

HITACHI

Instructions for use **GB**

15LD2200



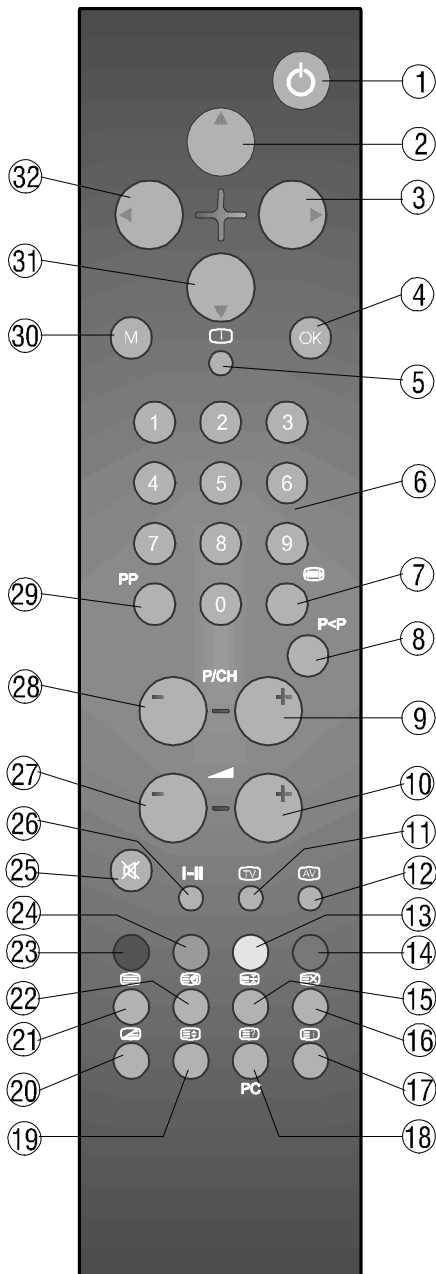
HITACHI

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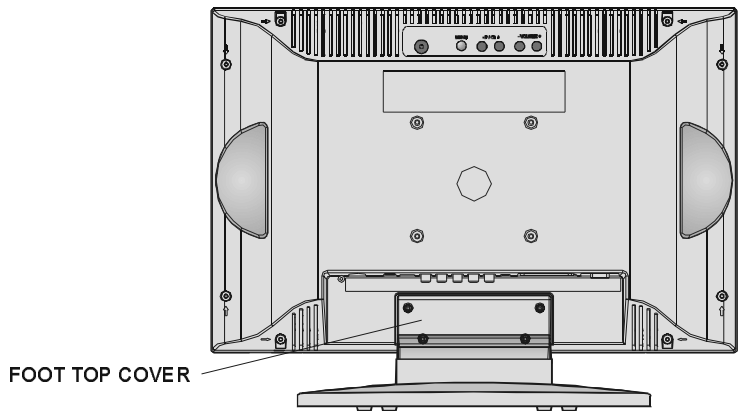
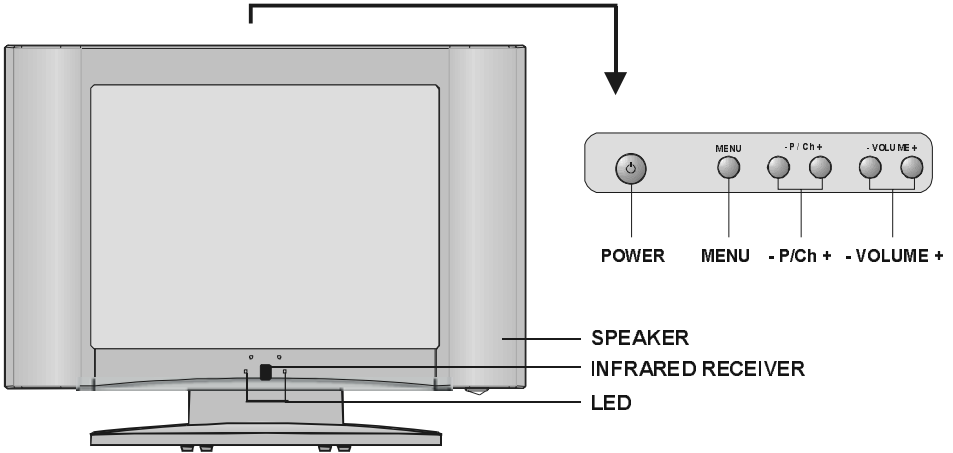
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Remote Control Buttons

- ① = Stand By
- ② = Cursor Up
- ③ = Cursor Right
- ④ **OK** = Okay (Store)
- ⑤ = Info
- ⑥ **0 - 9** = Direct Programme
- ⑦ = Image size
- ⑧ **P<P** = Previous Programme
- ⑨ **P/CH +** = Programme Up
- ⑩ = Volume Up
- ⑪ = TV / Quit Menu
- ⑫ = External Source
(AV-1, RGB1, AV-2, SVHS, PC)
- ⑬ Yellow button
- ⑭ Blue button
- ⑮ = Hold
- ⑯ = Update
- ⑰ = Index Page
- ⑱ = Reveal / **PC** = Switch from TV to PC
- ⑲ = Expand
- ⑳ = Mix
- ㉑ = Teletext
- ㉒ = Time / Subcode page
- ㉓ Red button
- ㉔ Green button
- ㉕ = Mute
- ㉖ **I-II** = Mono/Stereo - Dual I-II
- ㉗ = Volume Down
- ㉘ **- P/CH** = Programme Down
- ㉙ **PP** = Color temperature settings
- ㉚ **M** = Menu
- ㉛ = Cursor Down
- ㉜ = Cursor Left



Control Panel Buttons



Preparation

Install Display on solid horizontal surface such as a table or desk.

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.

Installation of device on the wall (Wall Bracket Optional Extra)

Step 1:

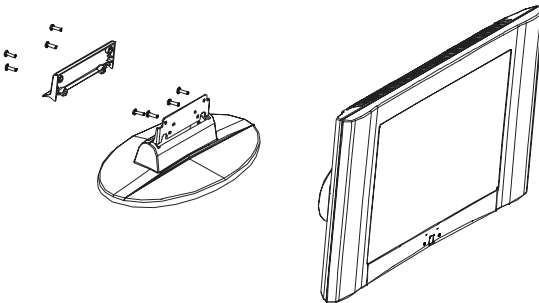
Invert the flat monitor screen and placed it on a flat surface. Remove the back support from the screen. Replace the support with the mounting bracket align the holes from the bracket with the mounting holes found on the back of the monitor chassis. Secure the bracket with the same four (4) 4 (mm) head screws.

Step 2:

Choose the wall where the monitor would be located. Level and mark with a pencil the four (4) mounting points found on the wall bracket. Drill pilot holes for the plastic anchors then secure the wall bracket with the four (4) **L=32 mm x D=5 mm** screws (supplied).

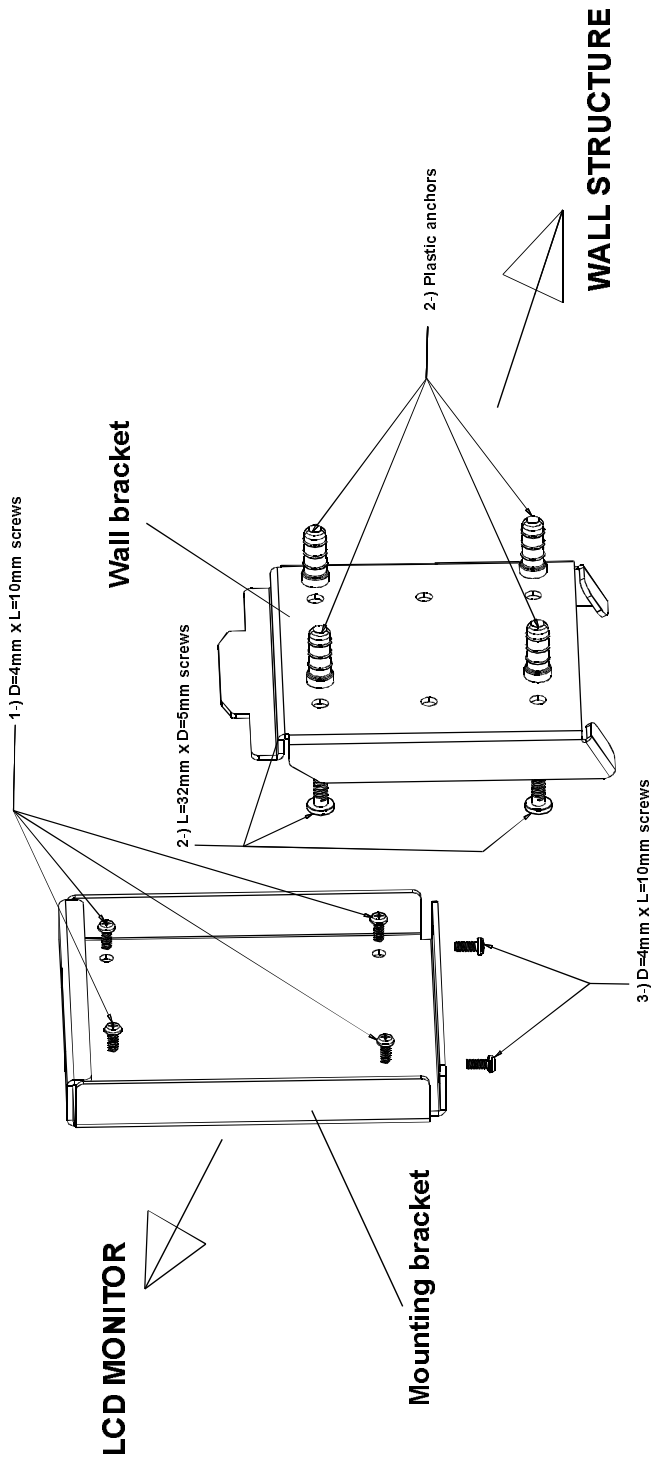
Step 3:

Raise the monitor with the mounting bracket attached and slip the top opening to the safety flange on the secured wall bracket. Let the monitor fall in place safely and secure the two (2) **D=4 mm x L=10 mm** safety screws (supplied) with a long screwdriver for additional security.



"When the wall bracket is used to install the back cover and the front panel after the foot assembly is removed, to eliminate the space which occurs at the lower side of the front cover (front panel) and back cover, use the screws that are supplied for the lower side of the foot top cover (back support)."

Note: Do not over tighten!



Features

- Remote controlled colour television.
- 100 programmes from VHF, UHF bands or cable channels can be preset.
- It can tune to cable channels.
- Controlling the TV is very easy by its menu driven system.
- It has an SCART socket for an external device (such as video, video games, audio set, etc.)
- Stereo sound system (Nicam).
- Full function Teletext (Fastext)
- Headphone connection.
- Direct channel access.
- A.P.S. (Automatic Programming System).
- All programmes can be named.
- Programme swapping between the last two programmes.
- Forward or backward automatic tuning.
- Sleep timer.
- Child Lock
- Automatic sound mute when no transmission.
- Wide, Auto and Fill all modes.
- NTSC Playback.
- AV in is available.
- SVHS is available.
- VGA connector.
- AVL (Automatic Volume Limiting)
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to stand-by mode.
- PLL (Frequency Search)
- PC input (Support Up to XGA 1024 x 768)
- Plug&Play for Windows 9X, ME, 2000, XP
- 4H Comb Filter

Panel Features

- High resolution (1024 x 768), 15"-inch TFT LCD display.
- Contrast ratio (400:1 typical)
- Brightness (typical) 430 cd/m².
- High-speed response time < 25 msec.
- Wide viewing angle (typical) 140° (horizontal) and 120° (vertical).
- 8-bit colour depth, display 16.2 M colours.

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 TV set is designed to operate on **12 V DC**. The adaptor should be operated from a **220-240 V 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.

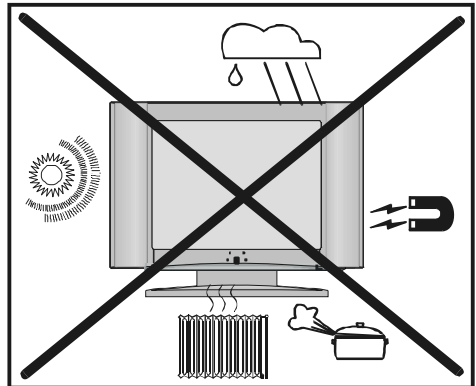
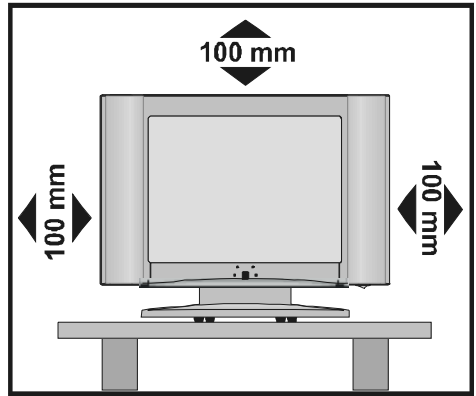
9. Naked Flame Sources

Do not place naked flame sources on the apparatus.

WARNING: When the device is not in use for a long time, disconnect from power.

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.
- Battery, including those which is heavy metal-free, should not be disposed of with household waste. Please dispose of used battery 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"

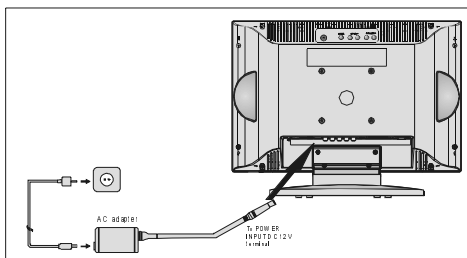
"The LCD panel is very high technology product with about a million thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product."

" The mains plug of the power supply is used as disconnect device and therefore shall remain readily operable. "

"DO use the power cord given/supplied by the manufacturer for the AC adaptor of the product".

Before Switching On Your TV

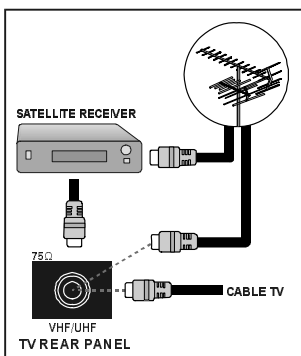
Power Connection



IMPORTANT: The TV set is designed to operate on 12 V DC. For this, an adaptor is used which gives 12V DC voltage. Connect this adaptor to a system that supplies 220-240 V 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 Aerial socket



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

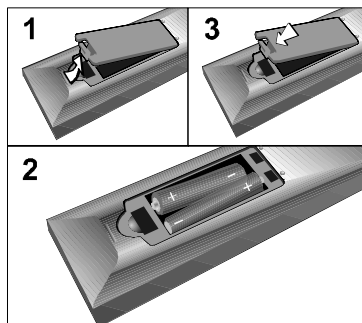
How To Connect Other Devices

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

Sockets for external connections are at the rear side of the TV. For connection of other devices via SCART refer to the manuals of the related devices.

Inserting Batteries In The Remote Control Handset

- Remove the battery cover located on the back of the handset by gently pulling upwards from the indicated part.
- Insert two AAA (R03) or equivalent type of batteries inside.
- Replace the battery cover.



NOTE: Remove the 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- Connect the power supply cord to the system. Press the "⏻" (POWER) button at the top of the TV. Then the TV switches itself to stand-by mode and the led becomes red located on the front of the TV.
- 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 "-P/Ch" or "P/Ch+" button at the top of the TV or press "-P/CH" or "P/CH+" button on the remote control, so that last switched off programme is selected.

Either way the TV will switch on and the LED becomes green.

To switch the TV off:

- Press the “” button on the remote control, so the TV will switch to stand-by mode and the **GREEN LED** will become **RED**,

or,

- Press the “” button located on the top of the TV, so the TV will switch off and the GREEN LED will turn off.

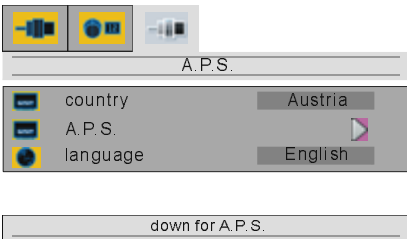
NOTE: To switch the TV off completely remove the mains plug from the socket.









Operating The TV

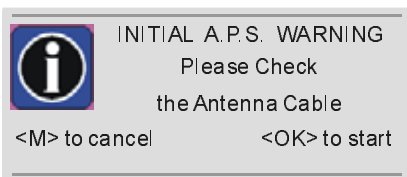
You can operate your TV using both the remote control handset and onset buttons.

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

The following menu will be displayed on the screen when you turn on your TV for the first time. A.P.S., searches and sorts all channels and stores them automatically on your TV, according to the transmission of programme systems in your area.

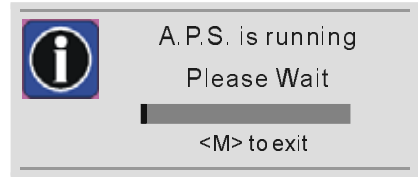


To cancel A.P.S. before starting, press the “” button. First of all choose **language** and **country** by using “” / “” and “” / “” buttons. This, will effect the sort process in A.P.S. To start aps, select **A.P.S.** by using “” / “” buttons and press the “” button. The following warning is displayed.



If you want to cancel A.P.S. function, press the “**M**” button.

If “**OK**” button is pressed, A.P.S. starts and the following warning is displayed.



After A.P.S. is finalized, Program Table will be displayed on the screen. In the Program Table you will see the programme numbers and names assigned to the programmes.

Operating with the buttons on the TV set

Volume setting and programme selection can be made by using the buttons at the control panel on the top of the TV.

Volume Setting

Press the “- **VOLUME**” button to decrease volume or the “**VOLUME +**” button to increase volume, so a volume level scale (slider) will be displayed on the screen.

Programme Selecting

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

Entering Main Menu

Press “**MENU**” button to enter Main menu. In the Main menu select submenu using “- **P/Ch**” or “**P/Ch +**” button and enter the submenu using “- **VOLUME**” or “**VOLUME +**” button.

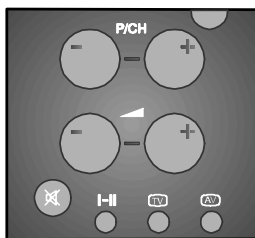
Operating With Remote Control

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 the “▲ +” button to increase volume. Press the “- ▲” button to decrease volume. A volume level scale (slider) will be displayed on the screen.



Programme Selecting

(Previous or next programme)

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

Programme Selecting (direct access):

Press digit buttons on the remote control to select programmes between 0 and 9. The TV will switch to the selected programme after a short delay.

- For a two digit program number enter the second digit after pressing the first digit within 2 seconds.

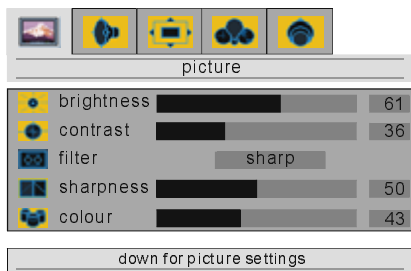
Menu System

Your TV has been designed with a menu system to provide easy manipulation of a multifunction system. Press the “M” (MENU) button to enter the menu. The “M” button has two functions; opening or closing the menu and closing the submenu and then opening its parent menu.

Press “◀” / “▶” button to select a menu title and then “▲” / “▼” button to select a menu item and “◀” / “▶” button to enter the menu item. To exit a menu press the “M” button.

picture menu

By pressing “◀” / “▶” button, select the first icon. Picture menu appears on the screen.



brightness

By pressing “▲” / “▼” button, select **brightness**. Press “▶” button to increase brightness. Press “◀” button to decrease brightness. Brightness level can be adjusted between 0 and 100.

contrast

By pressing “▲” / “▼” button, select **contrast**. Press “▶” button to increase contrast. Press “◀” button to decrease contrast. Contrast level can be adjusted between 0 and 100.

filter

By pressing “▲” / “▼” button, select **filter**. Press “◀” / “▶” button to change filter setting to **normal**, **sharp** or **sharpest**. This function allows user to choose the level of image sharpness that changes the details of picture display.

sharpness

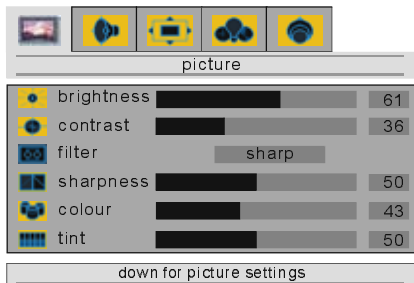
By pressing “▲” / “▼” button, select **sharpness**. Press “▶” button to increase sharpness. Press “◀” button to decrease sharpness. Sharpness level can be adjusted between 0 and 100.

colour

By pressing “▲” / “▼” button, select **colour**. Press “▶” button to increase colour. Press “◀” button to decrease colour. Colour level can be adjusted between 0 and 100.

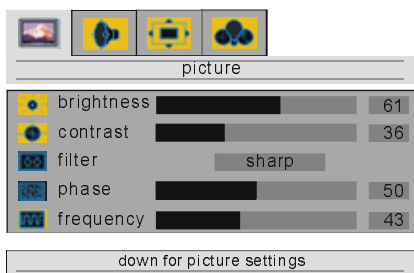
tint

This item is displayed in picture menu when the TV receives an NTSC signal. By pressing “▲” / “▼” button, select **tint**. Press “▶” button to increase tint. Press “◀” button to decrease tint. Tint level can be adjusted between 0 and 100.



When the TV is in AV mode; picture menu items (brightness, contrast, sharpness and colour) may require re-adjustment.

When PC is Connected To TV:



brightness, **contrast** and **filter** are identical to TV mode.

phase

Phase function is used to adjust the focus of the display and allows you to clear or sharpen the image of the characters.

By pressing “▲” / “▼” button, select **phase**. Press “▶” button to increase phase. Press “◀” button to decrease phase. Phase level can be adjusted between 0 and 100.

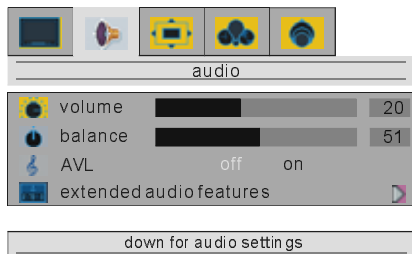
frequency

Frequency changes the horizontal width of picture to fix the picture on the screen.

By pressing “▲” / “▼” button, select **frequency**. Press “▶” button to increase frequency. Press “◀” button to decrease frequency. Frequency level can be adjusted between 0 and 100.

audio menu

By pressing “◀” / “▶” button, select the second icon. Audio menu appears on the screen.



volume

By pressing “▲” / “▼” button, select **volume**. Press “▶” button to increase volume level. Press “◀” button to decrease volume level. Volume level can be adjusted between 0 and 50.

balance

By pressing “▲” / “▼” button, select **balance**. Press “▶” button to increase balance to the right. Press “◀” button to decrease balance to the left. Balance level can be adjusted between 0 and 100.

AVL

Automatic Volume Level or AVL normalises the audio output level. This is required to compensate variations in sound level during a transmission (e.g. Commercials are normally louder than the rest of the transmission).

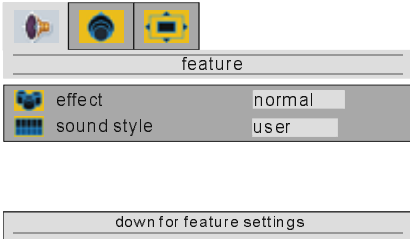
Press “▲” / “▼” button to select **AVL**. By pressing “◀” / “▶” button, set AVL **on** to activate it or **off** to deactivate it.

extended audio features

By pressing “▲” / “▼” button, select **extended audio features**. Press “▶” button to enter sub-menus. Extended audio features menu has the following sub-menus:

feature menu

By pressing “◀” / “▶” button, select the first icon. Feature menu appears on the screen.



effect

This feature turns on or off the surround effect.

By pressing “▲” / “▼” button, select **effect**. Press “◀” or “▶” button to select Normal or Extended.

Extended effect mode is used to get deep sound impression from loudspeakers.

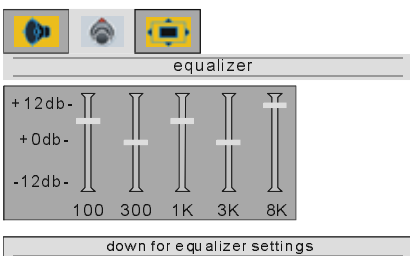
sound style

By pressing “▲” / “▼” button, select **sound style**. Press “◀” or “▶” button to change sound style setting. The available styles are: Theatre, Music, Voice and User.

A sound style consists of equalizer settings.

equalizer menu

By pressing “◀” / “▶” button, select the second icon. Equalizer menu appears on the screen.

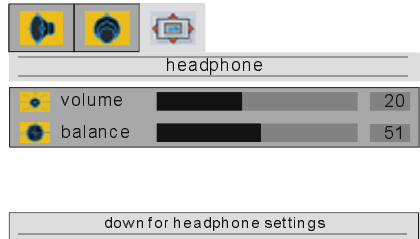


Press “▼” button to select the first frequency band. Press “◀” / “▶” button to select the other frequency bands. Selected band can be adjusted by pressing “▲” / “▼” button.

Press “◀” button on the first band to exit the equalizer menu.

headphone menu

By pressing “▶” button, select the third icon. Headphone menu appears on the screen.



volume

By pressing “▲” / “▼” button, select **volume**. Press “▶” button to increase volume level. Press “◀” button to decrease volume level. Volume level can be adjusted between 0 and 50.

balance

By pressing “▲” / “▼” button, select **balance**. Press “▶” button to increase balance to the right. Press “◀” button to decrease balance to the left. Balance level can be adjusted between 0 and 100.

window menu

By pressing “◀” / “▶” button, select the third icon. Window menu appears on the screen.

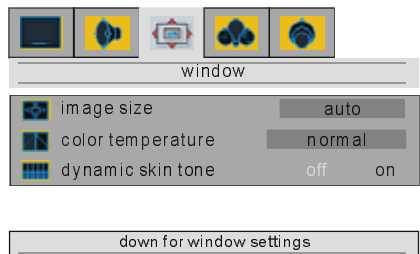



image size

Press “▲” / “▼” button to select **image size**. By pressing “◀” / “▶” button, you can change image size to **wide**, **auto** and **fill all**. You can enter image size directly by pressing the “” button.

colour temperature

You can enter colour temperature directly by pressing “PP” button.

This feature is used to change the colour temperature.

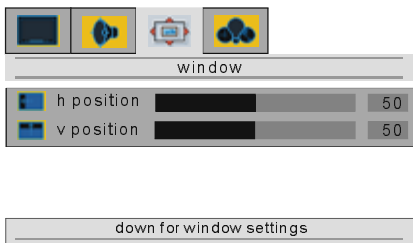
Press “▲” / “▼” button, to select **colour temperature**. By pressing “◀” / “▶” button, you can select one of these options: **Normal**, **Warm** and **Cool**.

dynamic skin tone

Dynamic skin tone effect corrects the hue of colours that matches to skin tones.

Press “▲” / “▼” button to select **dynamic skin tone**. By pressing “◀” / “▶” button, turn skin tone **ON/OFF**.

When PC is Connected To TV:



h position

By pressing “▲” / “▼” button, select **h position**. Press “▶” button to slide screen to the left. Press “◀” button to slide screen to the right. **h position** can be adjusted between 0 and 100.

v position

By pressing “▲” / “▼” button, select **v position**. Press “▶” button to slide screen up. Press “◀” button to slide screen down. v

position can be adjusted between 0 and 100.

options menu

By pressing “◀” / “▶” button, select the fourth icon. Options menu appears on the screen.



menu background

By pressing “▲” / “▼” button, select **menu background**. You can change menu background to **translucent** or **opaque** by pressing “◀” / “▶” button.

language

By pressing “▲” / “▼” button, select **language**. Press “◀” / “▶” button to select the menu language you want.

room lighting

Press “▲” / “▼” button to select **room lighting**. By pressing “◀” / “▶” button, you can select one of these options: **Normal**, **Bright** and **Movie**.

sleep timer

By pressing “▲” / “▼” button, select **sleep timer**. You can set the sleep time to **0**, **5**, **10**, **15**, ..., **115** or **120 minutes** by pressing “◀” / “▶” button. The sleep timer is used to turn the TV off after a pre-defined period.

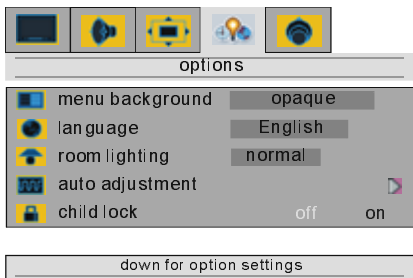
child lock

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

By pressing “▲” / “▼” button, select child lock. The child lock feature can be set to either **on** or **off** by pressing “◀” or “▶” button.

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 control panel buttons except "⏻" button at the top of the TV will not work.

When PC is Connected To TV:



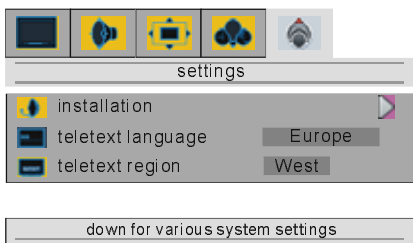
menu background, language and child lock is identical to TV mode except **room lighting** which should be set to normal when PC mode is enabled.

auto adjustment

Press "▲" / "▼" button to select **auto adjustment**. By pressing "▶" button, auto adjustment can be made. This function fits the image on the screen horizontally and vertically and adjusts the appropriate phase and frequency.

settings menu

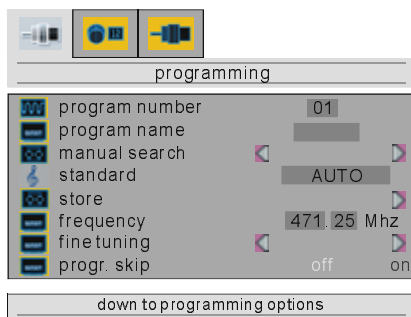
By pressing "◀" / "▶" button, select the fifth icon. Settings menu appears on the screen.



Installation menu

By pressing "▲" / "▼" button, select installation and press "▶" button. Installation menu appears on the screen.

programming



program number

By pressing "▲" / "▼" button, select **program number**. Press "▶" button to select the first or the second digit. Then press digit buttons on remote control to enter the programme number you want. Press "◀" button to exit.

There are 100 program storage between 0 and 99.

program name

By pressing "▲" / "▼" button, select **program name**. Program name has a name string with 5 characters. Press "▶" button to select a character and "▲" / "▼" button to change it. After the program name is entered, press "◀" button to exit.

manual search

By pressing "▲" / "▼" button, select **manual search**. Press "◀" or "▶" button to start program searching manually. Press "M" button to cancel manual search process.

Note: When Standard is selected as Auto, manual search does not find SECAM L/L' channels. Therefore L/L' has to be selected in the Standard menu for SECAM L/L' channels.

standard

Press "▲" / "▼" button to select **standard**. By pressing "◀" / "▶" button, you can change the standard to **AUTO, BG, I, DK** or **L/L'**. When **AUTO** is selected, the sound standard is adjusted automatically.

store

Press “▲” / “▼” button to select **store**. By pressing “▶” button, you can store the program settings.

You can also store a setting by pressing “OK” button on the selected setting.

“STORED” is displayed on screen when a program is stored.

frequency

By pressing “▲” / “▼” button, select **frequency**. Press “▶” button to select the first digit and digit buttons on remote control to enter the frequency you want. After the frequency is adjusted, press “◀” button to exit.

fine tuning

By pressing “▲” / “▼” button, select **fine tuning**. Press “◀” / “▶” button to change the frequency value.

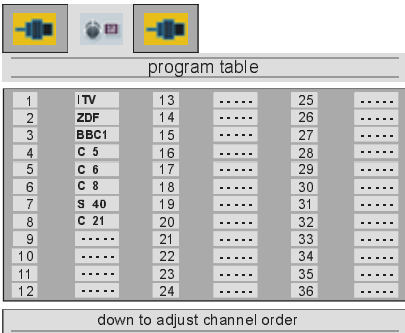
program skip

Use this feature after you run A.P.S. to skip unwanted programs.

By pressing “▲” / “▼” button, select **program skip**. Press “◀” / “▶” button to select **on** or **off**. When **on** is selected, current program cannot be reached by pressing “-P/CH” or “P/CH+” button. But digit button can be used to reach it.

program table

By pressing “◀” / “▶” button, select the second icon. Program table appears on the screen.



program table					
1	TV	13	.....	25	.....
2	ZDF	14	.....	26	.....
3	BBC1	15	.....	27	.....
4	C 5	16	.....	28	.....
5	C 6	17	.....	29	.....
6	C 8	18	.....	30	.....
7	S 40	19	.....	31	.....
8	C 21	20	.....	32	.....
9	.....	21	.....	33	.....
10	.....	22	.....	34	.....
11	.....	23	.....	35	.....
12	.....	24	.....	36	.....

down to adjust channel order

Program table shows the programme numbers and the names assigned to the programmes.

Here you can adjust the channel order by moving or deleting the channels.

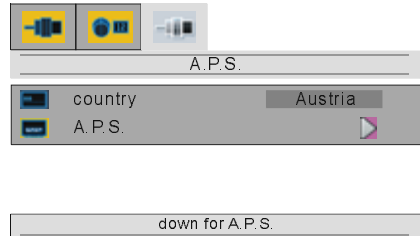
First of all press the “▼” button.

Using the GREEN button you can move a programme into another programme's location. Press the direction buttons to select a programme and press the GREEN button. Then select another programme and press the GREEN button again. The first selected programme moves into the location of the second selected programme.

Using the RED button you can delete any programme you want.

A.P.S. (Auto Programming System)

By pressing “▶” button, select the third icon. A.P.S. menu appears on the screen.

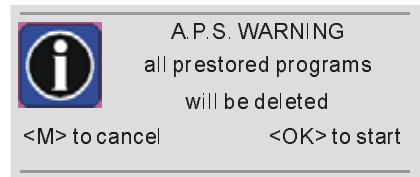


country

By pressing “▲” / “▼” button, select **country**. Press “◀” / “▶” button to select the country where you are.

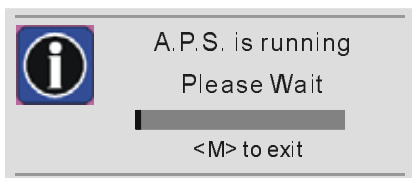
A.P.S.

By pressing “▲” / “▼” button, select **A.P.S.** When “▶” button is pressed, the following warning is displayed.



If you want to cancel A.P.S. function, press the “M” button.

If “OK” button is pressed, A.P.S. starts and the following warning is displayed.



If you press the “M” button, A.P.S. function stops and Program table appears on the screen.

If you wait till A.P.S. is finalized, Program table is displayed with the programmes found and located.

teletext language

By pressing “▲” / “▼” button in the Settings menu, select **teletext language**. There are three options to select : Europe, Cyrillic and Greek.

TEXT LANGUAGE	TEXT REGION	LANGUAGE
Cyrillic	East	POLISH GERMAN SLOVENIAN CZECH ROMANIAN
		GERMAN RUSSIAN LATVIAN
Greek	East / West	ENGLISH GERMAN ITALIAN FRENCH SLOVENIAN GREEK TURKISH
		POLISH GERMAN ESTONIAN SERBIAN CROTIAN CZECH REP./SLOVAK ROMANIAN
Europe	West	GERMAN ENGLISH SWEDISH ITALIAN SPAIN TURKISH PORTUGUESE DUTCH

teletext region

By pressing “▲” / “▼” button in the Settings menu, select **teletext region**. There are two options to select : West and East.

Other Features

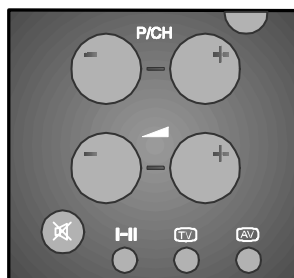
TV Status

Programme Number, Programme Name and Sound Indicator are displayed on screen after programme change for 3 seconds.

P 01 Programme Number

PR_01 Programme Name (5 characters)

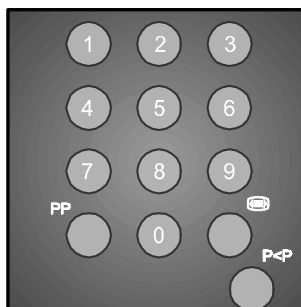
These OSD's are displayed when a new programme is entered by digit button, by pressing the “P<P”, “TV”, “i” buttons or the “-P/CH” / “P/CH+” buttons.



Previous Programme

• Pressing “P<P” (Previous Programme) button consecutively allows to swap between the last two programmes.

For example, select programme 8, then select programme 2. Now, if you press the “P<P” button, programme 8 will be displayed. If you press the same button again, programme 2 will be displayed and so on.



Sound Indicator

"I-II" button is used to select **Mono**, **Stereo**, **Dual I** or **Dual II**.

Mono

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

Stereo

In **Stereo** broadcast.

Dual I

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

Dual II

If **Dual II** selected by Remote Control.

Mute Indicator

It is placed in the upper right side of the screen when enabled.



To cancel mute, there are two alternatives, the first one is pressing the "X" button, thus the volume is set to the preceding value, and the second one is increasing the volume level, thus it starts from minimum level to increase.

AV Modes

By pressing the "AV" button, you can switch your TV to AV modes (except being in Teletext). Pressing this button consecutively will switch the TV in one of the optional AV modes: **AV1**, **RGB1**, **AV2**, **SVHS** and **PC**.

RGB1 mode is supported from AV1.

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

PC Mode

Press "PC" button to switch directly to PC mode.

Press "TV", "AV", "-P/CH", "P/CH+" or digit buttons to quit the PC mode.

Teletext

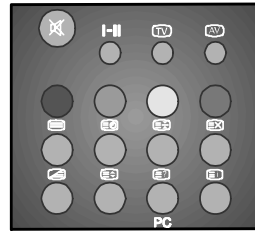
Teletext is an information system that displays text on your TV screen. Using the Teletext information system you can view a page of information on a subject that is available in the list of contents (index).

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

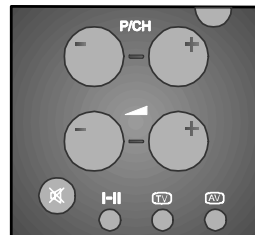
- Select a TV station where Teletext is being transmitted.
- Press the "☰" button. Usually the list of contents (index) are displayed on the screen.



To Select A Page Of Teletext

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

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



- Press the “**P/CH +**” button to move the Teletext screen forward one page at a time.
- Press the “**- P/CH**” 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 the “**Ⓔ**” button.

To Select Teletext With A TV Programme

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

To Select Double Height Text

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

To Reveal “Concealed” Information

- Pressing the “**Ⓔ**” button once will reveal answers on a quiz or games page.
- Pressing the “**Ⓔ**” 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 the “**Ⓔ**” button to stop the automatic page change.
- Press the “**Ⓔ**” 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 the “**Ⓔ**” 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 the “**Ⓔ**” 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 the “**Ⓔ**” button to display the selected Teletext page.

Fasttext

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

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

For Fasttext


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

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

To Exit Teletext

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

To Display The Time

- While watching a TV programme with Teletext transmission press the “

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 rear side of the TV.

PC Sound Connection

Connect the audio output (line out) of your PC to the audio inputs of your TV (see E and F on the next page) with a stereo sound cable.

Via The SCART

Your TV has one Scart socket. If you want to connect peripherals (e.g. video, decoder, etc.) which have Scarts to the TV, use Scart input.

If an external device is connected via the Scart socket, the TV will be switched to AV mode automatically. If the external device is connected to SCART input and the signal is RGB1, select RGB1 by pressing the “

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 Scart, you should connect it to the Aerial input of the TV.

If the VCR is connected via aerial input it is suggested that you use 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 the TV with a SCART lead to **SCART input**.

TV And Video Recorder


- Connect the aerial cables.

Better picture quality can be obtained if you also connect a SCART lead to **SCART socket**.

Playback NTSC

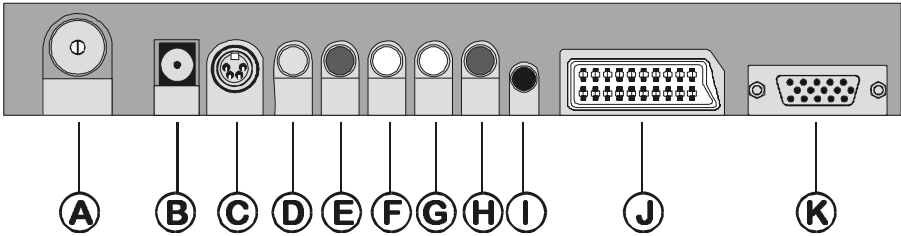
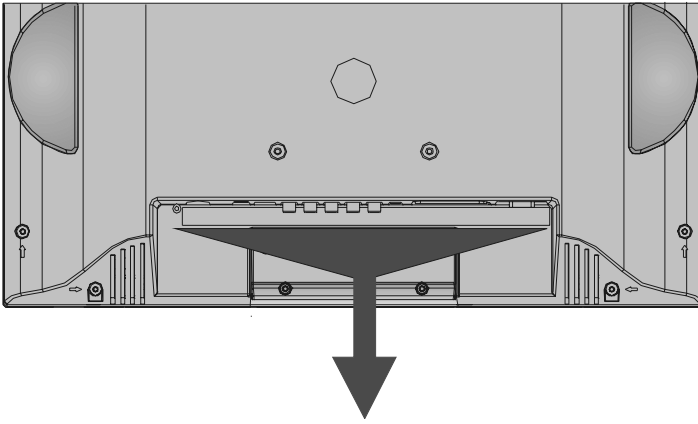
To use this option you can;

- Connect an NTSC VCR player to Scart at the rear side of the TV.
- Connect an NTSC VCR player to RCA Jacks at the rear side of the TV.

Then, press the “

- 20 -

Peripheral Equipment Connections



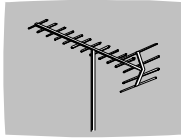
- | | |
|---|--|
| <p>Ⓐ AERIAL</p> <p>Ⓑ DC 12 V ⊖ — Ⓒ — ⊕</p> <p>Ⓒ S-VIDEO INPUT</p> <p>Ⓓ VIDEO INPUT ————</p> <p>Ⓔ AUDIO INPUT (R) ————</p> <p>Ⓕ AUDIO INPUT (L) ————</p> | <p>Ⓖ LINE OUT (R)</p> <p>Ⓗ LINE OUT (L)</p> <p>Ⓘ HEADPHONE</p> <p>⓵ SCART SOCKET (AV-1)</p> <p>Ⓚ PC INPUT</p> |
|---|--|

Aerial Connections

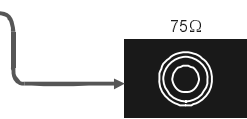
Outdoor Aerial Connections

VHF Aerial

Method 1



Round 75 ohm coaxial cable



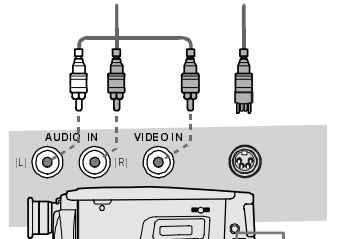
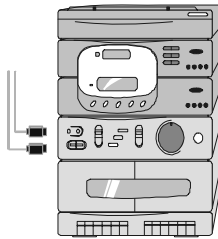
75Ω
VHF/UHF
Rear of TV

Connect Peripheral Equipment

HEADPHONE

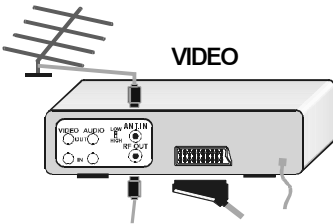


AUDIO



CAMCORDER

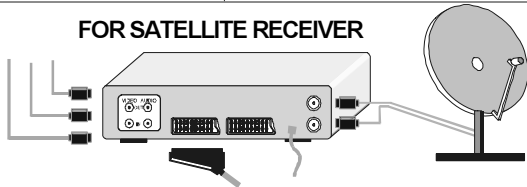
VIDEO



DECODER

Aerial

FOR SATELLITE RECEIVER



Search For And Store The Test Signal Of The Video Recorder

- Unplug the aerial cable from the aerial socket “**Aerial**” of your video recorder.
 - Switch on your TV and put the video recorder on the test signal. (See the booklet for your video recorder.)
 - Enter the **Installation** menu in **settings** menu. Enter the **Programming** menu in **Installation** menu and select **manual search**.
 - Search for the test signal of your video recorder in the same way as you searched for and stored the TV signals. Store the test signal under programme number 0.
- Replace the aerial cable in the aerial socket “**Aerial**” of your video recorder once you have stored the test signal.

Camera And Camcorder

To Connect To AV-2 Input

Connect your camera or camcorder to AV-2 input at the rear side of the TV.

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

To Connect To S-VHS Input

Connect your camera or camcorder S-VHS input at the rear side of the TV.

- Connect your equipment to the TV via S-VHS input and audio inputs of AV-2 inputs by using S-VHS cables.

Connect The Decoder To The Video Recorder

Some video recorders have a special SCART socket for decoder.

- Connect a SCART lead to the SCART socket of your decoder and to the special SCART socket of your video recorder. Refer to the booklet of your video recorder.
- To connect your video recorder to the TV, refer to the TV and Video Recorder section.

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

Connecting Headphones

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

PC INPUT TYPICAL DISPLAY MODES

The display has a maximum resolution of 1024 x 768, vertical sync. frequency range of 50-72 Hz and a horizontal sync. frequency range of 30-57 KHz.

The following table is an illustration of some of the typical video display modes.

<i>Mode</i>	<i>Resolution</i>		<i>Frequency</i>	
	<i>Horizontal</i>	<i>Vertical</i>	<i>Hor. (kHz)</i>	<i>Ver. (Hz)</i>
1	640	480	31.5	60
2	640	480	37.9	72
3	800	600	35.2	56
4	800	600	37.9	60
5	800	600	48.1	72
6	1024	768	48.4	60
7	1024	768	56.5	70

The native resolution of the TFT-LCD Panel is 1024 x 768. Therefore using Mode 6 is advised to get the best PC input display quality.

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 buttons on the remote control? Try once more.

Sound

You can not hear any sound. Did you perhaps interrupt the sound, pressing the "M" 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 **audio** 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 on the top of the TV.

Have you selected the wrong menu? Press the "TV" button to return to TV mode or press the "M" 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 SECAM B/G D/K K' I/I' L/L'

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

220-240 V AC, 50 Hz.

AUDIO

Nicam Stereo

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

2 x 3

POWER CONSUMPTION (W) (max.)

38 W

< 3 W (Stand-by)

PANEL

4:3 display, 15" Screen Size

Dimensions (WxHxD)

W 462 mm.

H 355 mm. with stand

D 170 mm. with stand

76 mm. without stand

Weight 5.6 Kg.

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.

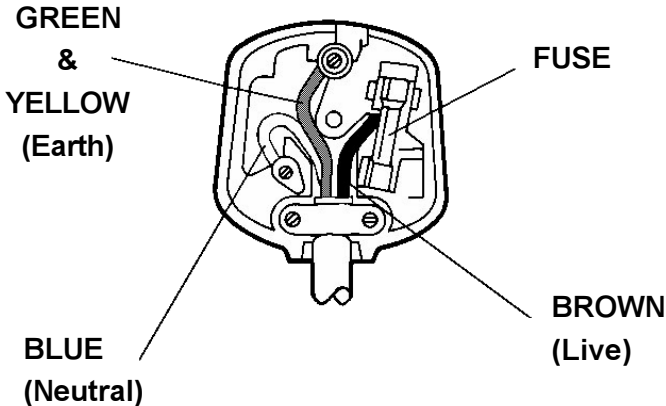
IN ALL CASES OF DIFFICULTY PLEASE CONSULT YOUR HITACHI DEALER

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 the 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 green and yellow must be connected to the terminal which is marked with the letter E, or by the earth symbol, or coloured green or green and yellow.

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

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

For continued protection against risk of fire, replace only with same type and rating of fuse (ASTA approved 10A 250VAC fuse).

(If approved by the qualified TV service personel, 13A fuse may also be used)

If your product is fitted with a moulded plug which requires replacement please cut off and dispose of safely, then rewire as shown above.

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.

HITACHI

Inspire the Next

Hitachi Ltd.

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