stands to the TV with any screws other than those provided - to ensure complete safety always use the manufacturers approved stand with the fixings provided.

**DON'T** allow electrical equipment to be exposed to rain or moisture.

### **ABOVE ALL**

- **NEVER let anyone, especially children push anything into holes, slots or any other opening in the case - this could result in a fatal electric shock.**
- **NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry!**

## **1. Power Source**

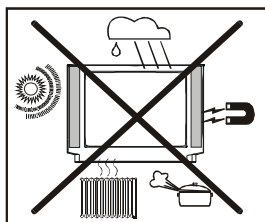
The receiver should be operated only from a **220-240V AC, 50 Hz.** outlet. Ensure you select the correct voltage setting for your convenience.

## **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.

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

## **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.



## Before Switching on your TV

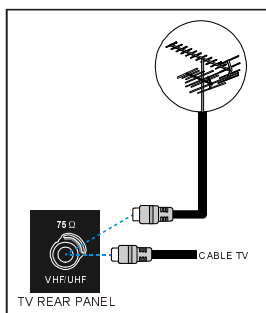
### Power connection

**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.



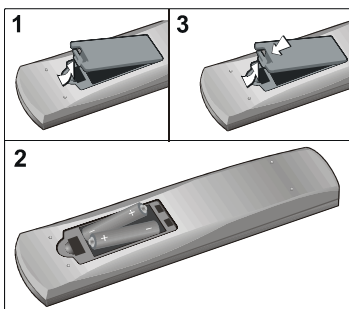
### How to connect other devices

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

Sockets for external connections are at the back and front of the TV. 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 **AAA (R03)** 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 **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 or Down buttons on the front of the TV or on the remote control, so that last switched off programme is selected.

By either method, TV will switch on and the **RED LIGHT** 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 LIGHT** will become **RED**,

or,

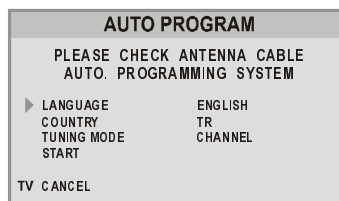
Press the power button located on the front of the TV, so the TV will switch off and the **GREEN LED** will turn off.

## Operating the TV

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

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

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



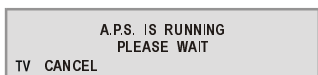
**A.P.S.** automatically programmes your TV, according to the transmission of programme systems in your area.

- First come to the Country item and select your country, according to which the TV will automatically program the TV, from the available countries, by pressing “**◀**” or “**▶**” button.

- By pressing the “**▲**” or “**▼**” buttons, come to the Language item and select the language in which the menus of the TV will appear. You can see the available languages by pressing “**◀**” or “**▶**” button. As soon

as you change the language, the menu items will be displayed in the selected language.

- By pressing the “▲” or “▼” buttons, come to the Tuning Mode item and select the mode at which your TV will run the **A.P.S.**. If you select **Channel** Tuning Mode, **A.P.S.** 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, **A.P.S.** will run according to Frequency Tuning Mode and will auto-search according to the frequencies of the stations in your area.
- After selecting the Tuning Mode if you want to start **A.P.S.**, by pressing the up and down buttons, come to the **Start** item and by pressing “▶” or “◀” button start the **A.P.S.**.
- If you do not want to start **A.P.S.**, you can cancel it by pressing the “TV” button on your remote control.
- When you start **A.P.S.** the below menu will appear on the screen.



### Operating with the buttons on the TV set

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

#### Volume Setting

- Press “-▶” button to decrease volume or “▶+” button to increase volume, so a volume level scale (slider) will be displayed in the lower middle side of the screen.

#### Programme Selecting

- Press “P+” button to select the next programme or “-P” button to select the previous programme.

#### Entering MENU

- Press “MENU” button to enter the **MENU**. In the **MENU** select sub-menu using “-P” or “P+” button and enter the sub-menu using “-▶” or “▶+” button. To learn the usage of the menus, refer to the Menu System section.

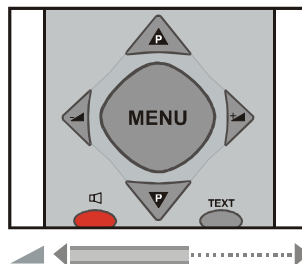
### Operating with Remote Control

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

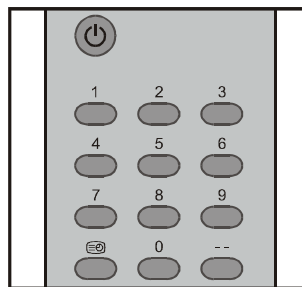


#### Programme Selecting (Previous or next programme)

- Press “▼” button to select the previous programme.
- Press “▲” 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 this screen.

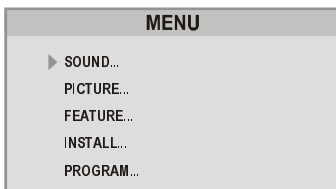
Press the digit buttons consecutively for the channel you wish to watch (e.g for channel 27, first press 2 then 7). If you do not press the second digit within 3 seconds of pressing the first, the display will disappear.

## 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 "MENU" button. The MENU will be displayed in the middle on the screen.

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



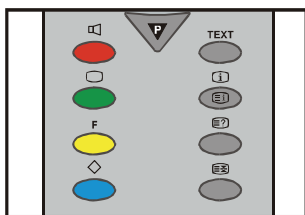
To select a sub-menu use "▲" or "▼" button, and press "▶" or "◀" button. Each option can also be selected with the coloured button and "i" button on the remote control.

### MENU

The menu system is described below.

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

"MENU" Button,	Menu.
Red "□" Button,	Sound Menu.
Green "○" Button,	Picture Menu.
Yellow "F" Button,	Feature Menu.
Blue "◇" Button,	Install Menu.
"i" Button,	Program Menu.



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

### Sound Menu

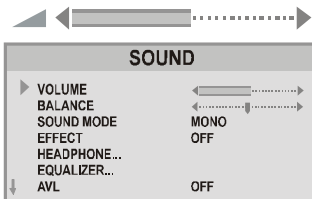
#### To change sound settings

- Enter the Sound Menu directly, pressing the Red "□" button or,
- As you enter the MENU, sound will be the first selected option. In the 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 "▶" (to increase) or "◀" (to decrease) button.

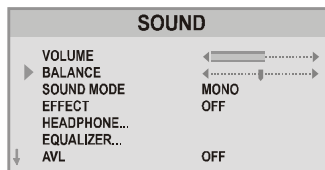


## Setting Balance

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

- Using "▲" or "▼" button select Balance.
- Press "▶" button to change balance to the right.
- Press "◀" button to change balance to the left.

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

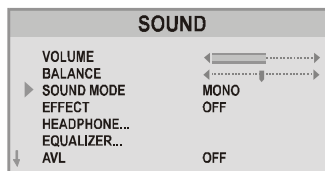


## Selecting Sound Mode

- Using "▲" or "▼" button select Mode.
- Press "▶" or "◀" button to change Mode.

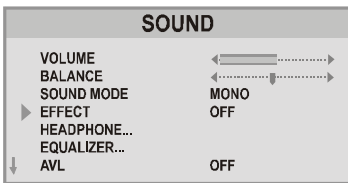
You can select **MONO**, **STEREO**, **DUAL-I** or **DUAL-II** mode, only if the selected channel supports that mode.

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



## Setting Effect

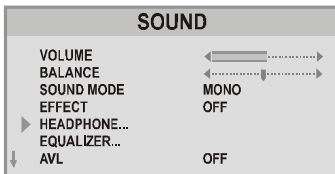
You can use this feature to switch **ON** and **OFF** sound effect. Pressing "▶" or "◀" button will turn on or off this feature. If the current sound system is Mono and the sound effect is set ON, then the sound will be heard as if it is Stereo. If the current sound system is Stereo, switching this effect on will give a more spatial sound.



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

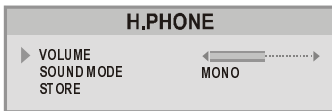
## To Change Headphone Sound Settings

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

- 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 Sound Mode

- 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).

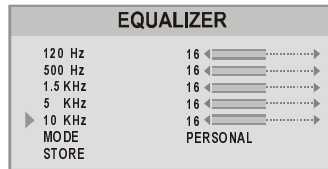
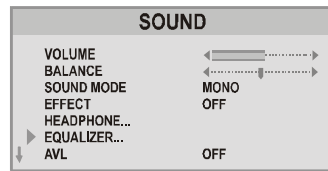
In case of bilingual broadcast, you can select original or dubbed language again using mode menu. So when somebody listens to the original language from the loudspeakers, somebody else can listen to the dubbed language from headphone.

### To Store the Headphone 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.

## Equalizer

To enter Equalizer sub-menu, select Equalizer using “▲” or “▼” button, then enter Equalizer menu pressing “▲” or “▼” button.



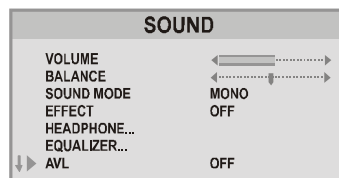
In **Mode** item there are four predefined and one user defined options. These are **PERSONAL**, **MUSIC**, **SPEECH**, **JAZZ** and **FLAT**. The predefined options can not be changed by the user. The **Personal** option may be adjusted by the user.

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.

To store the Equalizer settings, press “▲” or “▼” button on “**STORE**” option.

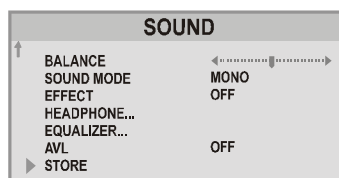
### Setting AVL

Automatic Volume Limiting (AVL) function normalizes sound to obtain fixed output level between programs, having different sound levels. Pressing “▲” or “▼” button will turn **ON** and **OFF** this feature.




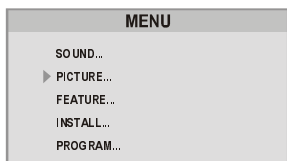
### To Store the Settings

- Press “▲” or “▼” button on “**STORE**” option to store Sound menu settings, or,
- Press “OK” button to store sound menu settings in sound menu.



## Picture Menu

- To enter the Picture menu directly, press the **Green** “” button, or
- Press “**MENU**” button, now you are in **MENU**. In the **MENU**, select “**PICTURE**” using “**▲**” or “**▼**” button, then enter the Picture menu pressing “**▶**” or “**▶**” button.

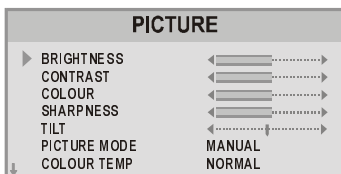


**Note:** When Picture Mode is not “**MANUAL**”, BRIGHTNESS, CONTRAST and COLOUR options can not be reached by “**▲**” or “**▼**” buttons.

### Setting Brightness

You can change **Brightness** only when Picture Mode is selected **MANUAL**.

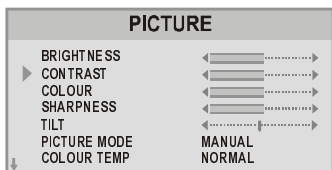
- As you enter the picture menu, Brightness will be the first selected option.
- Press “**▶**” button to increase brightness.
- Press “**▶**” button to decrease brightness.



### Setting Contrast

You can change **Contrast** only when Picture Mode is selected **MANUAL**.

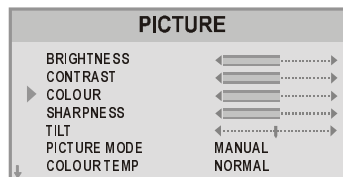
- Using “**▲**” or “**▼**” button select Contrast.
- Press “**▶**” button to increase contrast level.
- Press “**▶**” button to decrease contrast level.



### Setting Colour

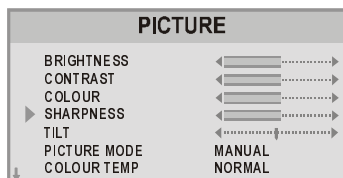
You can change **Colour** only when Picture Mode is selected **MANUAL**.

- Using “**▲**” or “**▼**” button select Colour.
- Press “**▶**” button to increase colour level.
- Press “**▶**” button to decrease colour level.



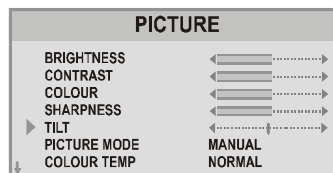
### Setting Sharpness

- Using “**▲**” or “**▼**” button select Sharpness.
- Press “**▶**” button to increase peaking level.
- Press “**▶**” button to decrease peaking level.



### Setting Tilt

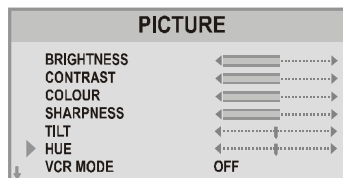
- Using “**▲**” or “**▼**” button select Tilt.
- Press “**▶**” button to increase tilt level.
- Press “**▶**” button to decrease tilt level.



### Setting Hue (In AV mode only)

(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.):

- 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.



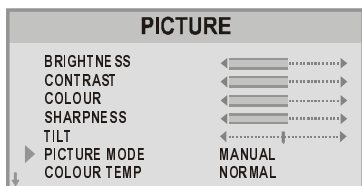
### Setting VCR Mode (In AV mode or channel 0 only)

- Using “**▲**” or “**▼**” button select VCR Mode.
- When you watch a picture from your VCR and the picture is unstable, you may improve it by changing the “**VCR MODE**” setting from “**ON**” to “**OFF**”.



## Setting Picture Mode

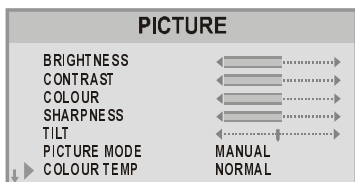
This item is used to change the picture mode. By pressing “◀” or “▶” button you may select one of these options: **BRIGHT, STANDARD, SOFT, MANUAL**.



## Setting Colour Temp

This item is used to change the Colour Temperature.

By pressing “◀” or “▶” button you may select one of these options: **COOL, WARM, NORMAL**.



## Setting Zoom

You can change the screen size according to the picture aspect ratio. Select the optimum one from the following **ZOOM** modes.

### AUTO:

When a **WSS (Wide Screen Signalling)** signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the **ZOOM** mode to **16:9** mode or **4:3** mode according to the **WSS** signal.

- When the **AUTO** mode does not function correctly due to poor **WSS** signal quality or when you want to change the **ZOOM** mode, change to another **ZOOM** mode manually.

### Using the different screen formats

Press the “◀” or “▶” button to select the different modes: **4:3, 16:9, CINEMA, SUBTITLE, ZOOM** and **PANORAMIC**.

You can also access these settings with “” button.

### 4:3

The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture. The picture

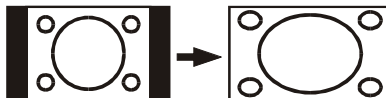
may be progressively enlarged using the “▲” or “▼” buttons.



### 16:9

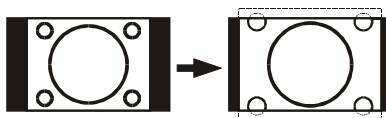
This mode restores the correct proportions of pictures transmitted in 16:9 using full screen display.

Note: If you display a 4:3 picture in this mode, it will be enlarged horizontally.



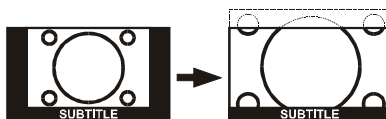
### CINEMA

The picture is enlarged to CINEMA format, a thin black band remains on both sides of the picture. The “▲” or “▼” buttons allow you to compress and move the image vertically to view the top or bottom of the picture (subtitles).



### SUBTITLE

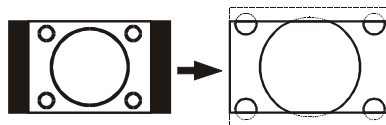
This mode is used to display 4:3 pictures using the full surface of the screen leaving the sub-titles visible. Use the “▲” or “▼” buttons to increase or decrease the compression at the bottom of the screen.



### ZOOM

The picture is enlarged to 16:9 format. This mode is recommended when displaying pictures which have black bands at the top and bottom (letterbox format).

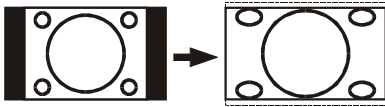
Use the “▲” or “▼” buttons if you wish to compress and move the image vertically to view the top or bottom of the picture.



### PANORAMIC

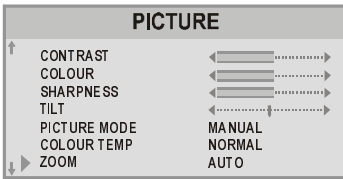
This mode is used to display 4:3 pictures using the full surface of the screen by enlarging the sides of the picture.

The “▲” or “▼” keys allow you to scroll the image up or down the screen.



Select the **ZOOM** mode:

Press the “◀” or “▶” button to select a **ZOOM** mode.



**Adjusting the visible area of the picture:**

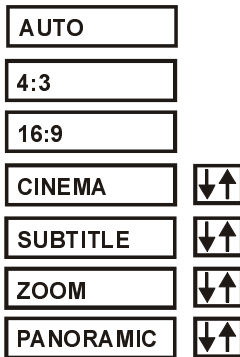
If subtitles or the top (or bottom) of the picture are cut off, you can adjust the visible area of the picture manually.

1. Press “” button once.

The **ZOOM** mode indicator appears. The **ZOOM** mode will not be changed.

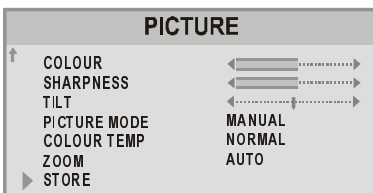
2. While it is displayed, press “▲” or “▼” buttons to change the position of the picture.

• You can not adjust the visible area in **4:3** or **16:9** mode.



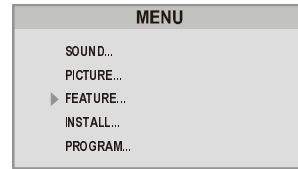
**To Store the Settings**

• Press “◀” or “▶” button on **STORE** option to store Picture menu settings.



## Feature Menu

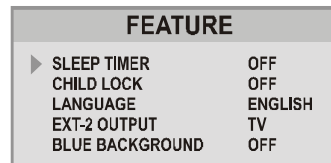
- To enter the **FEATURE** menu directly, press the **Yellow “F”** button, or
- Press “**MENU**” button, now you are in **MENU**. In the **MENU**, select **FEATURE** using “▲” or “▼” button. Then enter the **FEATURE** menu pressing “◀” or “▶” button.



## 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, 10, 20, 30, ....., 110** and **120**.

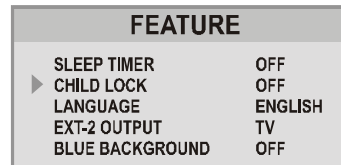
If sleep timer is activated, at the end of the selected the time, the TV goes automatically to stand-by mode.



## 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 Power On/Off button) will not work.



If Child Lock is **ON**, when one of the front panel buttons (except power button) is pressed, “**CHILD LOCK**” OSD is seen on the screen.



## Selecting Menu Language

Menu language can be selected by pressing “◀” or “▶” button on **LANGUAGE** item.

FEATURE	
SLEEP TIMER	OFF
CHILD LOCK	OFF
▶ LANGUAGE	ENGLISH
EXT-2 OUTPUT	TV
BLUE BACKGROUND	OFF

## EXT-2 Output

From EXT-2 Output, either **TV**, **EXT-1** or **F-AV** can be given. **TV**, **EXT-1** or **F-AV** can be selected by pressing “◀” or “▶” button on “EXT-2 OUTPUT”.

FEATURE	
SLEEP TIMER	OFF
CHILD LOCK	OFF
LANGUAGE	ENGLISH
▶ EXT-2 OUTPUT	TV
BLUE BACKGROUND	OFF

## Blue Background During No-Signal

In case, no valid signal is detected (in TV 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.

The **BLUE BACKGROUND** feature can be set by “◀” or “▶” button to either **On** or **Off**.

FEATURE	
SLEEP TIMER	OFF
CHILD LOCK	OFF
LANGUAGE	ENGLISH
EXT-2 OUTPUT	TV
▶ BLUE BACKGROUND	OFF

## To Store Settings

In **FEATURE** menu all settings are stored automatically.

## Installation Menu

- To enter the **Install** menu directly, press the **Blue** “◇” button, or
- Press “**MENU**” button, now you are in **MENU**. In the **MENU**, select “**INSTALL**” using “▲” or “▼” button. Then enter the Install menu pressing “◀” or “▶” button.

MENU	
SOUND...	
PICTURE...	
FEATURE...	
▶ INSTALL...	
PROGRAM...	

## Selecting Programme

To select programme number, you can use “◀” or “▶” button, Digit Buttons or The Double Digit button with digit buttons.

INSTALL	
▶ PROGRAMME	P4
TUNING MODE	CHANNEL
BAND	S
CHANNEL	6
COLOUR SYSTEM	PAL
FINE TUNING	◀.....▶
SEARCH	◀.....▶

## Tuning Mode

### Selecting Channel

- 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**” mode or “**FREQUENCY**” mode.

When you select “**CHANNEL**” the display of the Tuning Menu will be as below :

INSTALL	
PROGRAMME	P4
▶ TUNING MODE	CHANNEL
BAND	S
CHANNEL	6
COLOUR SYSTEM	PAL
FINE TUNING	◀.....▶
SEARCH	◀.....▶

### Selecting Band

**BAND**, can be selected either,

- “C” or “S” by “◀” or “▶” button.

#### 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

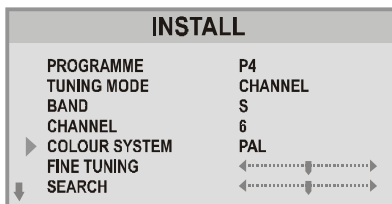
**CHANNEL** can be changed by “◀” or “▶” button, by Digit Buttons or by the Double Digit button with digit buttons.

### Selecting Colour System

This item is used to change the colour system. If the picture is not clear or no colour appears, select the correct colour system to display the picture normally.

When the TV is in TV mode; by pressing “◀” or “▶” button you may select one of these options: **PAL**, **SECAM**. When the TV is in AV mode; you may select one of these options: **AUTO**, **PAL**, **SECAM**, **NTSC 3.58**, **NTSC 4.43**.





## Selecting Fine Tuning

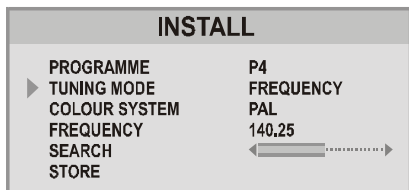
You can use the Fine Tuning process for fine adjustment (after coarse adjustment), if you are not happy about the image on the screen.

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.

## Selecting Frequency

- When you select “**FREQUENCY**”, the display of the Tuning menu will be as below :



The frequency value is,

- 040 - 900 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”.

## Selecting Search

To start the search process, press “**▲**” button for forward search or “**▼**” button for backward search. **SEARCH** item bar blinks during search process, up to the process is stopped or signal is found. To stop the search process “**▲**” or “**▼**” button must be pressed again.

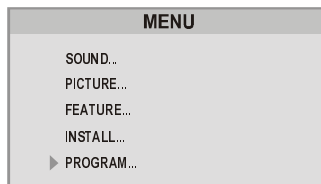
## To Store Settings

Press “**▲**” or “**▼**” button on **STORE** option to store Install menu settings.

## Program Menu

- To enter Program menu directly, press the “**i**” button, or
- Press “**MENU**” button, now you are in **MENU**. In the **MENU**, select “**PROGRAM**” using “**▲**” or “**▼**” button.

Then enter the Program menu pressing “**▲**” or “**▼**” button.



Moving cursor to four direction you can reach 30 programmes in the same page. By scrolling the pages up or down by pressing the navigation buttons you can select all the programmes in TV mode (except the AV mode).

In menus, “**▲**” or “**▼**” buttons are working like "Direction Up" and "Direction Down".

By cursor action, programme selection is done automatically. Selected programme is displayed with “**HIGHLIGHTED**” characters.

Programme Number is between 00 and 99. Programme Name has a name string with 4 characters. After autostore process the Programme Names are set to:

- Frequency search “**PR01**” (programme number),
- Channel search “**C01**” or “**S01**” (band and channel number), as default.

At the bottom of the menu there is a programme sort functions section. Each function is activated by color button. **NAME** allows changing the programme name. By **DELETE** you can delete programmes that you decided. **INSERT** section is for inserting programmes into another programme spaces. By selecting **AUTOSTORE** section, Autostore menu will be available.

To change the name of a decided programme, that programme is selected and pressed to the **RED** button (**NAME**). First letter of the selected **NAME** is displayed with **HIGHLIGHTED** character. To change that letter “**▲**” or “**▼**” button can be used, and to select the other letters, “**▲**” or “**▼**” button can be used. If the cursor is at the last letter of the Programme Name, pressing “**▲**” button moves the cursor at the beginning. On the contrary, if the cursor is at the beginning of the Programme Name, pressing “**▼**” button moves the cursor at the end.

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	

At the bottom of the menu there is a programme sort functions section. Each function is activated by coloured

button (seen above). **Name** allows changing the programme name. By **Delete** you can delete programmes that you do not require. **Insert** section is for inserting programmes into another programme spaces. By selecting **Autostore** section, Autostore menu will be available.

**Name:**

To change the name of a programme, select the programme and then press the RED (Name) button. The first letter begins to blink on the selected name. To change that letter “△” or “▽” button can be used, and to select the other letters, “◀” or “▶” button can be used. If the cursor is at the last letter of the Programme Name, pressing “▶” button moves the cursor at the beginning. On the contrary, if the cursor is at the beginning of the Programme Name, pressing “◀” button moves the cursor at the end.

After changing the name press the RED (Store) button. After activating the name process the “Insert”, “Delete” and “Autostore” processes will be inactive and “Cancel” option will be valid. If you do want to store the new name, press the BLUE (Cancel) button.



**Insert:**

When the Green (Insert) button is pressed, “Name”, “Autostore” and “Delete” functions are erased, the selected programme (A) is displayed with an arrow. From now on, the automatic selection is cancelled. With navigation buttons, the decided programme space (B) can be selected and by pressing the green button again, the selected programme will be inserted.

Press **Blue** button to activate “Cancel” function of “Insert” process.

**Delete:**

To start the “Delete” process, press the yellow “Delete” button, (“Name”, “Insert” and “Autostore” functions are inactive). Pressing yellow button again erases the selected programme from the programme list, and the programmes below shift one up. Pressing **Blue** button cancels the activated “Delete” process.

**Autostore**

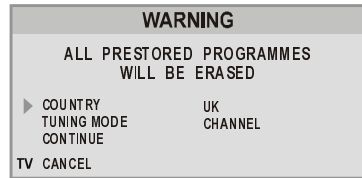
**(A.P.S. (Automatic Programming System))**

**A.P.S.** automatically programmes your TV, according to the transmission of programme systems in your area. If you want to make **A.P.S.** any other time:

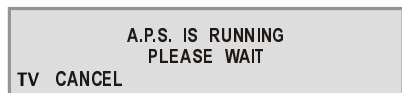
- Press “MENU” button, now you are in **MENU**.
- Select “PROGRAM” menu using “▲” or “▼” button.
- Press “◀” or “▶” button to enter the “PROGRAM” menu.
- In the “PROGRAM” menu enter **AUTOSTORE** menu by pressing **BLUE** button. Here you can run **A.P.S.** (Automatic Programming System). **A.P.S.** automati-

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

A warning message will appear on the screen as below:



- 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.
- If you want to **CONTINUE**, then first by pressing the “▲” or “▼” buttons, come to the Tuning Mode item and select the mode at which your TV will run the **A.P.S.**
- If you select **CHANNEL** Tuning Mode, **A.P.S.** 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, **A.P.S.** will run according to Frequency Tuning Mode and will auto-search according to the frequencies of the stations in your area.
- Then, after selecting the Tuning Mode if you want to start **A.P.S.**, by pressing the “▲” or “▼” buttons, come to the Continue item and by pressing “◀” or “▶” button start the **A.P.S.**
- When you start **A.P.S.** the below menu will appear on the screen.



After **A.P.S.** is finalized, 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 with “HIGHLIGHTED” characters. Using “▲” or “▼” or “◀” or “▶” buttons you can move the highlighted number and then display the programme corresponding to the highlighted number.

If you do not accept the correspondence between programme numbers and names and want to change them, press “MENU” button and then **BLUE** button, so that you enter the Installation menu.

## Other Features

### TV Status

**Programme Number, Programme Name (or AV) and Sound Indicator** are displayed on the upper left of the screen. They are displayed after programme change during 3 seconds.

**P01** Programme Number

**PR01** Programme Name (4 characters)

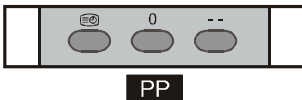
These OSD's are displayed when a new programme is entered by digit button, by pressing "▲" or "▼" button, or by "TV" button.

### Double-digit (--)

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

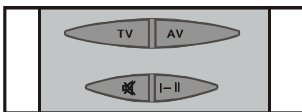
**P --**

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.



### Sound Indicator

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, Stereo, 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", "16:9", "CINEMA",

"SUBTITLE", "ZOOM", "PANORAMIC" or "AUTO" is written.

By pressing "TEXT\_UPDATE" (TXT\_UPDATE) button (if Teletext is not active) the picture mode can be switched into "4:3", "16:9", "CINEMA", "SUBTITLE", "ZOOM", "PANORAMIC" or "AUTO" Mode.

**4:3**

### 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 "MUTE" 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.

### Volume Bar

It is displayed in the lower middle of the screen. When a volume command is received (pressing "▲" or "▼" 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

By pressing the "AV" button you can switch your TV to AV modes (except being in Teletext). Pressing this button will switch the TV in one of the optional AV modes: **EXT-1, RGB, EXT-2, F-AV** or **SVHS**. EXT.1 supports the RGB mode.

In order to quit the AV mode press the "TV", digit buttons or "▲" / "▼".

## Teletext

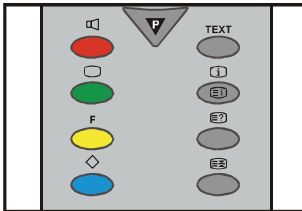
Teletext is an information system that displays text on your TV screen. Using the Teletext information system you can view a page of information on a subject that is available in the list of contents (index).

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) “TEXT” button. Usually the list of contents (index) is displayed on the screen.

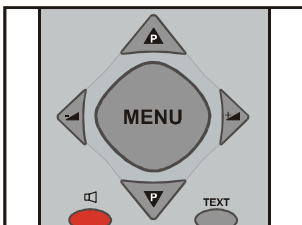


### To select a page of Teletext

- 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 “▲” 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

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

### To Reveal “concealed” Information

- Pressing “E?” button once will reveal answers on a quiz or games page.
- Pressing “E?” 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.

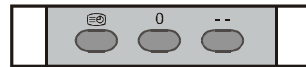
- Press “E” button to stop the automatic page change.
- Press “E” button again to allow the next page to be displayed.

### To exit Teletext

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

### To Display the Time

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



## Fastext

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 “▼” 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.

## 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 unrecognizable? 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 buttons on the remote control? Try once more.

### Sound

You can not hear any sound. Did you perhaps interrupt the sound, pressing "X" button? 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 buttons at the front of your TV.

Have you selected the wrong menu? Press "TV" button to return to TV mode or press "MENU" button 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 I/I'

### RECEIVING CHANNELS

VHF (BANDI/III)

UHF (BAND U)

HYPERBAND

CABLE-TV (S1-S20 / S21-41)

### NUMBER OF PRESET CHANNELS

100

### CHANNEL INDICATOR

OSD (ON SCREEN DISPLAY)

### RF AERIAL INPUT

75 Ohm Unbalanced

### OPERATING VOLTAGE

220-240V AC, 50 Hz.

### AUDIO OUTPUT

Nicam Stereo

### C28WF560N

#### PICTURE TUBE

28" 16:9 (66 cm.)

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

136 Watt

#### DIMENSIONS (DxLxH) (mm)

D	L	H	Weight (kg)
550	790	515	39

### C32WF560N

#### PICTURE TUBE

32" 16:9 (78 cm.)

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

140 Watt

#### DIMENSIONS (DxLxH) (mm)

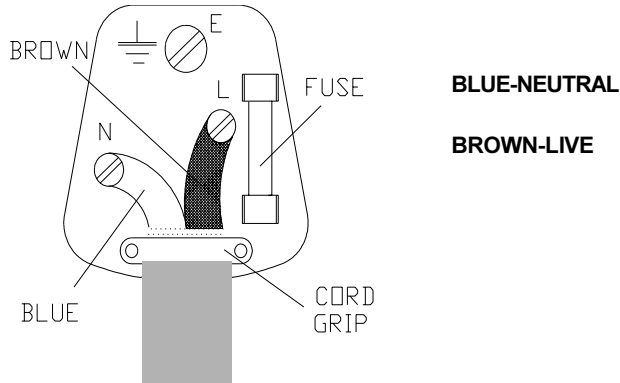
D	L	H	Weight (kg)
550	884	572	59

## 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 :



### 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 or 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.

## **UK Guarantee**

### **Your Guarantee of Excellence**

Thank you for purchasing this Hitachi Television.

In the unlikely event that this product should develop a fault, we undertake to replace or repair any part of the product which fails due to a manufacturing defect within 12 months of the date of purchase provided that:

- i) The product has been installed and used only in accordance with the instructions supplied with the product
- ii) The product has not been repaired, maintained, or modified by any person other than an Hitachi authorised engineer
- iii) The product serial number has not been removed or altered

This guarantee does not apply to product acquired second hand or for commercial or communal use

This guarantee does not cover the replacement of exhausted batteries, the adjustment of user controls, or aerial alignment.

Any parts replaced under this guarantee shall become the property of Hitachi Europe Ltd.

Please note that evidence of the date of purchase will be required before any service under this guarantee is carried out.

**THIS GUARANTEE DOES NOT AFFECT YOUR STATUTORY RIGHTS.**

**IN ALL CASES OF DIFFICULTY PLEASE CONSULT YOUR HITACHI DEALER**

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