

HITACHI

Instructions for use

GB

C14D24



HITACHI

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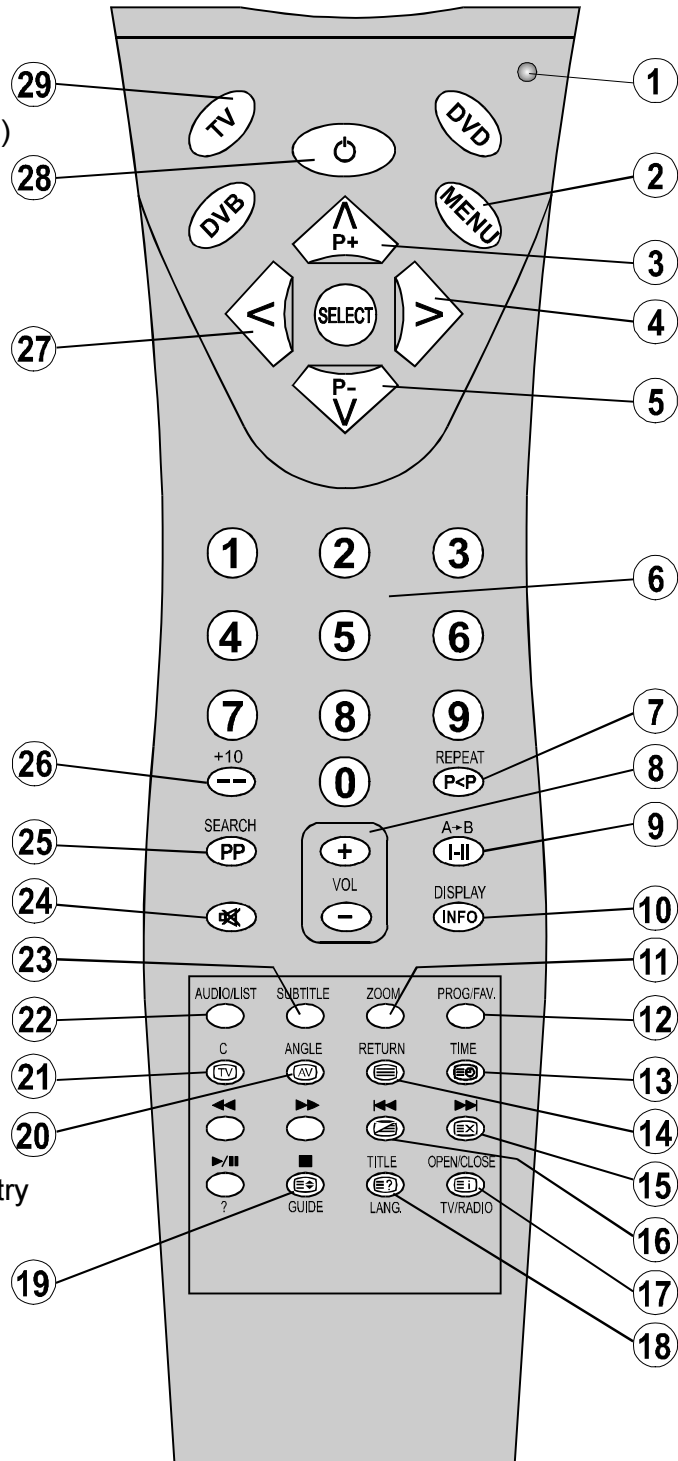
HOW TO WATCH TV

When TV set is turned on press **TV button** on the Remote Control.

Remote Control Buttons

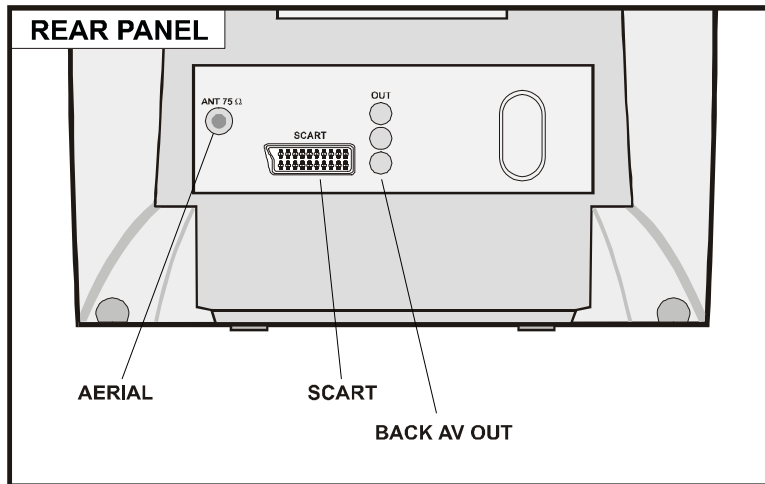
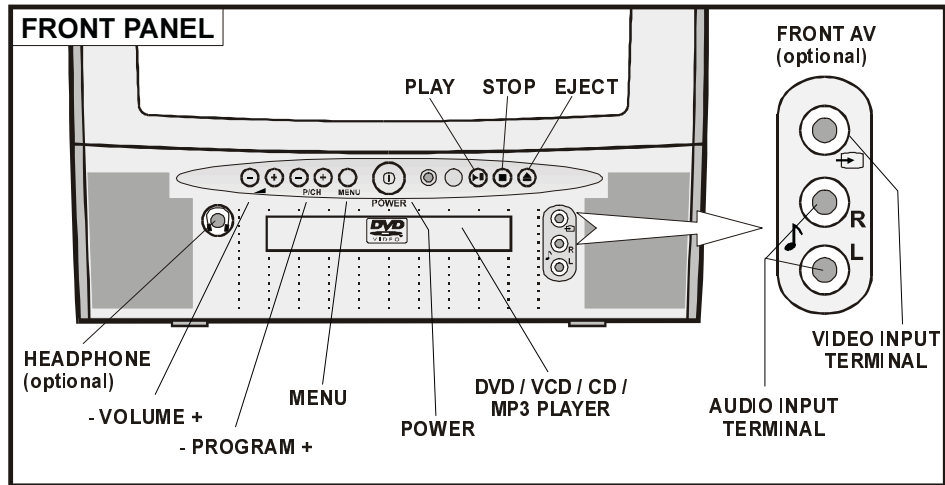
TV MODE

- ① Led
- ② **MENU** = Menu
- ③ Δ = Programme Up (Cursor Up)
- ④ \triangleright = Cursor Right
- ⑤ ∇ = Programme Down (Cursor Down)
- ⑥ **0 - 9** = Direct Program
- ⑦ **P<P** = Previous Programme
- ⑧ **-VOL / VOL +** = Volume - / Volume +
- ⑨ **I-II** = No Function
- ⑩ **INFO** = Info
- ⑪ **Yellow (FEATURE)** = Feature Menu
- ⑫ **Blue (INSTALL)** = Installation Menu
- ⑬ = Time
- ⑭ = Teletext/Hold
- ⑮ = Update
- ⑯ = Mix
- ⑰ = Index Page
- ⑱ = Reveal
- ⑲ = Expand
- ⑳ = External Source (DVD, AV-1, F-AV, RGB)
- ㉑ = TV Menu
- ㉒ **Red (SOUND)** = Sound Menu
- ㉓ **Green (PICTURE)** = Picture Menu
- ㉔ = Mute
- ㉕ **PP** = Recall Personal Preference
- ㉖ **--** = Double Digit Program Number Entry
- ㉗ \triangleleft = Cursor Left
- ㉘ = Stand By
- ㉙ **TV** = TV Mode

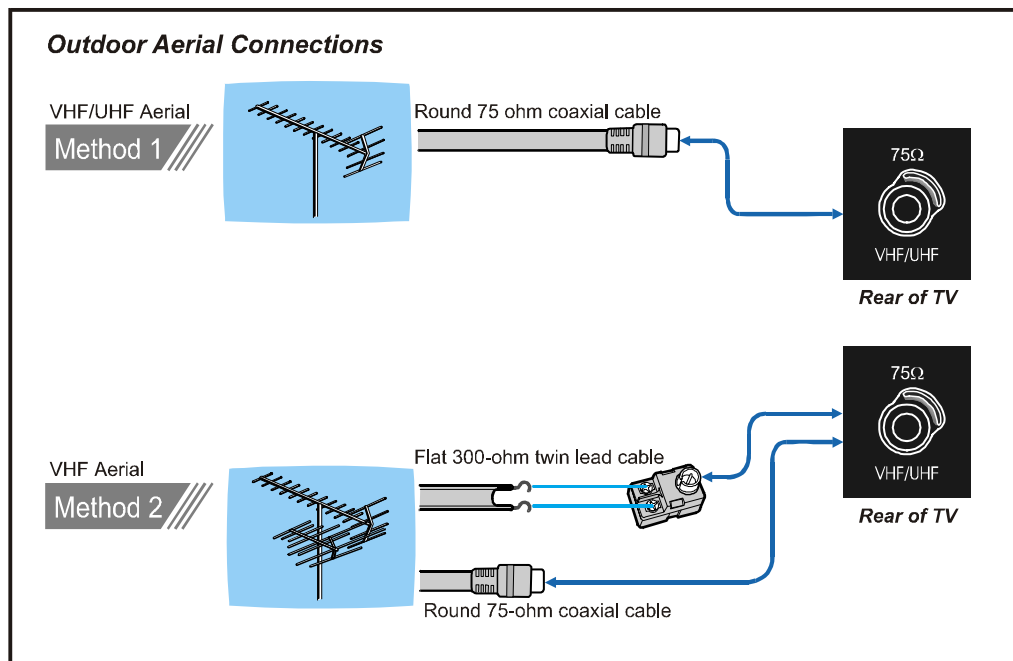


N.B. To be able to use TV functions by using remote controller first of all press TV button on the remote controller.

Control Panel Buttons

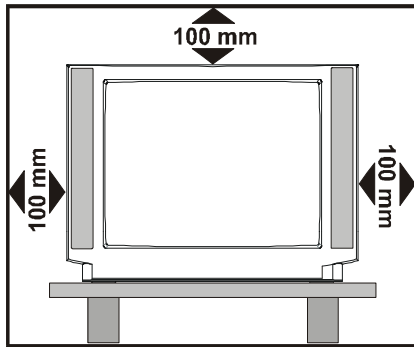


Aerial Connections



Preparation

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



Use this apparatus in tropical and/or moderate climates.

Features

- It is a remote controlled colour television.
- 100 programmes from VHF, UHF bands or cable channels can be preset.
- It can tune cable channels.
- Controlling the TV is very easy by its menu driven system.
- It has Euroconnector socket for external devices (such as computer, video, video games, audio set, etc.)
- Front AV In / Back AV Out.
- Full function Teletext (Fastext).
- A.P.S. (Automatic Programming System).
- All programmes can be named.
- Programme swapping between last watched two programmes.
- Forward or backward automatic tuning.
- Sleep timer.
- Automatic sound mute when no transmission.
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to stand-by mode.
- WSS (Wide Screen Signaling).
- NTSC Playback.
- DVD / VCD / CD / CD-R / CD-RW / MP3 / JPEG playback

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 **230-240V AC, 50 Hz.** outlet. Ensure you select the correct voltage setting for your convenience.

2. Power Cord

The power supply cord should be placed so that 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

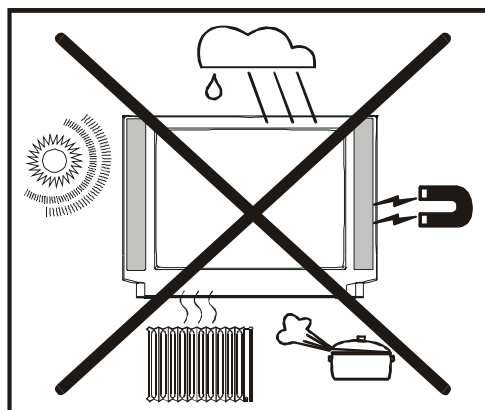
Do not place naked flame sources on the apparatus.

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



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CAUTION

RISK OF ELECTRIC SHOCK



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



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

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

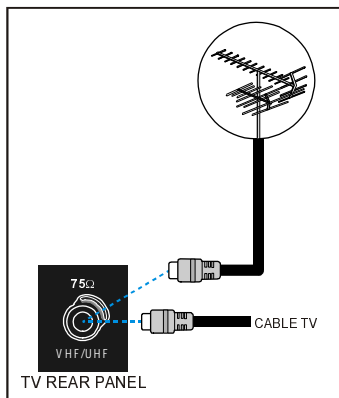
Before Switching on your TV

Power connection

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

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

Connections to the Aerial socket



- Connect the aerial or cable TV plug to the Aerial socket located at the back of the TV. **If you are also connecting a VCR, plug the aerial cable into the aerial input socket on the VCR and then connect the RF output cable from the RF out socket on the VCR to the TV aerial socket. See Page 20 for further details.**

How to connect other devices

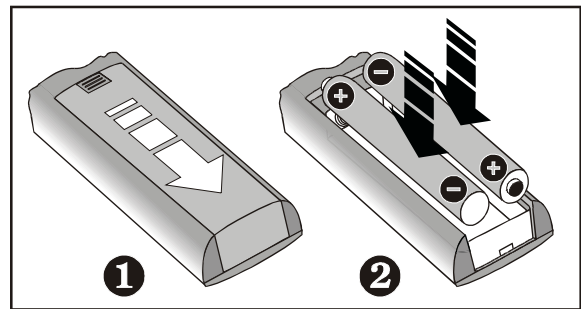
IMPORTANT: Switch off the TV before connecting any external device.

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. **The TV switches itself to standby mode and the RED LED located below the TV illuminates.**
- 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** the TV will switch on and the RED LED will turn GREEN.

To switch the TV off

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

or,

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

N.B. Ensure that the DVD tray is closed before you turn the TV off or the tray will stay out.

Operating the TV

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

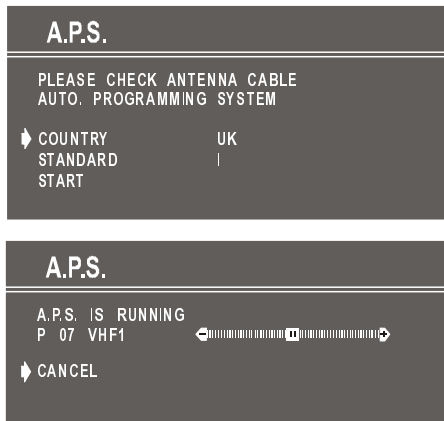
N.B. To be able to use TV functions by using remote controller first of all press TV button on the remote controller.

A.P.S. (Automatic Programming System)

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

To cancel APS before starting, press "TV" button. First of all choose the "COUNTRY". This, will effect the sort process in APS. To

select "START" use "P+" or "P-" button and press "<" or ">" button. To cancel APS during running press "<" or ">" button.



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

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

Operating with the buttons on the TV set

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

Volume Setting

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

Programme Selecting

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

Entering Main Menu

- Press "MENU" button to enter Main menu. In the Main menu select sub-menu using "- P/CH" or "P/CH +" button and enter the sub-menu using "▲ +" or "- ▲" button. For more information see Menu System on [page 10](#).

Operating with Remote Control

N.B. To be able to use TV functions by using remote controller first of all press TV button on the remote controller.

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.

Remote Control Functions

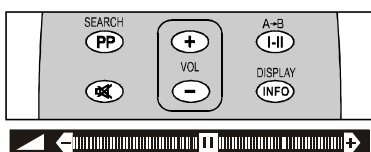
Your remote control is designed to control your TV and DVD player together. In order to access the TV functions (with white indicators on the remote control), first of all press to "TV" button. All the TV functions will then be available to use. In the same way to con-

control the DVD player, firstly you must press the "DVD" button. After this the DVD functions will be available for use. To access the TV functions again you must press the "TV" button once more.

The "DVB" button has no function in your TV_DVD.

Volume Setting

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



Programme Selecting

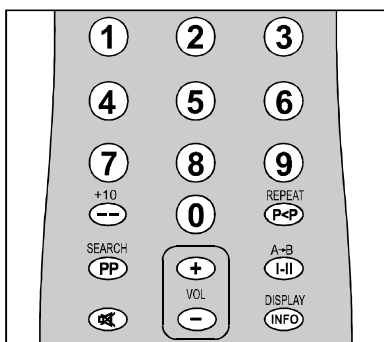
(Previous or next programme)

- Press "P_V⁻" button to select the previous programme.
- Press "P_{p+}[^]" button to select the next programme.

Programme Selecting (direct access):

Press digit buttons on the remote control handset to select programmes between 0 and 9. TV will switch to the selected programme. To select programmes between 10 - 99, you must use the double digit button "- -".

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

Programme Swapping

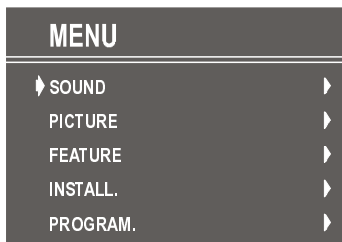
- Press "P<P" (programme swap) button to select the last selected programme. This button provides swapping between last two selected programmes. For example, select programme 8, then select programme 2. Now, if you press "P<P" button, programme 8 will be selected. If you press the same button again, programme 2 will be selected and so on.

Menu System

Your TV has been designed with a menu system, to provide an easy manipulation of a multi-function system. The TV is controlled by choosing the commands, which are displayed on the screen.

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

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



To select a sub-menu use " Δ_{P+} " or " ∇_{P-} " button, and press "<" or ">" button. Each option can also be selected with the coloured button and "INFO" button on the remote control.

MAIN MENU

The menu system is described below.

For the quickest way to enter the menus press:

"MENU" Button,	Main Menu.
Red Button,	Sound Menu.
Green Button,	Picture Menu.
Yellow Button,	Feature Menu.
Blue Button,	Install Menu.
"INFO" Button,	Programme Menu.

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

Sound Menu

To change sound settings

- Enter the Sound Menu directly, pressing the Red button or,
- As you enter the main menu, sound will be the first selected option. In the main menu,

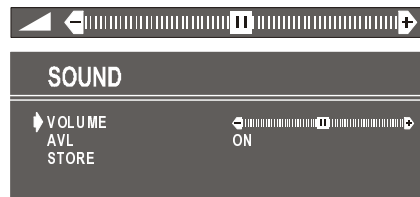
select **SOUND** using " Δ_{P+} " or " ∇_{P-} " button, then enter the sound menu pressing "<" or ">" button.

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 "**VOL+**" (to increase) or "**-VOL**" (to decrease) button.



Setting AVL

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



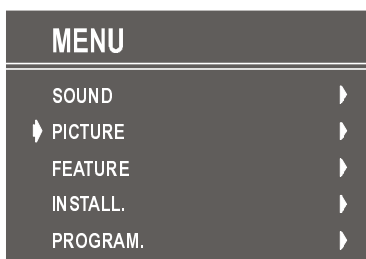
To Store the Settings

- Press "<" or ">" button on "**STORE**" option to store Sound menu settings.



Picture Menu

- To enter the Picture menu directly, press the "**GREEN**" button, or
- Press "**MENU**" button, now you are in Main menu. In the Main menu, select "**PICTURE**" using " Δ_{P+} " or " ∇_{P-} " button, then enter the Picture menu pressing "<" or ">" button.



Setting Brightness

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



Setting Contrast

- Using “ Δ_{P+} ” or “ ∇_{P-} ” button select Contrast.
- Press “>” button to increase contrast level.
- Press “<” button to decrease contrast level.



Setting Colour

- Using “ Δ_{P+} ” or “ ∇_{P-} ” button select Colour.
- Press “>” button to increase colour level.
- Press “<” button to decrease colour level.



Setting Sharpness

- Using “ Δ_{P+} ” or “ ∇_{P-} ” button select Sharpness.
- Press “>” button to increase peaking level.

- Press “<” button to decrease peaking level.



Setting Hue

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

- Using “ Δ_{P+} ” or “ ∇_{P-} ” button select Hue.
- Press “>” button to increase hue level.
- Press “<” button to decrease hue level.

Center value is indicated with the two reciprocal arrows.



Mode

This item is used to change the picture size.

By pressing “<” or “>” button you may choose one off three options. These are, “4:3”, “16:9” and “AUTO”.

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

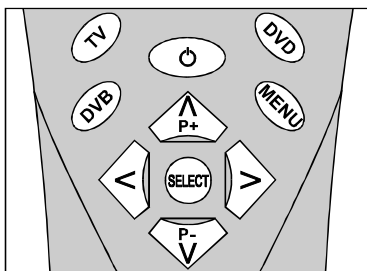
WSS feature is only used in TV or F-AV mode. For the Picture Mode selection in AV-

1 the pin 8 (of Scart) value is used. In RGB mode the Picture Mode can be 4:3 or 16:9 (Auto mode is not available.).



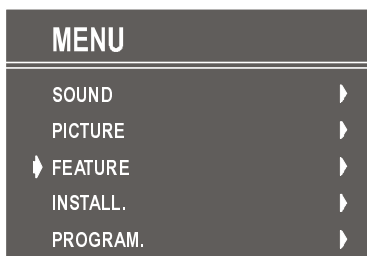
To Store the Settings

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



Feature Menu

- To enter the Feature menu directly, press the “**YELLOW**” button, or
- Press “**MENU**” button, now you are in Main menu. In the Main menu, select **FEATURE** using “**P+**” or “**P-**” button. Then enter the Feature menu pressing “<” or “>” button.



Sleep Timer

As you enter the Feature menu, **SLEEP TIMER** will be the first selected option. Use “<” or “>” button to change the Sleep Timer

values between **OFF, 0:15:00, 0:30:00, 0:45:00, 1:00:00, 1:15:00, 1:30:00, 1:45:00 and 2:00:00.**

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



When there is only one minute left of the timer countdown, it will be displayed automatically on the upper right of the screen and will stay there until the countdown has finished. The TV will then go to standby.

Child Lock

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

This feature does not lock DVD buttons at the front panel.

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, TV function buttons on the front panel (except the Switch On/Off button) will not work.**



Selecting Menu Language

Menu language can be chosen by pressing “<” or “>” button on **LANGUAGE** item.

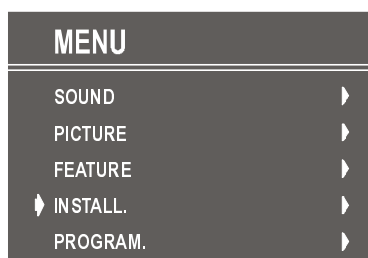


To Store Settings

In Feature menu all settings are stored automatically.

Install Menu

- To enter the Install menu directly, press the **BLUE** button, or
- Press "**MENU**" button, now you are in Main menu. In the Main menu, select "**INSTALL.**" using "**▲**" or "**▼**" button. Then enter the Install menu pressing "**<**" or "**>**" button.



Selecting Programme

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

Selecting Band

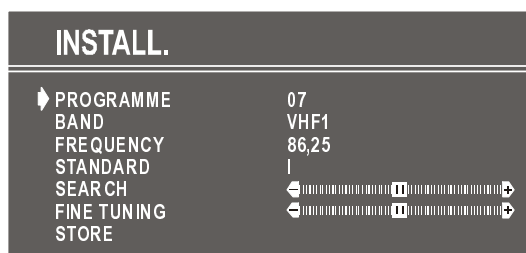
BAND, can be chosen either,

- VHF1, VHF3 or UHF by "**<**" or "**>**" button.

Selecting Frequency

The frequency value is,

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



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

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

changing Fine Tuning changes the decimal part.

Selecting Search

To start the search process, press "**>**" button for forward search or "**<**" button for backward search. **SEARCH** item blinks during search process, since the process is stopped or signal is found. During search process the semi-transparent menu background becomes blue. To stop the search process "**<**" or "**>**" button must be pressed again.

Selecting Fine Tuning

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

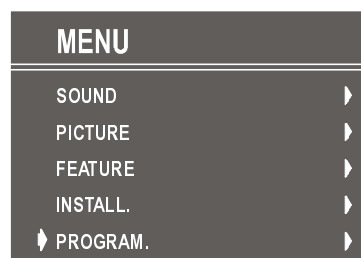
Use "**<**" or "**>**" button on **FINE TUNING** item, until getting the best image on the screen.

To Store Settings

Press "**<**" or "**>**" button on **STORE** option to store Install menu settings.

Programme Menu

- To enter Programme menu directly, press the "**INFO**" button, or
- Press "**MENU**" button, now you are in Main menu. In the Main menu, select "**PROGRAM.**" using "**▲**" or "**▼**" button. Then enter the Programme menu pressing "**<**" or "**>**" button.



By moving the cursor in 4 directions, 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, “ Δ_{P+} ” or “ ∇_{P-} ” buttons are working like “**Direction Up**” and “**Direction Down**”.

By cursor action, programme selection is done automatically. Selected programme is displayed with “**CYAN**” characters. In order to select programme is also possible by using digit or double-digit button. In this way programme selection is **automatic** and after selection the selected programme is displayed with cyan characters. The TV Status is changed by the programme selection too. When using double-digit button in order to select a programme, the Programme Number in TV Status OSD is displayed in “**P --**” form, and by pressing digit buttons they are displayed.

Programme Number is between 00 and 99. Programme Name has a name string with 5 characters. After autostore process the Programme Names are set to:

- Frequency search “**PR01**” (programme number),

At the bottom of the menu there is a programme sort functions section. Each function is activated by **colour** button (seen above). **NAME** allows changing the programme name. By **DELETE** you can delete programmes that you **have selected**. **INSERT** section is for inserting programmes into another programme spaces. By selecting **AUTOSTORE** section, A.P.S. menu will be available.

To change the name of a decided programme, that programme is selected and pressed to the **RED** button (**NAME**). The first letter begins to blank on the selected name.

To change that letter “ Δ_{P+} ” or “ ∇_{P-} ” 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 PR01	11 ----	21 ----
02 PR02	12 ----	22 ----
03 PR03	13 ----	23 ----
04 PR04	14 ----	24 ----
05 PR05	15 ----	25 ----
06 PR06	16 ----	26 ----
07 ----	17 ----	27 ----
08 ----	18 ----	28 ----
09 ----	19 ----	29 ----
10 ----	20 ----	30 ----

■ NAME	■ DELETE
■ INSERT	■ AUTOSTORE

After changing the name by pressing the **RED** button (**STORE**) it is stored. After activating the name process the “**INSERT**”, “**DELETE**” and “**AUTOSTORE**” processes will be inactive and “**CANCEL**” option will be valid. This option cancels the name process, if the new name do not want to be stored.

■ STORE	■
■	■ CANCEL

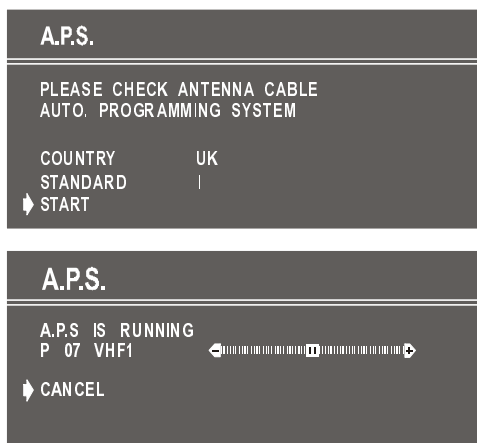
When the **GREEN** button is pressed (**INSERT**), “**NAME**”, “**AUTOSTORE**” and “**DELETE**” functions are erased, the selected programme (A) is displayed with green characters. From now on, the automatic selection is **cancelled**. Cursors moves are indicated with “**CYAN**” characters. With navigation buttons, the decided program space (B) can be selected and by pressing the green button again inserting is occurred to that space (B).

“**CANCEL**” function cancels the activated “**INSERT**” process.

For “**DELETE**” process **press the yellow** 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.

To enter Autostore menu, press the blue button. To learn the features of this function see “**A.P.S.**” below.

APS, searches and stores all channels automatically on your TV, according to the transmission of programme systems in your area.



To cancel APS before starting, press “**TV**” button. First of all choose the “**COUNTRY**”. This, will effect the sort process in APS. To select “**START**” use “**P₊**” or “**P₋**” button and press “**<**” or “**>**” button. To cancel APS during running press “**<**” or “**>**” button.

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

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

Other Features

TV Status

Programme Number, Programme Name (or AV), (they are displayed on the upper left of the screen) and **Sleep Timer** (shows the time left on the upper right screen if enabled). They are displayed after programme change for 3 seconds.

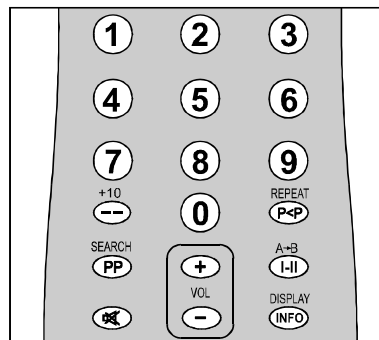
P 01 Programme Number

PR-01 Programme Name (5 characters)

These OSD's are displayed when a new programme is entered by digit button, by pressing “**P<P**” button, or by “**P₊**” or “**P₋**” button, or by “**TV**” button.

Programme Swap (P<P)

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



Double-digit (- -)

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

P - -

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.

Personal Preferences (PP)

All the preset values will be restored, when pressing “**PP**”.

PP

Picture Mode Indicator

This OSD is displayed under the programme number OSD at the same time with TV status OSD's.

For Picture Mode 4:3 **4:3**

For Picture Mode 16:9 **16:9**

For Picture Mode AUTO **AUTO**

Sleep Timer Last Minute Indicator

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

When there is only one minute left of the timer countdown, it will be displayed automatically on the upper right of the screen and will stay there until the countdown has finished. The TV will then go to standby.

0:15 : 00

Mute Indicator

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



To cancel mute, there are two alternatives; the first one is pressing to "M" 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 return at the decreased level.

No-Signal

No-Signal Timer Indicator

It is displayed in the middle of the screen when no valid signal detected. It shows the remaining time for switching to the Stand-By mode (it takes 5 minutes when no valid signal detected or no Remote Control command is accessed). The indicator is displayed for 3 seconds when there is no valid signal.

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

It is not valid in AV mode.

05 : 00

Blue Background During No-Signal

In case, no valid signal is detected AV mode Blue Background is activated. During search process Blue Background is not active. But instead of it there is another feature given;

the semi-transparent menu background is made blue.

Volume Bar

It is displayed in the lower middle of the screen. When a volume command is received (pressing "VOL+" or "VOL-" 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 in Teletext). Pressing this button consecutively TV will switch to the AV modes: DVD, AV-1, F-AV, RGB.

AV-1 supports the RGB mode. But if there is some colour problem in AV-1 mode, please force the AV mode to RGB mode.

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


Teletext

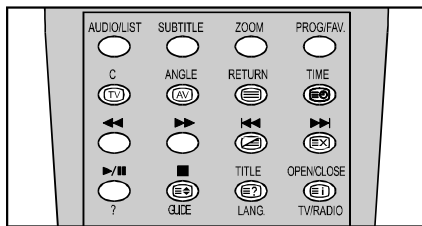
Teletext is an information system that displays text on your TV screen. Using the Teletext information system you can view a page of information on a subject that is available in the list of contents (index).

On screen display is not available in text mode.

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

To operate Teletext



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

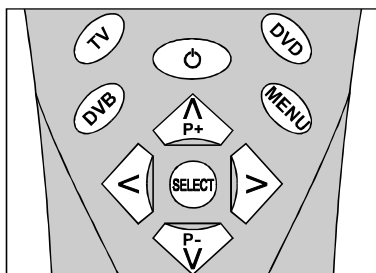


To select a page of Teletext


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

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



- Press “” 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 “” button.




To Select Teletext with a TV Programme

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



Searching for a page while watching TV

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

To Select Double Height Text



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

To Reveal “concealed” Information

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




To Stop Automatic Page Change

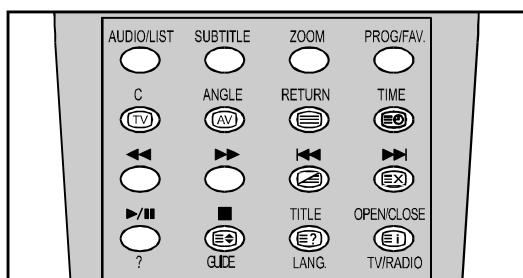
The teletext page you have selected may contain more information than what is on the screen; the rest of the information will be displayed after a period of time.

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

To Select a Subcode Page


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


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



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.

To exit Teletext

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

To Display the Time

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

Connect Peripheral Equipment

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

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

Via the Euroconnector

Your TV set has a Euroconnector socket. If you want to connect peripherals (e.g. video, decoder, etc.) which have Euroconnector, to your TV, use **SCART** input.

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

In AV mode if you press the “**INFO**” button the TV status OSD 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 **aerial** input it is suggested to use Programme 0.*

Decoder

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

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

Connect a decoder with an aerial socket to the TV

- Connect the aerial cable.

Connect a decoder without an aerial socket to the TV

- Connect the decoder to your TV with a eurocable (RCA Jack Cable) to **SCART** (RCA Jack). When your decoder has a Euroconnector / RCA Jack you can obtain better picture quality if you connect a eurocable (RCA Jack Cable) to **SCART** (RCA Jack).

TV and Video Recorder

- Connect the aerial cables.

Better picture quality can be obtained if you also connect a eurocable to **F-AV / SCART** socket.

Playback NTSC

Connect NTSC VCR player to **F-AV / SCART** of the TV.

Then, press "**AV**" button to select DVD, AV-1, F-AV, RGB.

Search for and store the test signal of the video recorder

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

Camera and Camcorder

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

Connect your camera or camcorder **F-AV / SCART** of your TV.

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

Connect the decoder to the video recorder

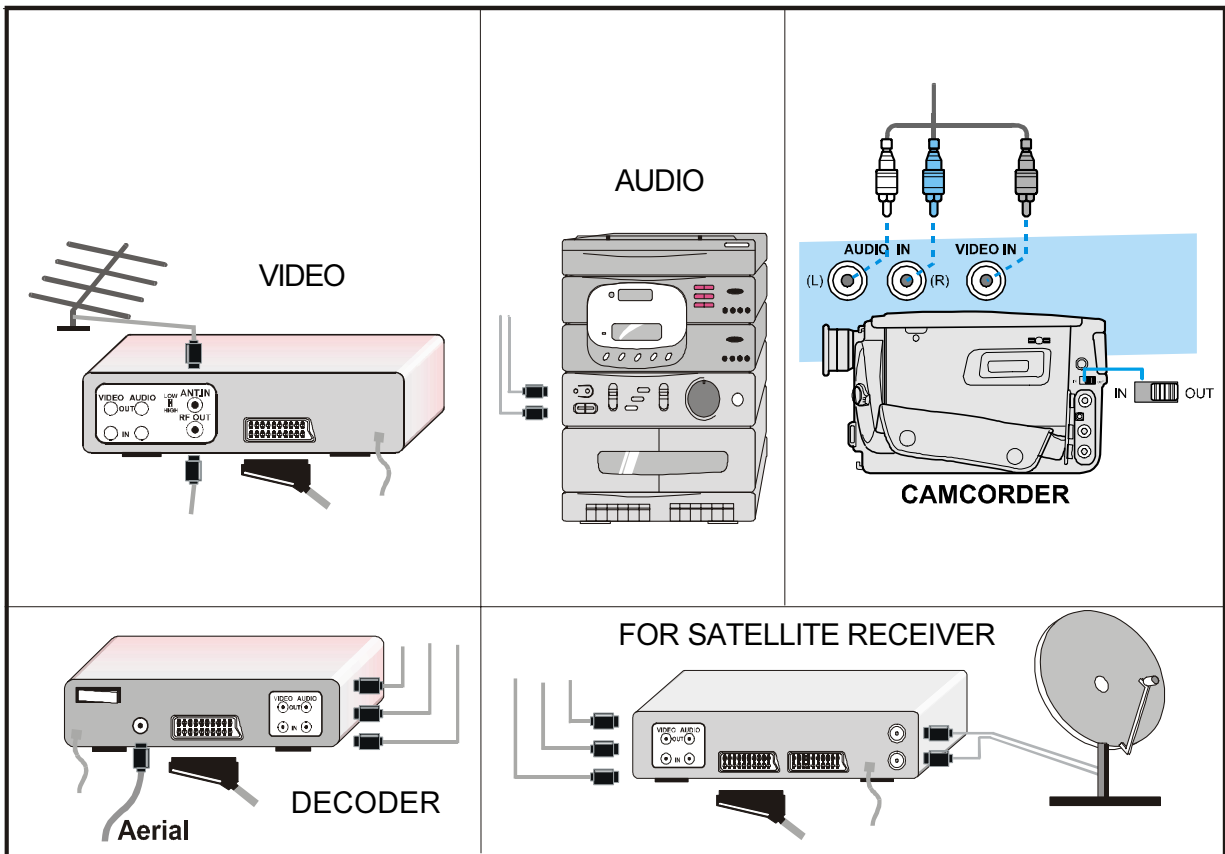
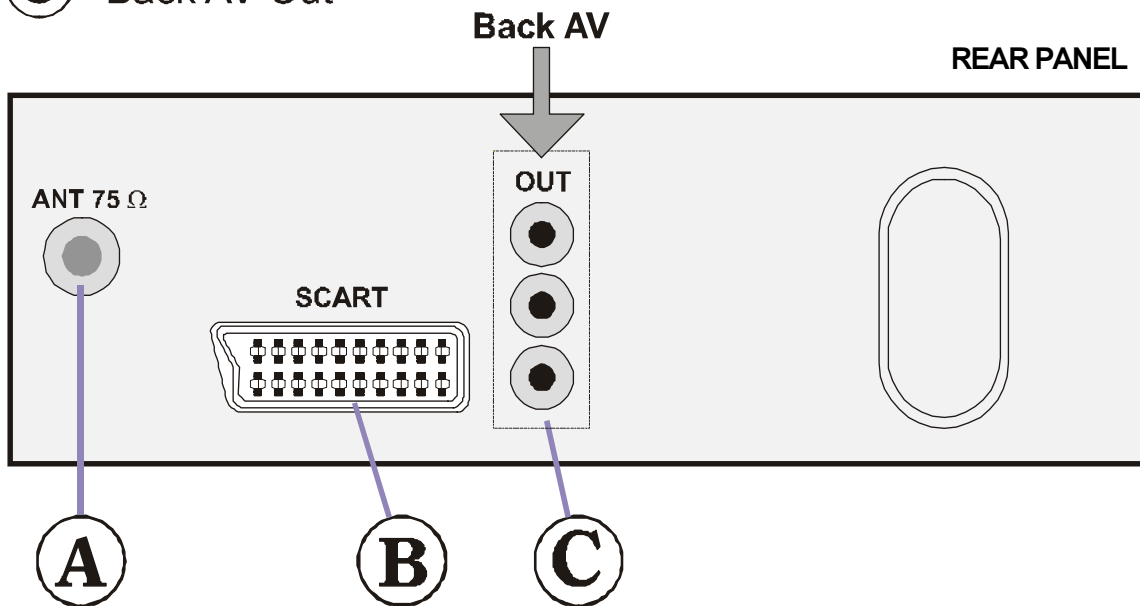
Some video recorders have a special euroconnector for decoder.

- 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.

Connect Peripheral Equipment

- A** Aerial Input
- B** Scart
- C** Back AV Out



Tips

Care of the Screen

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

Poor Picture

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

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

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

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

No Picture

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

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

Sound

You can not hear any sound. Did you perhaps interrupt the sound, pressing "X" key?

Remote Control

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

Have you selected the wrong menu? Press

"TV" key to return to TV mode or press "MENU" to return to the previous menu.

No solution

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

Specifications

TV BROADCASTING

PAL I/I'

RECEIVING CHANNELS

VHF (BAND I/III)

UHF (BAND U)

HYPERBAND

CABLE TV (S01 / S41)

NUMBER OF PRESET CHANNELS 100

CHANNEL INDICATOR

On Screen Display

RF AERIAL INPUT

75 Ohm (unbalanced)

OPERATING VOLTAGE

230-240V AC, 50 Hz.

AUDIO OUTPUT

Mono

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

2 x 3,5

POWER CONSUMPTION (W) (max.)

90

PICTURE TUBE

14" (37 cm)

DIMENSIONS (mm)

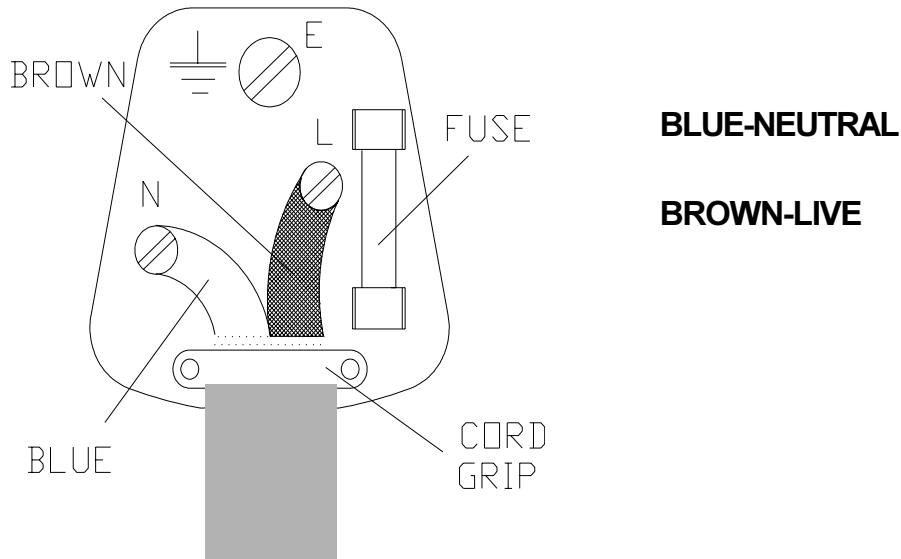
DIMENSIONS (mm)			
D	L	H	Weight (kg)
391	368	399	11,5

Important Instruction

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

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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DVD

HOW TO WATCH A DVD

When TV set is turned on press **DVD button** on Remote Control and press play, or directly press play button at the front panel. If there is no disc inside the tray, press Open / Close button place a DVD and press play.

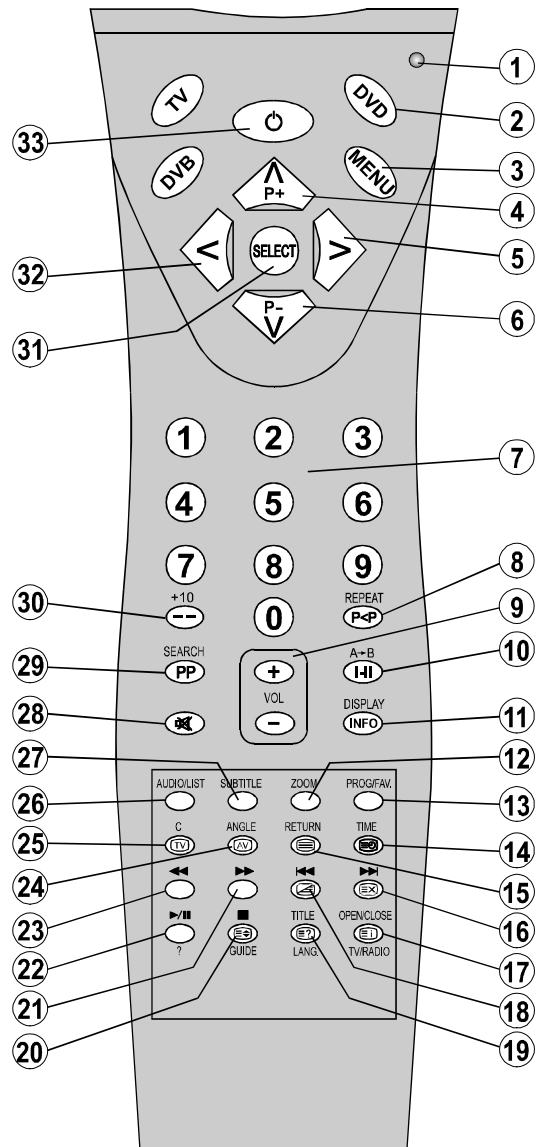
Remote Control Buttons

DVD MODE

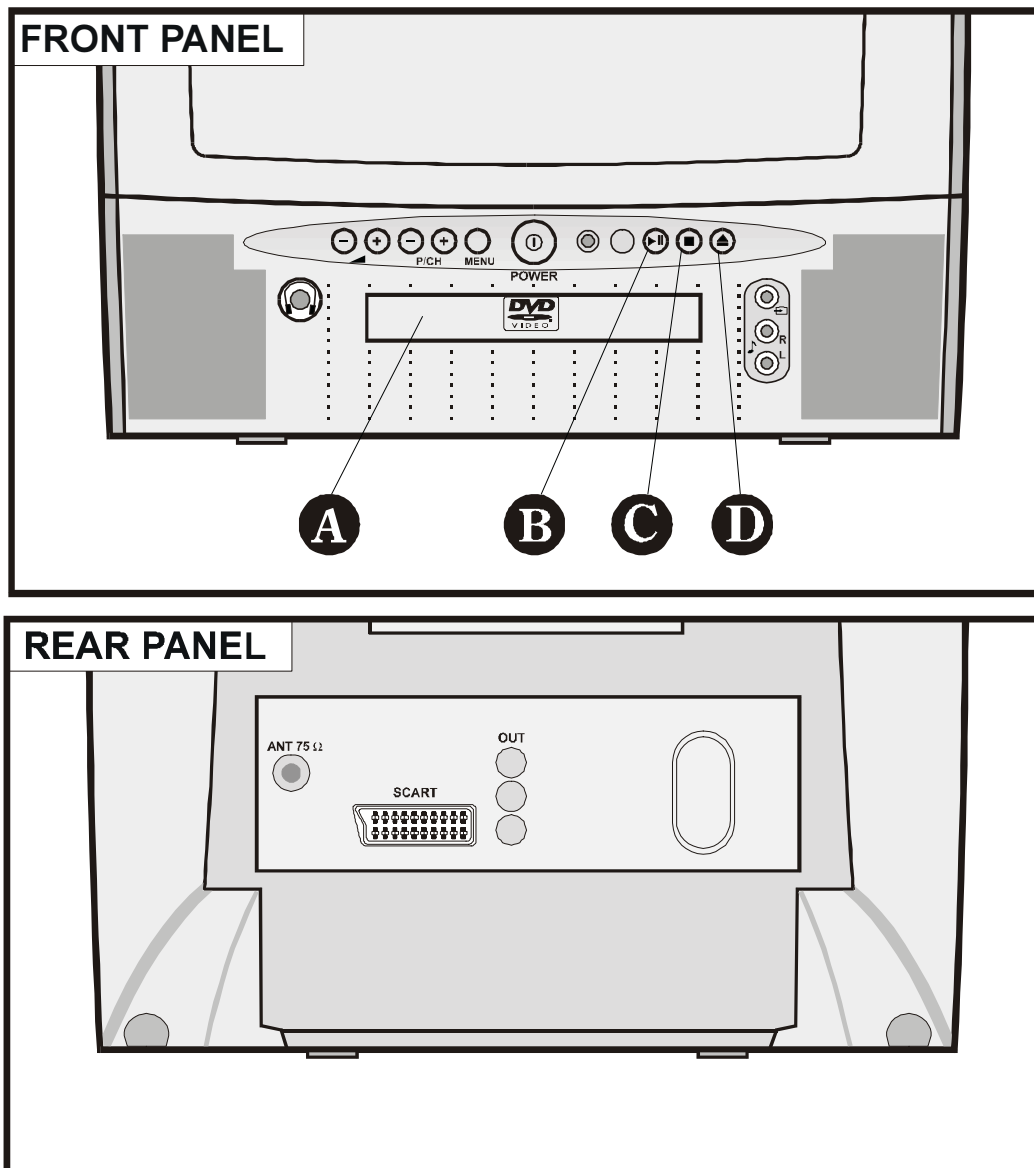
In normal display mode, that is, when you are not inside a menu, remote keys have a direct function. Above DVD function buttons definitions are blue.

- 1 Led
- 2 **DVD Mode Select**
- 3 **MENU** = DVD Menu ON/OFF
- 4 \uparrow_{P+} = Cursor Up
- 5 \rightarrow = Cursor Right
- 6 \downarrow_{P-} = Cursor Down
- 7 **0-9** = Digits (Press to enter track/chapter/title/time/etc... numbers directly.)
- 8 **REPEAT** = Press to execute disc/title/chapter repeat if not prohibited by the disc.
- 9 **VOL+ / VOL -** = Volume Up / Down
- 10 **A \rightarrow B** = Press to execute the A \leftarrow B repeat play if not prohibited by the disc.
- 11 **DISPLAY** = Displays the content menu during playback or displays the set-up menu during "Stop" & "Resume" mode.
- 12 **ZOOM** = Zooms the picture by 2x while playing DVD/VIDEO CD. Pressing zoom button again disables zoom mode.
- 13 **PROG** = Press to enter the program edit menu for audio CD and MP3.
- 14 **TIME** = Changes the playing time display mode of the disc, title, track etc., on the OSD and front panel display.
- 15 **RETURN** = Press the return to the preceding selection screen, etc. During VCD playback, shows the VCD menu if it exists and "Go Up" On Screen indicator appears.
- 16 $\blacktriangleright\blacktriangleright$ = Skip Next
- 17 **OPEN/CLOSE** = Eject
- 18 $\blacktriangleleft\blacktriangleleft$ = Skip Back
- 19 **TITLE** = Displays the title menu of the DVD if supported by the disc.
- 20 \blacksquare = Stop
- 21 $\blacktriangleright\blacktriangleright$ = Search Forward
- 22 $\blacktriangleright/\parallel$ = Play / Pause
- 23 $\blacktriangleleft\blacktriangleleft$ = Search Back
- 24 **ANGLE** = Changes the angles when playing a DVD if supported by the disc.
- 25 **C** = Clear
- 26 **AUDIO** = Changes the language of the sound while playing a DVD if supported by the disc.

- 27 **SUBTITLE** = Changes the language of the subtitle while playing a DVD if supported by the disc.
- 28 \times = Mute
- 29 **SEARCH** = Press to select the unit for search (title, chapter, track, index, time etc.) if not prohibited by the disc.
- 30 **+10** = To enter 2-digit numbers
- 31 **SELECT** = Okey
- 32 \leftarrow = Cursor Left
- 33 Power = Turns on and off the power of the player.



DVD Control Panel Buttons and Rear Panel



- A** Disc Tray = Place a disc on the tray when tray is open.
- B** ► = Plays/pauses the disc. When DVD menu (root menu or title menu) is active, this button functions as “button select” (selects the highlighted item in menu) if this is not prohibited by the disc.
- C** ■ = Stop (Stop playing disc.)
- D** ▲ = Open / Close (Opens or closes the disc tray.)

About this Manual

Safety Information

CAUTION

DVD Player is a class 1 laser product. However this product uses a visible laser beam which could cause hazardous radiation exposure if directed be sure to operate the player correctly as instructed.

**CLASS 1
LASER PRODUCT**

HOW TO WATCH A DVD

When TV set is turned on press **DVD button** on Remote Control and press play, or directly press play button at the front panel. If there is no disc inside the tray, press Open / Close button place a DVD and press play.

- This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

- Manufactured under license from Dolby Laboratories. "Dolby", and the double-D symbol are trademarks of Dolby Laboratories.

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.

General Properties

- 1) DVD / VCD / CD / CD-R / CD-RW / MP3 / JPEG playback
- 2) NTSC/PAL playback (according to disc content)
- 3) User-friendly multilanguage OSD menu control.
- 4) LPCM audio.
- 5) Multiple Aspect Ratio support (16:9 Widescreen, 4:3 Letterbox, 4:3 PAN & SCAN)
- 6) Multi-Audio (up to 8) support (According to disc content)
- 7) Multi-Subtitle (up to 32) support (According to disc content)
- 8) Multi-Angle (up to 9) support (According to disc content)
- 9) 8 level parental control
- 10) Fast forward and rewind in 4 different speeds.
- 11) Smooth and seamless playback in 2x speed.
- 12) Slow motion playback in 3 different speeds.
- 13) Frame by frame forward and backward playback
- 14) Time Search
- 15) Repeat
- 16) A → B repeat
- 17) Program function for Audio CD & MP3.
- 18) Different play modes for Audio CD & MP3 (Normal/Shuffle/Intro)

*** This DVD player may not support some MP3 recordings due to differences in recording formats or disc type.

*** Please read the owner's manual about MP3 playback

*** CD-R/CD-RW discs recorded by CD-DA method can be played. Some CD-R/CD-RW discs may be incompatible due to laser pick-up and disc design.






*** Some VCD discs may be incompatible .

*** DVD-R discs recorded by DVD-Video method can be played . Some DVD-R discs may be incompatible due to laser pick-up and disc design.

*** Some discs may be incompatible with JPEC Viewer function due to different recording format or condition of the discs.

Disc Types Compatible with This Unit

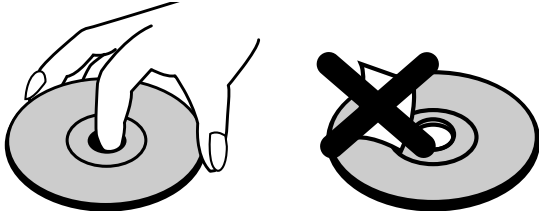
This player can play the following discs.

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD 	Audio + Video	12 cm	Single - sided; 240 min. Double - sided; 480 min.	<ul style="list-style-type: none"> DVD contains excellent sound and video due to MPEG-2 System. Various screen and audio functions can be easily selected through the on screen menu.
		8 cm	Single - sided; 80 min. Double - sided; 160 min.	
VIDEO-CD 	Audio + Video	12 cm	74 min.	<ul style="list-style-type: none"> Video with CD sound, VHS quality & MPEG-1 compression technology.
		8 cm	20 min.	
AUDIO-CD 	Audio	12 cm	74 min.	<ul style="list-style-type: none"> An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 cm	20 min.	
MP3-CD 	Audio (xxxx.mp3)	12 cm	It depends on MP3 quality.	<ul style="list-style-type: none"> MP3 is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
PICTURE-CD 	Video (still picture)	12 cm	It depends on JPEG quality.	<ul style="list-style-type: none"> JPEG is recorded as a Digital Signal with better picture quality over time.

Notes on Discs

On handling discs

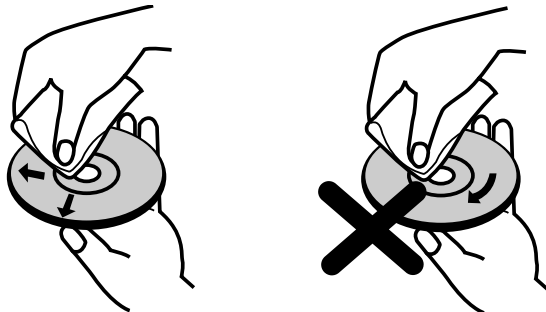
- To keep the disc clean, handle the disc by its edge. Do not touch the surface.
- Do not stick paper or tape on the disc.
- If the disc is contaminated with any substance like glue remove before using it.



- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature can rise quickly and damage the disc.
- After playing, store the disc in its case.

On cleaning

- Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



- Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

DVD Playback

Basic Play

1. **Switch the TV on (Please see Page 7).**
2. **Press OPEN/CLOSE to open the disc tray.**
3. **Place a disc onto the tray**

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. **Press OPEN/CLOSE.**

- The disc tray is automatically closed and play commences.
- A menu may appear on the TV screen after a few moments or the film may start immediately after the introduction of the Film Company. This behaviour depends on the disc content and may change.

NOTE: Step 5 is available only when a menu is shown after the disc is inserted.

Press \leftarrow / \rightarrow / P^- / P^+ or the number button(s) to select the preferred menu item.

5. **Press SELECT**

Play of the selected items now commences. The played item may be a film, a still picture or another submenu depending on the disc.

Note:

When using menus the disc controls the behaviour of the player.

Stopping play and returning to the menu screen (when a menu is available on the disc)

Press **MENU** or **TITLE** button depending on the disc. Play is suspended, and the Disc menu screen is displayed.

After operation

When the unit is not in use, remove the disc.

NOTE:

- The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press the **STOP (■)** button to clear the menu display.

- If the disc is placed in upside down (and it is a single sided disc) "BAD DISC" is displayed on the screen.

For your reference:

- If an action corresponding to a button is prohibited the "🚫" symbol appears.

Stopping Play

Press stop (■) twice.

For your convenience:

- When STOP (■) is pressed once, while the play continues, the unit records the point where the play is stopped and if the PLAY (▶) key is pressed, playback resumes from the point where the STOP (■) key was pressed. When the tray is opened or the STOP (■) is pressed again, the RE-SUME function will be cleared.
- To stop the play permanently, press STOP (■) twice. When the STOP (■) button is pressed for the first time, a message "PRESS PLAY TO CONTINUE" will appear on the screen to remind you if you want to continue the play. To stop the play, press the STOP (■) button again or you can press PLAY/PAUSE to continue.

Fast Forward / Reverse

Press SEARCH/SLOW (◀◀ Fast reverse or ▶▶ Fast forward) on the remote control during play.

- Normal play is resumed when the PLAY/PAUSE (▶/||) button is pressed.
- The speed of advance (FF 2x, FF 4x, FF 8x, FF 16x) or reverse (FR 2x, FR 4x, FR 8x, FR 16x) changes for every press of the ▶▶ or ◀◀ button.

Skipping Forward / Backward

Skipping Forward

Press SKIP/ FRAME ▶▶ (Next) on the remote control during play.

A chapter is skipped forward each time the button is pressed.

Skipping Backward

Press SKIP/ FRAME ◀◀ (Previous) on the remote control during play.

When the button is pressed once midway through a chapter, play returns to the start of that chapter. When it's pressed again, a chapter is skipped each time the button is pressed.

Pause

Press PLAY/PAUSE (▶/||) once during play.

The screen suspends.

To return to normal play press PLAY/PAUSE (▶/||) again.

Step Forward

Press PLAY/PAUSE (▶/||) once during play.

The screen suspends.

Press SKIP/ FRAME ▶▶ (Next) on the remote control.

The next frame of the movie is displayed.

You can press SKIP/ FRAME ▶▶ (Next) for the following frames.

NOTE:

Reverse stepping is not available.

Slow-motion Play Forward

Press PLAY/PAUSE (▶/||) once during play.

The screen suspends.

Press SEARCH/SLOW ▶▶ on the remote control.

The unit starts playing the movie at three different speeds (SF 1/8X, SF 1/4X and SF 1/2X).

You can increase or decrease the speed of the slow-motion play by pressing SEARCH/SLOW ▶▶ or ◀◀.

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play press **PLAY/PAUSE** (▶/⏸).

Slow-motion Play Backward

Press **PLAY/PAUSE** (▶/⏸) once during play.

The screen suspends.

Press **SEARCH/SLOW** ◀ on the remote control.

The unit starts playing the movie at three different speeds (SR 1/8X, SR 1/4X and SR 1/2X).

You can increase or decrease the speed of the slow-motion play by pressing **SEARCH/SLOW** ◀ or ▶.

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play press **PLAY/PAUSE** (▶/⏸).

NOTE:

- The forward and backward slow-motion operations are not recursive. The sequence for the slow-motion is as follows:

SR 1/2X, SR 1/4X, SR 1/8X, PAUSE, SF 1/8X, SF 1/4X, SF 1/2X

Direct Selection of Scenes

Selecting Scenes by Chapter Number

Press **SEARCH** on the remote control once during playback.

The chapter/title search box is displayed on the screen. You can see the currently playing and total number of chapters in right hand side of the display bar as — / xx.

Enter the number of the chapter using number buttons.

The selected chapter is played just after you enter the chapter number.

For your convenience:

- If the chapter number you entered is between 0 and 9, player will automatically jump to the related chapter. To enter a chapter number which is more than 1 digit, press **+10 KEY** and then enter the chapter

number.

- You can clear the field by pressing the **C** button if you enter wrong number.
- If you attempt to enter a number greater than the total number of chapters on the current title, it clears the numbers entered and waits for you to enter again.
- If you wait ten seconds without pressing any key for selecting scenes by chapter number, the operation is cancelled.

Selecting Scenes by Title Number

Press **SEARCH** on the remote control once during playback.

The chapter/title search box is displayed on the screen.

Press < (Left) button on the remote control to select the title field in the search box to change the title.

You can see the currently playing title and total title numbers on the top-left side of the display as — / xx.

Enter the number of the title using number buttons.

The selected title is played just after you enter the title number.

For your convenience:

- Enter the title number between 0 and 9, your request will be acknowledged immediately without pressing any other key. To select a title number which is more than 1 digit, press **+10 KEY** and then enter the title number.
- You can clear the field by pressing the **C** button if you enter wrong number.
- If you attempt to enter a number greater than the total number of titles, it clears the numbers entered and waits for you to enter again.
- If you wait ten seconds without pressing any key for selecting scenes by title number, the operation is cancelled.
- You can press **RETURN** key to cancel title search.

Selecting Scenes by Time

You can view the DVD starting from any time point you want.

Press SEARCH on the remote control “twice” during playback.

The time search box is displayed on the screen. You can see the total runtime of the title on right side of the display bar as --:--:--/xx:xx:xx

Enter the time using number buttons.

The title is played beginning from the desired time just after you enter the time. If not prohibited by the DVD.

For your convenience:

- You can clear the fields by pressing the **C** button if you enter wrong numbers.
- If you attempt to enter a number greater than the total time of the current title, it clears the numbers entered and waits for you to enter again.
- If you wait ten seconds without pressing any key to enter time, selecting scenes by time option is cancelled.
- You can press **RETURN** key to cancel time search.

Repeat Play

Repeat Viewing

Press REPEAT during play.

Each time this button is pressed, a different repeat box is displayed on the screen.

- If “CHAPTER REPEAT” is displayed, the current chapter will be played again.
- If “TITLE REPEAT” is displayed, the current title will be played again.
- If “REPEAT OFF” is displayed, the repeat mode is disabled.

NOTE: Repeat play may be prohibited by some DVD titles.

Repeating sections between two specific points. (A-B repeat)

Press A-B during play at the point where repeat play is to commence (A).

“A TO B SET A” is displayed.

Press A-B again at the point where repeat play is to be concluded (B).

“A TO B SET B” is displayed and the repeat play of the selection between points A and B starts, if not prohibited by the DVD.

To return to normal play

Press **A-B** again. “A TO B CANCELLED” is displayed and the A-B Repeat is disabled.

Convenient Functions

Displaying the time information

Press DISPLAY during PLAY.

During playback, each time this button is pressed, some information is displayed on TV screen to indicate the current status of the disc. On the display screen you can find the following information lines:

Line 1: Title & Chapter Numbers

Line 2: Audio Format, Number of Output Channels & Audio Language

Line 3: Subtitle Language Number & Subtitle Language

Line 4: Time Counter Mode & Time Counter

Pressing DISPLAY button once more closes this information screen.

You can also reach this information screen by pressing **TIME** key.

Time counter modes can be selected by pressing **TIME** key consecutively.

First hit to **TIME** key: TITLE ELAPSED Mode

Second hit to **TIME** key: TITLE REMAIN Mode

Third hit to **TIME** key: CHAPTER ELAPSED Mode

Fourth hit to **TIME** key: CHAPTER REMAIN Mode

- If “TITLE ELAPSED” is displayed, the elapsed time for the title is being displayed.
- If “TITLE REMAIN” is displayed the remaining time for the title is being displayed.
- If “CHAPTER ELAPSED” is displayed, the elapsed time for the chapter is being displayed.
- If “CHAPTER REMAIN” is displayed, the re-

maining time for the chapter is being displayed.

If you wait ten seconds without pressing any key for changing time mode, time information on screen disappears.

Displaying a scene with a larger and closer view

The 'zoom in' function enables you to take a closer look at the scene you are viewing that is especially a considerate function when you are watching science fiction or adventure movie.

Press ZOOM during play.

"ZOOM 133%" is displayed on the screen and the picture is now larger. By pressing **ZOOM** key consecutively you can reach "ZOOM 150%", "ZOOM 200%" modes.

NOTE: You can move in the picture i.e. change the zoomed location by using the < (Left) / > (Right) / ∇ (Down) / Δ (Up) arrow keys.

To return to normal play

Press ZOOM again. "ZOOM OFF" is displayed on the screen and the picture is now in its normal size.

Displaying / Changing Subtitle Language

It is possible to change the subtitle language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple subtitle languages are recorded.)

Press SUBTITLE during play.

When no subtitles are recorded "⏏" will be displayed instead of the selected language.

Press SUBTITLE a number of times until the preferred language is selected.

When this button is pressed once, the first subtitle recorded on the disc will be displayed. The rest of the subtitles recorded will be displayed in sequence for every press of the **SUBTITLE** button.

For your convenience:

- When the preferred language is not selected

even after pressing the button several times, it means that the language is not available on the disc.

- When the player is restarted or the disc is changed, the subtitle selection is automatically changed back to the initial settings.
- Usually a circulation will happen while switching to another language, that is you can cancel the subtitle by pressing this button a number of times until "Subtitle Off" appears on the screen.

Changing Audio Soundtrack Language

It is possible to change the audio language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple audio soundtrack languages are recorded, if not prohibited by the DVD.)

Press AUDIO during play.

Press AUDIO a number of times until the preferred language is selected.

NOTE:

- When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.
- When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.

Viewing From Another Angle

Some DVD discs may contain scenes, which have been shot simultaneously from a number of different angles. For these discs, the same scenes can be viewed from each of these different angles using the **ANGLE** button.

The number of recorded angles differs depending on the disc used.

"y/x" is displayed shortly on the screen during playback. This indicates that the multi-angle scene has just started. Also on unit's display 'ANGLE' message appears. From that moment on, the yth angle of total x

angles is played and you can change the viewing angle until the end of the multi-angle scene.

NOTE:


- In **SETUP** menu, an 'ANGLE MARK' option exists, which, if enabled, will display a continuous angle mark on the screen as long as multi-angle scene is available.

Press ANGLE during play.

The current angle is changed.

Press ANGLE a number of times until the preferred viewing angle is selected.

NOTE:

- This function will only work on discs where different angles have been recorded.
- The viewing angles are shown on the screen. You can select one from them for viewing.
- If you press ANGLE outside of a multi-angle scene on a multi-angle title, you will see that “

Using a DVD Menu



Some DVD discs have unique menu structures called DVD menus. For example, DVDs programmed with complex contents provide guide menus, and those recorded with various languages provide menus for audio and subtitle language. Although the DVD menus' contents and operation differ from disc to disc, the following explains basic operation when this feature is used.

Press TITLE or MENU on the remote control.

The DVD menu available on the disc is now displayed.

NOTE:

- If you press MENU, the root menu of DVD is displayed.
- If you press TITLE, the menu of the current title is displayed.

Press **< / > /  / ** to select the preferred item.


Press SELECT

The selected item is now executed.

For your convenience:

- You can also use **number** keys to select a DVD menu item. The player will automatically execute the item. To enter an item number which is more than 1 digit, press **+10** key and then enter the item number.

NOTE:

- Some DVDs may not contain root and/or title menus.
- To resume the playback, select **PLAY** () item in DVD menu.

Video CD Playback

Basic Play

1. **Switch the TV on (Please see Page 7).**
2. **Press OPEN/CLOSE to open the disc tray.**
3. **Place a disc onto the tray**

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. **Press OPEN/CLOSE.**

- **For Video CDs without playback control:**

The disc tray is closed and play commences

- **For Video CDs provided with playback control:**

If disc contains a menu, it will appear on the screen after a few moments.

Menu Play

- This function works only with video CDs with playback control (version 2.0).
- The details differ depending on the disc concerned. Also refer to the instructions accompanying the disc.

After steps 1 to 4 above the menus are displayed on the TV screen.

5. **Press the number button(s) to select the preferred item.**

The player now starts to play the selected item.

NOTE:

- Use **+10** button to enter two-digit-numbers.
- **< / >** / **P₋** / **P₊** arrow buttons are not used for selecting items for video CDs.

What is playback control?

If a video CD has “playback control” written on the jacket of disc, it means that particular scenes or information can be selected for viewing interactive with TV screen using the menu screen.

NOTE:

- **TITLE** button is dedicated to PBC “playback control” during VCD playback. You can change PBC mode with **TITLE** button.
- PBC ON is default. Whenever you open the tray it will be ON.

When the menu continues onto another screen

After step 4, press **SKIP NEXT** **▶▶▶**.

- To return to the previous menu screen press **SKIP PREV** **◀◀◀**


After operation

When the unit is not in use, remove the disc.

NOTE:

- The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press the **STOP** (■) button to clear the menu display.
- If the disc is placed in upside down (and it is a single sided disc) “BAD DISC” is displayed on the screen.

For your reference:

- When “” symbol appears while a button is being operated on up-left corner of OSD, it means that the player prohibits the corresponding operation.

Stopping play

Press **STOP** (■) twice.

For your convenience:

- When **STOP** (■) is pressed once, while the play continues, the unit records the point where the play stopped and if the **PLAY** (▶) key is pressed, play resumes from the point where **STOP** (■) key was pressed. Press **PLAY / PAUSE** (▶/||) again, and play will resume from this point. When the tray is opened or the **STOP** (■) is pressed again, the resume function will be cleared.
- To stop the play permanently, press **STOP** (■) twice. When the **STOP** (■) button is pressed for the first time, a message “PRESS PLAY TO CONTINUE” will appear on the screen to remind you if you want to continue the play. To stop the play, press the **STOP** (■) button again or you can press **PLAY / PAUSE** (▶/||) to continue.

Fast Forward / Reverse

Press **SEARCH/SLOW** (◀◀ Fast reverse or ▶▶ Fast forward) on the remote control during play.

- Normal play is resumed when the **PLAY / PAUSE** (▶/||) button is pressed.
- The speed of advance (FF 2x, FF 4x, FF 8x, FF 16x) or reverse (FR 2x, FR 4x, FR 8x, FR 16x) changes for every press of the ▶▶ or ◀◀ button.

Skipping Forward / Backward

Skipping Forward

Press **SKIP/ FRAME** ▶▶▶ (Next) on the remote control during play.

A chapter is skipped each time the button is pressed.

Skipping Backward

Press **SKIP/ FRAME** ◀◀◀ (Previous) on the remote control during play.

When the button is pressed once midway through a chapter, play returns to the start of that chapter. When it is pressed again, a chapter is skipped each time the button is pressed.

Pause

Press **PLAY/PAUSE** (▶/||) once during play.

The screen suspends.

To return to normal play press **PLAY/PAUSE** (▶/||) again.

Step Forward

Press **PLAY/PAUSE** (▶/||) once during play.

The screen suspends.

Press **SKIP/ FRAME** ▶▶ on the remote control.

The next frame of the movie is displayed.

You can press **SKIP/ FRAME** ▶▶ for the following frames.

NOTE: Reverse stepping is not available.

Slow- motion Play

Press **PLAY/PAUSE** (▶/||) once during play.

The screen suspends.

Press **SEARCH/SLOW** (◀◀ Slow backward or ▶▶ Slow forward) to increase or decrease the speed of the slow-motion play.

The speed sequence is:

SR 1/2X, SR 1/4X, SR 1/8X, PAUSE, SF 1/8X, SF 1/4X, SF 1/2X

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play press **PLAY/PAUSE** (▶/||) again.

Direct Selection of Scenes

Selecting Scenes by Time (only for version 2.0 VCDs)

You can view the video CD, starting from any time point you want.

Press **SEARCH** on the remote control once time during playback.

The time search box is displayed on the screen as TRACK TIME __ : __ : __ / xx : xx : xx

Enter the time using number buttons.

Player goes to entered time of the current track.

Press **SEARCH MODE** on the remote control twice during playback.

The time search box is displayed on the screen as DISC TIME __ : __ : __ / xx : xx : xx

Enter the time using number buttons.

Player goes to entered time of the disc.

NOTE:

Disc search is available only when PBC is off.

For your convenience:

- If you attempt to enter a number greater than the total time of the current title, it clears the numbers entered and waits for you to enter again.
- If you give up entering the time simply press RETURN button, and the operation is cancelled.

Accessing tracks using number buttons:

You can play any track you want, just by pressing the corresponding number button.

For the track numbers which are greater than “9” use +10 button. Press this button once and then type the two digit track number.

If you attempt to enter a number greater than the total number of tracks on disc, “✋” symbol appears on up-left corner of the screen.

NOTE:

This operation is available only when PBC is off.

Repeat Play

Repeat Viewing

Press **REPEAT** during play.

Each time this button is pressed, a different repeat box is displayed on the screen.

- If "REPEAT TRACK" is displayed, the current track will be played again.
- If "REPEAT ALL" is displayed, the whole disc will be played again.
- If "REPEAT OFF" is displayed, the repeat mode is disabled.

NOTE:

Repeat Modes are available only when PBC is off.

Repeating sections between two specific points. (A –B repeat)

Press A-B during play at the point where repeat play is to commence (A).

"A TO B SET A" is displayed on screen.

Press A-B again at the point where repeat play is to be concluded (B).

"A TO B SET B" is displayed and the repeat-play of the selection between points A and B starts.

To return to normal play

Press **A-B** again. "A TO B CANCELLED" is displayed and the A-B Repeat is disabled.

NOTE:

If you give up entering the point B after entering A simply press RETURN, and the operation is cancelled.

Convenient Functions

Displaying the time information

Press TIME during play.

Each time this button is pressed, a different time information box is displayed on the screen.

- If "Single elapsed" is displayed, the elapsed time for the title which is being played will be displayed.
- If "Single remain" is displayed, the remaining time for the title which is being played will be displayed.
- If "Total Elapsed" is displayed, the elapsed time for the disc is being displayed.
- If "Total remain" is displayed the remaining time for the disc is being displayed.

Displaying a scene with a larger and closer view

This 'zoom-in' function enables you to take a closer look at the scene you are viewing. This is especially a considerate function when you are watching science fiction or adventure movie.

Press ZOOM during play.

You can change the zooming ratio by pressing ZOOM button more than once. There are 133%, 150% and 200% zoom modes.

NOTE: You can move in the picture ie, change the zoomed location by using the < (Left) / > (Right) / \downarrow (Down) / \uparrow (Up) arrow keys. This is valid for zoom-in only.

To return to normal play

After zoom ratio is 200%, press ZOOM again. "ZOOM OFF" is displayed on the screen and the picture is now in its normal size.

Intro-Digest Menu

Press STOP button if it is in play mode.

Press MENU button in order to see the menu. This menu contains:

1. Intro
2. Disc
3. Track
4. Exit

Intro

Intro menu is used for introducing the contents of the disc.

When you select INTRO option, it plays only first 10 seconds of each track and then passes to the next track.

After the last track it stops playing.

Disc

When you select DISC option, unit goes into digest mode and 9 pictures each of which shows the first scene of the tracks are displayed on the screen.

Using the arrow keys, a picture can be selected. When it is focused, the picture starts playing within the frame.

Press SELECT button to start full-screen playback of the selected scene.

Press SKIP/FRAME buttons in order to display next or previous 9 scenes in digest mode.

Press TITLE button to cancel the digest mode.

Track

When you select TRACK option, unit goes into digest mode and 9 pictures which show different scenes from the first track, are displayed on the screen.

Using the arrow keys, a picture can be selected. When it is focused, the picture starts playing within the frame.

Press SELECT button to start playing of the selected scene.

Press SKIP/FRAME buttons in order to display 9 scenes of next or previous track.

Press TITLE button to cancel the digest mode.

Exit

Use this option to quit menu.

Audio CD Playback

Basic Play

1. Switch the TV on (Please see Page 7).
2. Press OPEN/CLOSE to open the disc tray.
3. Place a disc onto the tray

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press OPEN/CLOSE.

Play is commenced.

After operation

When the unit is not in use, remove the disc.

NOTE:

- If the disc is placed in upside down (and it is a single sided disc) "BAD DISC" is displayed on the screen.

For your reference:

- When "🚫" symbol appears while a button is being operated, it means that the player prohibits the corresponding operation.

Stopping Play

Press stop twice.

For your convenience:

- When STOP (■) is pressed once, while the play continues, the unit records the point where the play stopped and if the PLAY (▶) key is pressed, play resumes from the point where STOP (■) key was pressed. Press PLAY/PAUSE (▶/||) again, and play will resume from this point. When the tray is opened or the STOP (■) is pressed again, the RESUME function will be cleared.
- To stop the play permanently, press STOP (■) twice. When the STOP (■) button is pressed for the first time, a message "PRESS PLAY TO CONTINUE" will appear on the screen to remind you if you want to continue the play. To stop the play, press the STOP (■) button again or you can press PLAY/PAUSE (▶/||) to continue.

Fast Forward / Reverse

Press SEARCH/SLOW (◀◀ Fast reverse or ▶▶ Fast forward) on the remote control during play.

- The speed of advance (2x, 4x, 8x, 16x) or reverse (2x, 4x, 8x, 16x) changes for every press of the ▶▶ or ◀◀ button. You can also resume normal play using these buttons.
- Normal play is resumed when the PLAY/PAUSE (▶/||) button is pressed again.

NOTE: No sound will be heard during fast forward or fast reverse.

Skipping Forward or Backward

Skipping Forward

Press SKIP/ FRAME ▶▶ (Next) on the remote control during play.

A track is skipped each time the button is pressed.

Skipping Backward


Press **SKIP/ FRAME**  (**Previous**) on the remote control during play.

When the button is pressed once midway through a track, play returns to the start of that track. When it is pressed again, a track is skipped each time the button is pressed.

Pause

Press **PLAY/PAUSE** () once during play.

The play suspends.

To return to normal play press **PLAY/PAUSE** () again.

Direct Selection of Tracks

Selecting by Time

You can play the audio CD starting from any time point you want.

Press **SEARCH** on the remote control during playback.

The time search box is displayed on the screen as TRACK TIME __ : __ : __ / xx : xx : xx

Enter the time using number buttons.

Player goes to entered time of the current track.

Press **SEARCH** on the remote control twice during playback.

The time search box is displayed on the screen as DISC TIME __ : __ : __ / xx : xx : xx

Enter the time using number buttons.

Player goes to entered time of that disc.


For your convenience:

- If you attempt to enter a number greater than the total time of the current track, it clears the numbers entered and waits for you to enter again.
- If you give up entering the time simply press RETURN button, and the operation is cancelled.

Accessing tracks using number buttons

You can play any track you want, just by pressing the corresponding number button.

For the track numbers which are greater than “9” use +10 button. Press this button once and then type the two-digit track number.

If you attempt to enter a number greater than the total number of tracks on disc, “” symbol is displayed on screen.

Repeat Play

Press **REPEAT** during play.

Each time this button is pressed, a different repeat box is displayed on the screen.

- If “REPEAT TRACK” is displayed, the current track will be played again.
- If “REPEAT ALL” is displayed, the whole disc will be played again.
- If “REPEAT OFF” is displayed, the repeat mode is disabled.

NOTE: If the play list is active, the playlist is repeated instead of the whole disc in “Repeat All” case.

Repeating sections between two specific points (A–B repeat).

Press **A-B** during play at the point where repeat play is to commence (**A**).

“A TO B SET A” is displayed.

Press **A-B** again at the point where repeat play is to be concluded (**B**).

“A TO B SET B” is displayed and the repeat-play of the selection between points A and B starts.

To return to normal play

Press **A-B** again. “A TO B CANCELLED” is displayed and the A-B Repeat is disabled.

NOTE:

If you give up entering the point B after entering A simply press RETURN, and the operation is cancelled.

Convenient Functions

Displaying the time information

Press TIME during play.

Each time this button is pressed, an information box is displayed on TV screen.

- If "Single elapsed" is displayed, the elapsed time for the track which is being played will be displayed.
- If "Single remain" is displayed, the remaining time for the track which is being played will be displayed.
- If "Total elapsed" is displayed, the elapsed time for the disc which is being played will be displayed.
- If "Total remain" is displayed, the remaining time for the disc which is being played will be displayed.

Program Function

Press STOP button if it's playing.

Press PROG to select program mode.

Enter the track numbers that you want to add to program list.

For the track numbers which are greater than "9", use "+10" button. Press this button once and then type the two digit track number.

Press PLAY/PAUSE button to finish the program entry.

Screen is cleared and it will start playing the program list.

NOTE:

- If you attempt to enter a number greater than the total number of tracks on disc, it clears the numbers and waits for you to enter again.
- You can remove the last track of the playlist by pressing the **C** button.
- The program is cancelled when:
 - The disc tray is opened or closed
 - The power is turned off.

Intro Menu

Press STOP button if it is playing.

Press MENU button in order to see menu. This menu contains:

1. Intro
2. Shuffle On/Off
3. Program
4. Exit

Intro

Intro menu is used for introducing the contents of the disc.

When you select INTRO option, it plays only first 10 seconds of each track and then passes to the next track.

After the last track it stops playing.

Shuffle

When you set SHUFFLE on, it plays the tracks once in a random order.

Program

When you select PROGRAM option, it activates the program mode.

Exit

Use this option to quit menu.

CD Menu

To see the directory structure(menu) of JPEG/MP3 CDs you should set CD MENU option to WITH MENU in setup page.

If CD MENU option is set to NO MENU, MP3 or JPEG content is automatically played without displaying menu.

Basic Play

1. **Switch the TV on (Please see Page 7).**
2. **Press OPEN/CLOSE to open the disc tray**
3. **Place a CD-R disc onto the tray**

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press OPEN/CLOSE to close the disc tray

DISC LOADING message appears on screen. Please wait for a moment.

CD MENU appears. Directories are on the left part and files in the selected directory are on the right part.

5. Press \wedge_{P+} / \vee_{P-} to select files

In the stop mode you can navigate in all directories. If an MP3 track is playing, only the current directory can be used for navigation.

6. Press SELECT < / > to switch between directories & files

On the right part :

On the right part press RETURN to go to parent directory.

Press < (LEFT) to switch to directories.

On the left part:

Press > (RIGHT) or SELECT to switch to files. Selected directory is displayed on the right after reading directory. First item is highlighted initially.

7. Press SELECT on a file to play

MP3 File :

Selected MP3 starts to play.

Elapsed or Remaining Time is displayed according to TIME Mode.

JPG File :

Selected JPEG is displayed in full screen.

Slide Show starts automatically.

PAUSE

Press PLAY/PAUSE (▶/||) once during play.

The play suspends. PAUSE message appears on screen.

To return to normal play press PLAY/PAUSE (▶/||) again.

Stopping Play

Press STOP (■) twice.

The play is stopped. STOP message is appeared on screen for a while.

Fast Forward / Reverse

Only for MP3 :

Press ◀◀ / ▶▶ during play to decrease/increase play speed.

FR 16x, FR 8x, FR 4x, FR 2x, PLAY, FF 2x, FF 4x, FF 8x, FF 16x are the play speed modes.

NOTE:

No sound will be heard during rapid advance or rapid reverse.

Skipping Forward / Backward

Press ◀◀◀ / ▶▶▶ during play to jump to the previous/next file.

Next file in the current directory will be played.

Image transformation

Only for JPEG :

Press PLAY (▶) to start slide show

There are three modes of transformation:

- Invert
- Left
- Right

These operations are allowed only when a picture is being displayed normally, and will be cancelled automatically when a new picture is displayed. The arrow keys are used to select different transformation modes.

Press \wedge_{P+} to invert/normal

Press < to turn left

Press > to turn right

ZOOM

Only for JPEG :

Press PLAY (▶) to start slide show

It is provided both ZOOM in/out and Zoom pan functions for JPEG pictures.

Press ZOOM to turn on/off this function

When this mode is on, any picture will be displayed at the last ratio selected by the user.

A message will indicate the current ratio on screen.

If zoom mode is on,

Press **▶▶ / ◀◀** to control the ratio of zoom in/out.

The zoom ratios are 50% and 75% for zoom out and 100%, 133%, 150% and 200% for zoom in. (The order is: 50%, 75%, 100%, 133%, 150%, 200%)

With ZOOM mode off, a picture is scaled to fit the whole screen.

NOTE:

During ZOOM function, image transformation is disabled.

Digest Mode

Only for JPEG :

Press **PLAY (▶)** to start slide show

Press **TITLE** button during JPEG slide show. Unit goes into digest mode. 9 pictures are displayed on screen.

Using the arrow keys, a picture can be selected.

Press **SELECT** button to display the selected picture.

Press **▶▶** or **◀◀** buttons in order to display next or previous "9" pictures in digest mode.

Press **TITLE** button to cancel the digest mode.

Repeat Modes

Press **REPEAT** to change current repeat mode.

Repeat mode is displayed for a while in slide show mode.

In CD MENU it is displayed at the bottom.

Displaying The Time Information

Press **TIME** to change displayed time mode

There are two time modes :

- Single Elapsed
- Single Remain

Time is displayed only during MP3 playback.

Play Modes

1. Press **STOP (■)**.
2. Press **>** to go to Play Modes menu.
3. Press **SELECT** to change play mode.

The options available are:

FOLDER NORMAL:

When this play mode is selected, the current folder will be played once.

FOLDER REPEAT:

When this play mode is selected, the current folder will be repeated continuously.

DISC SCAN:

When this Play mode is selected, the first 10 seconds of all tracks disc will be played for MP3 files.

DISC NORMAL:

When this Play mode is selected, the disc will be played once.

DISC REPEAT:

When this Play mode is selected, the disc will be played continuously.

SHUFFLE:

When this Play mode is selected, the tracks in the current folder will be played once in a random order.

SINGLE TRACK:

If this option is chosen, the selected track will be played only once.

REPEAT TRACK

If this option is chosen, the selected track will be repeated continuously.

Program Function

Press **PROG** to select program mode in stop mode.

PROGRAM Message appears.

Press **NUMBER** or **▲ / ▼** keys to select files in the current directory.

Press **< / >** to change directory.

Press **SELECT** to add selected file into the program list.

PROGRAM message appears with the current file index and the total files in the list.

Press STOP to finish program.

PROGRAM message appears.

Press PLAY to start program.

PLAY message appears.

Files in the program list are played sequentially.

If you want to quit program mode:

Press STOP key if a track is being played.

Press PROG key.

Press STOP key again.

For your convenience:

- You can remove the last track of the playlist by pressing the **C** button.
- The program remains even after the Program Play ends
- The program is cancelled when:
 - The disc tray is opened or closed
 - The power is turned off.

Using Setup Menu

Press **DISPLAY** key on the remote control when the player is not in playback mode.

The setup menu-main page appears. This is the menu, where you can change the device's settings.

USING MAIN PAGE

Select items using Δ_{P+} / ∇_{P-} arrow buttons.

When selected, the item will be highlighted.

Press **SELECT** to change highlighted item.

The submenu for the selected item appears on the screen.

SETUP menu will only be available when the player is not playing a disc.

In RESUME (Pre-Stop) mode, some pages and some items can not be accessed. On the MAIN page, you can not access VIDEO SETUP and PARENTAL SETUP pages in RESUME mode.

Note: To close the setup menu, select **EXIT SETUP** and press **SELECT**, or press **DISPLAY**.

USING SUB MENU

Once you enter any submenu,

Use Δ_{P+} / ∇_{P-} arrow buttons to move the highlighted position up and down.

Use **< / >** arrow buttons to switch between left and right menus.

Press **SELECT** to choose the highlighted option on the right menu.

Note:

- In any submenu, to return to main page, select **MAIN PAGE** and press **SELECT**.
- To close the setup menu, press **DISPLAY**.

Menu Items

VIDEO SETUP

VIDEO SETUP page will not be available if the player is in RESUME (Pre-Stop) mode.

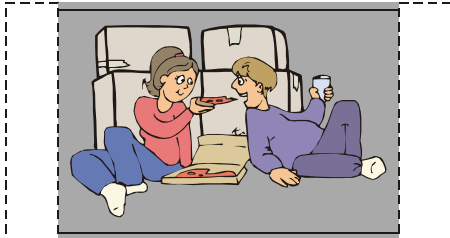
TV DISPLAY:

The aspect ratio of the picture provided by the DVD player can be varied in line with the features available on the TV in use.

The options available are:

NORMAL / PS (4x3 Pan & Scan):

Allows you to see the movie fill the entire screen of your TV, but not the right and left edges. This type of picture can only be viewed, if it is contained on the disc.



NORMAL / LB (4x3 Letterbox):

Allows you to see movies in their original aspect ratio. You will see the entire frame of the movie, but it will occupy a smaller portion of the screen.



WIDE (Wide screen 16x9):

Depending on the format of the DVD disc. (eg. 2.35:1) the picture may still have black lines above and below this picture.



TV TYPE:

The video standard of the DVD player output can be selected from 'MULTI', 'NTSC' or 'PAL'.

If 'MULTI' is selected, the output standard will be either NTSC or PAL depending on the DVD being played.

If 'PAL' is selected, the video output will be converted to PAL standard irrespective of disc standard.

AUDIO SETUP

DYNAMIC (Dynamic Range Compression):

Boosts frequency response. This item can be selected between "OFF" and "FULL".

LPCM OUT:

This item can be selected as "LPCM 96K" or "LPCM 48K".

Note: "Downmix" and "DTS Output" are not available on this model.

LANGUAGE SETUP

Audio, disc menu and subtitle items will not be available if the player is in RESUME (Pre-Stop) mode.

OSD LANG:

You can select the default OSD language of the player menus

AUDIO:

You can select the default audio language if supported by the DVD disc.

DISC MENU:

You can select the DVD's disc menu language among these languages. Disc menu appears in the selected language, if supported by the DVD disc.

SUBTITLE:

You can select the default subtitle language if supported by the DVD disc.

PARENTAL SETUP

PARENTAL SETUP page will not be available if the player is in RESUME (Pre-Stop) mode.

Playing some DVDs can be limited depending on the age of users. The "Parental Control" function allows playback limitation level to be set by the parent.

PARENTAL SETUP (Parental Level):

Parental Level can be adjusted to one of the eight levels or "NO PARENTAL". "NO PARENTAL" or level "8 ADULT" adjustment let you watch all of the DVD titles ignoring the DVD disc's parental level. You can watch the DVD discs, which has the same or lower parental level than the player's level only.

PASSWORD:

Password to change the parental level can be set by using this option.

You have to set a XXXX digital password when you select a parental level for the first time. You have to enter your password every time you want to change the parental level. If you forget your password please contact technical service.

Change Password:

Using this item you can change the current password.

To change the password you will be prompted to enter your old password. After you have entered your old password, you can now enter the new 4-digit password.

- You can use **C** key to delete the incorrect entry.

PREFERENCES

ANGLE MARK, CD MENU and DEFAULTS items will not be available if the player is in RESUME (Pre-stop) mode.

ANGLE MARK:

This option allows you to turn on /off the angle mark on the screen, which is displayed to indicate that a multi angle scene has started. It also shows which angle you are currently watching.

STANDBY TIME:

Standby activation feature can be disabled or standby activation time can be adjusted using this option. If one of the time options is selected, standby is activated, whenever no key is pressed for the selected time dura-

tion in stop mode. The options are OFF, 5 MIN., 15 MIN., 35 MIN.

CD MENU:

This option allows you to enable or disable the CD MENU which is used for playing MP3 or JPEG CDs.

TRANSPARENCY:

Using this option one of three transparency levels can be selected for the on screen display.

DEFAULTS:

If you choose **RESET** and press **SELECT**, the factory-presets are loaded. Parental level and parental password does not change.

Specifications

DVD / VIDEO CD / CD / CD-R / CD-RW / MP3 / JPEG player,

Types of Discs Supported	<p><u>DVD:</u> SS/SL 4.7" (DVD-5) SS/DL 4.7" (DVD-9) DS/SL 4.7" (DVD-10) <u>VCD</u> DS/DL 4.7" (DVD-18) <u>CD-DA</u> <u>CD-R</u> <u>CD-RW</u> <u>MP-3</u> <u>JPEG</u></p>
Video Type	<p>MPEG-2 Video Standard Decoding (MPEG-1 supported) Full-Screen Video Display of 720 x 576 (PAL) & 720 x 480 (NTSC) pixels 50 and 60 Hz frame refresh rates (PAL & NTSC) Digital bit-stream processing rate up to 10.08Mbits/sec Line resolution more than 500 lines</p>
Audio Type	<p>LPCM</p>
Audio Output	<p><u>Analog Outputs:</u> 24 bit /96, 48, 44 1kHz down-sampling DAC</p>

Troubleshooting

The picture quality is poor (DVD)

- Make sure the DVD disc surface is not damaged. (Scratch, fingerprint etc.)
- Clean the DVD disc and try again.
 - See instructions described in "Notes on Discs" to clean your disc properly.
- Ensure that the DVD disc is in the drawer with the label uppermost.
- A damp DVD disc or condensation may effect the equipment. Wait for 1 to 2 hours in Stand-by to dry the equipment.

Disc does not play

- No disc in the machine.
 - Place a disc onto the tray.
- Disc incorrectly loaded.
 - Ensure that the DVD disc is in the drawer with the label uppermost.
- Wrong type of disc. The machine cannot play CD-ROMS etc.
- The region code of the DVD must match the player.

Wrong OSD language

- Select the language in the set-up menu.

The language for the sound or subtitles on a DVD cannot be changed.

- Multilingual sound and/or subtitles not recorded on the DVD.
- Try to change the sound or subtitles using DVD's title menu. Some DVD's do not allow the user to change these settings without using the disc's menu

Some functions (Angle, Zoom etc) do not work

- These functions are not available on the DVD.
- Angle can only be changed when the angle symbol is displayed.

No picture

- Have you pressed the correct buttons on the remote control? Try once more.

No sound

- Check the volume is set to an audible level.
- Make sure you have not switched the sound off accidentally.

Distorted sound

- Check that the appropriate listening mode setting is correct.

No response from remote control

- Make sure the remote control is in the correct mode.
- Check batteries are fitted correctly.
- Change the batteries.

If nothing works

If you have tried the above solutions and none seem to work, try switching your TV-DVD off and on again. If this does not work, contact your supplier or TV-DVD repair technician. **Never attempt to repair a defective TV-DVD yourself.**

Definition Of Terms

Angle

Recorded onto some DVD discs are scenes, which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs, the ANGLE button can be used to view the scene from different angles.

Chapter Number

These numbers are recorded on DVD discs. A title is subdivided into many sections, each of which are numbered, and specific parts of video presentations can be searched quickly using these numbers.

DVD

This refers to a high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG II) and high-density recording technology. DVD enables aesthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded).

DVD has a structure consisting of two 0.6-mm thin discs, which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD disc has a greater capacity than a single 1,2 mm thick disc. Since the two thin discs are adhered to each other, there is the potential to achieve double-sided play sometime in the future for even longer duration play.

Playback Control

This is recorded on a Video CD (Version 2.0). The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor.

Subtitles

These are printed lines appearing at the bottom of the screen, which translate or transcribe the dialogue. They are recorded on the DVD discs.

Time Number

This indicates the playtime, which has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (Not all discs permit the time search feature to be used. Availability is determined by the disc's manufacturer.)

Title Number

These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Track Number

These numbers are assigned to the tracks, which are recorded on AudioCDs. They enable specific tracks to be located quickly.

Video CD

This contains recordings of pictures and sound whose quality is on a par with that of videotape. This player also supports Video CDs with playback control (Version 2.0).

Dolby Pro Logic

This is Dolby Laboratories' technology to decode Dolby Surround encoded programs actively. Dolby Surround programs have four channels of audio (Left, Center, Right and Surround) encoded into a standard 2-channel stereo signal.

PCM

PCM stands for Pulse Code Modulation and is digital audio.

MPEG

Short for Moving Picture Experts Group. This is an international standard for compression of moving images. On some DVDs digital audio has been compressed and recorded in this format.

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