

1080p
Full HD

OWNERS INSTRUCTIONS

TFT LCD TV - *Built in DVD/DivX(Optional) Player*

42"

English

Before using this product, please read the security instructions first
and bear them in mind when using the product.

Safety Instruction

Warning

TO PREVENT FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

| | | |
|--|--|---|
|  | CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN NO USER-SERVICEABLE PARTS INSIDE |  |
| CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. | | |



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED. DANGEROUS VOLTAGE. WITHIN THE PRODUCTS ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.

Important Safety Instructions

This equipment 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. So, please read the points below for your own safety. They are of a general nature, intended to help you with all your electronic consumer products and some points may not apply to the goods you have just purchased.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- This TV is not completely disconnected from a power supply line, as minute current is consumed even when the POWER switch is turned off.
- Do not place hot objects or naked flame sources, such as lighted candles or nightlights on, or close to the TV. High temperatures can melt plastic and lead to fires.
- Do not set on top of the TV any object or container that might spill liquids or small objects into the TV.

- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION: *Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.*

Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste.

Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

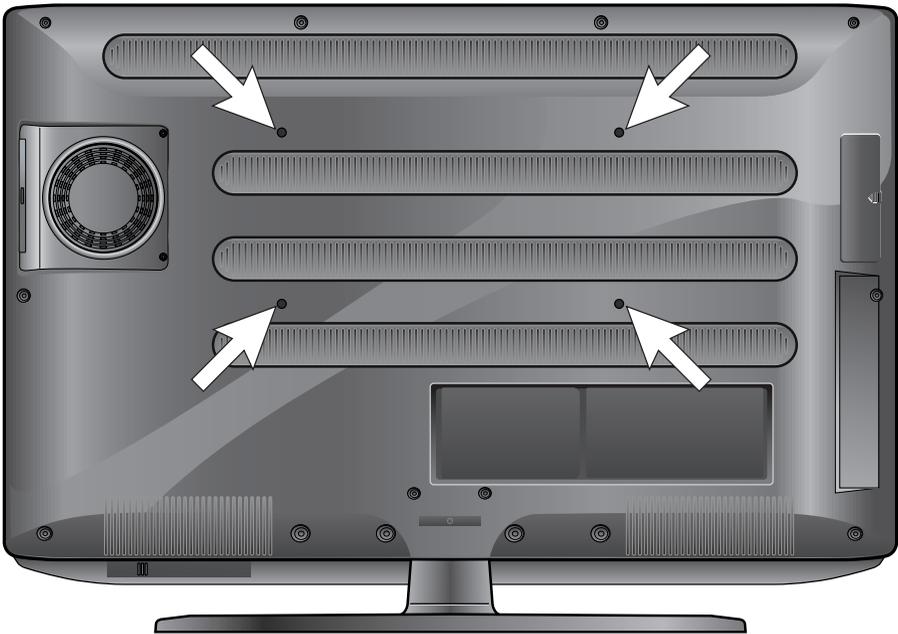
By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Using ARM on the Outer Wall

This LCD TV is available for installing Wall Mount Rack. When you install Wall mount rack to this product, please make sure to use the same manufacturer's Wall mount rack as LCD TV.

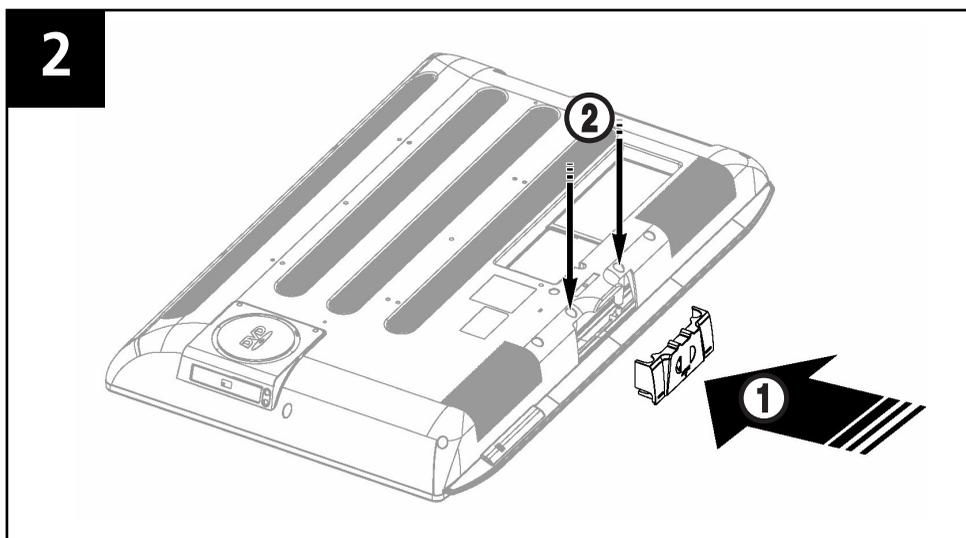
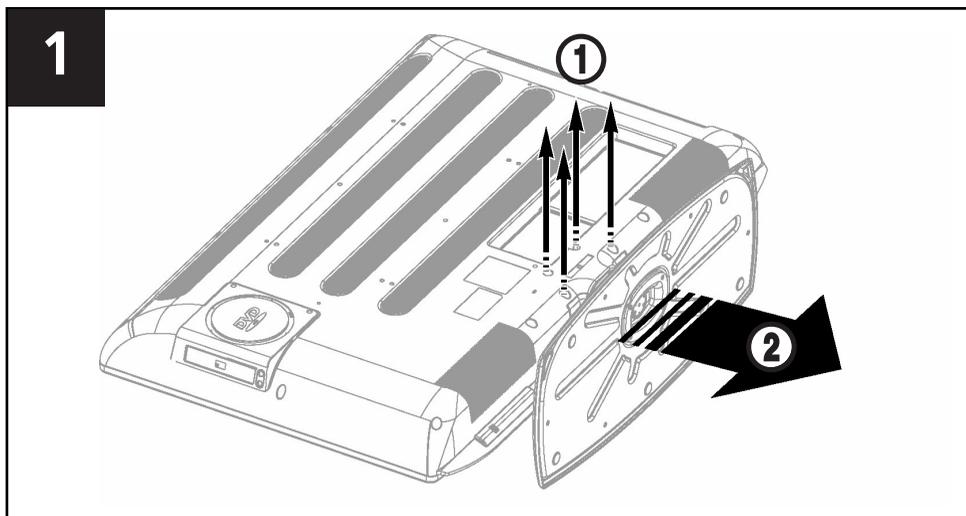
Regarding purchasing Wall mount Rack, please contact the shop you purchased LCD TV.

Detailed installing procedure of Wall mount rack, please referring to "Wall Mount Rack Installing Guide".



Installing the Stand neck-Cover

- Place the TV face down on a soft cloth or cushion on a table.
- Install the stand neck cover following the picture below.



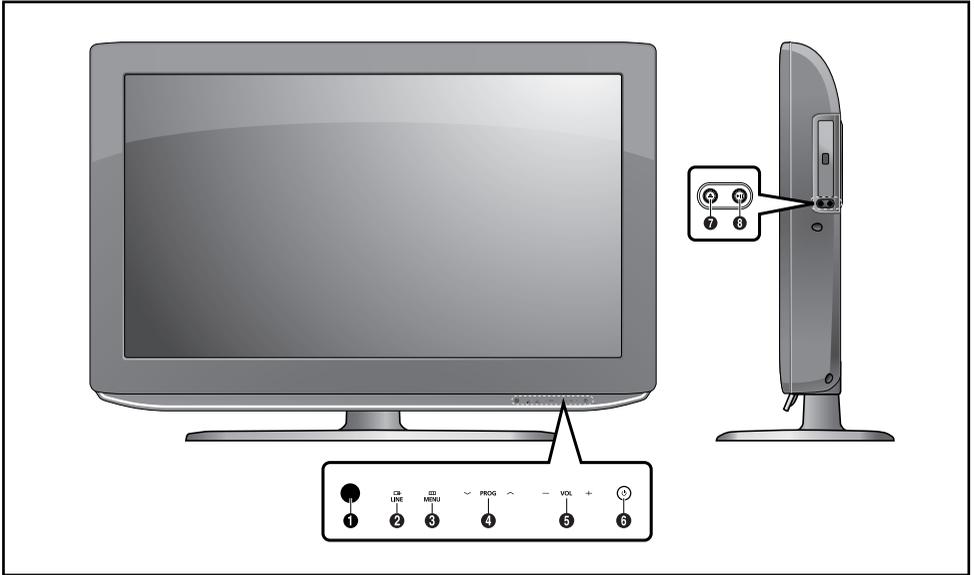
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Overview

Front View

•LV

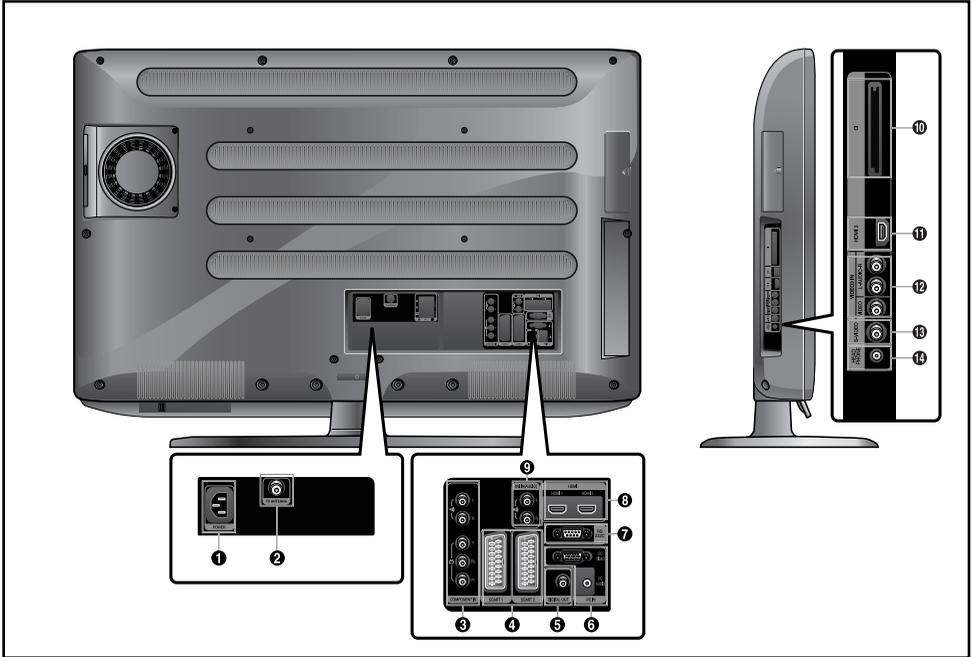


- ❶ Remote Control Sensor
- ❷ LINE(AV) : External input selection.
- ❸ MENU: To access or close menus, simultaneously.
- ❹ PROG: Changes channels or "MOVE" to items on the on-screen menu.
- ❺ VOL: Increases or decreases the volume. This is also used to select the MOVE/ PREV item on the on-screen menu.
- ❻ POWER: Turns the TV on and off.

<DVD> Depend on the model

- ❼ OPEN/CLOSE: OPEN/CLOSE the DVD.
- ❽ PLAY/PAUSE: Play the DVD or temporarily stop playback.

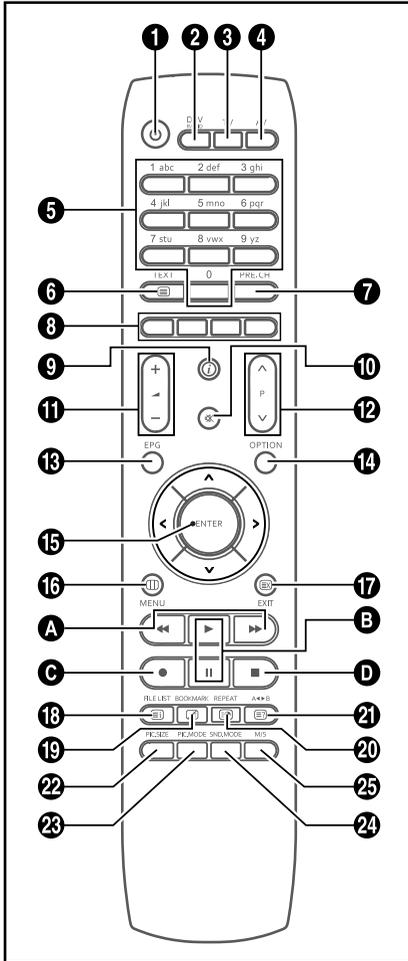
Rear Panel Jacks



- | | |
|---|---|
| ❶ POWER INPUT CONNECTOR | ❷ RS-232C INPUT JACK (UPGRADE) |
| ❷ TV ANTENNA INPUT JACK | ❸ HDMI 1, 2 INPUT, DVI INPUT (VIDEO) JACK |
| ❸ COMPONENT JACKS (VIDEO : Y, Pb, Pr/AUDIO : L/R) | ❹ DVI INPUT (AUDIO:L/R) JACK |
| ❹ SCART JACKS (LEFT: SCART1, RIGHT : SCART2) | ❺ COMMON INTERFACE |
| ❺ DIGITAL AUDIO OUTPUT JACK | ❻ HDMI 3 INPUT JACK |
| ❻ PC INPUT (VIDEO/AUDIO) JACKS | ❼ VIDEO3 (VIDEO/AUDIO) INPUT JACKS |
| ❼ RS-232C INPUT JACK (UPGRADE) | ❽ S-VIDEO INPUT JACK |
| ❽ HDMI 1, 2 INPUT, DVI INPUT (VIDEO) JACK | ❾ HEADPHONE JACK |
| ❽ DVI INPUT (AUDIO:L/R) JACK | : Used for headphones that can be purchased additionally. |

For more details on connections see page 9-11.

Remote Control



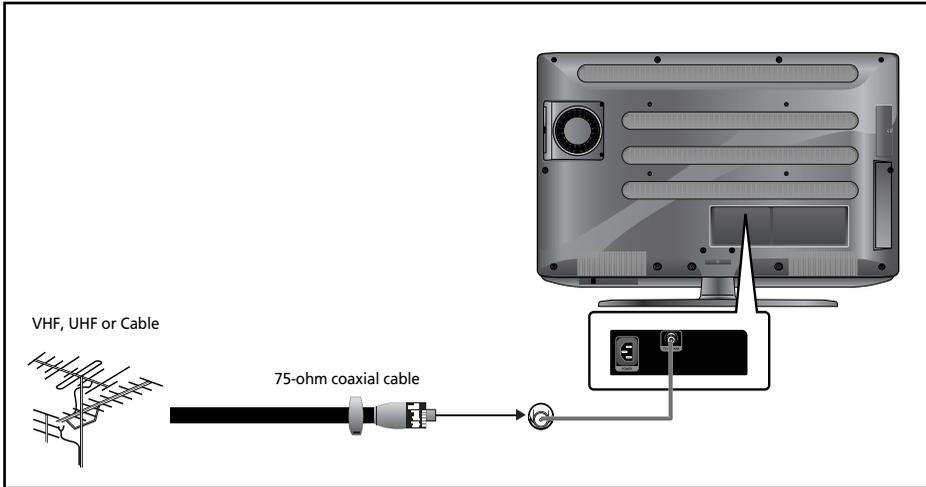
- ❶ **POWER:** Turns the TV on and off.
- ❷ **DTV/RADIO:** Switches to DVB-T mode.
- ❸ **TV:** Switches to TV mode.
- ❹ **AV:** External input selection.
- ❺ **NUMBER BUTTONS:** Selects channels directly on the TV.
- ❻ **TEXT:** Switches to Teletext mode.
- ❼ **PRE.CH:** Moves to the previous channel.
- ❽ **COLOUR BUTTONS**
- ❾ **TV** - Displays the current channel and the audio-video settings.
DTV - Display the current channel information.
- ❿ **⊘ (MUTE):** Temporarily mute the sound.
- ⓫ **▲ (VOLUME):** Increases or decreases the volume.
- ⓬ **P (CHANNEL):** Changes channels.
- ⓭ **EPG:** Electronic program guide.
- ⓮ **OPTION:** Displays the Configuration Menu in DVD or DTV mode.
- ⓯ **</>/√/∧/ENTER:**
 Select an item of menu / Change confirmation.
- ⓯ **MENU:** Displays the OSD menu.
- ⓯ **EXIT:** Exit the current configuration /
 To exit from the teletext display.
- ⓯ **INDEX/FILE LIST:** Programme selection by name /
 File list.
- ⓯ **MIX/BOOKMARK:** Video & TTX MIX /
 To SAVE a specific frame for later viewing.
- ⓯ **SUB PAGE/REPEAT:** Teletext SUB-PAGE /
 For specifying and repeating playback of a segment.
- ⓯ **REVEAL/A:** Teletext reveal /
 For repeated playback of disc titles, chapters or sound.
- ⓯ **PIC.SIZE:** Change the screen size.
- ⓯ **PIC.MODE:** Change the picture status.
- ⓯ **SND.MODE:** Change the sound mode.
- ⓯ **M/S:** Sound mode selection.

<DVD> - Depend on the model

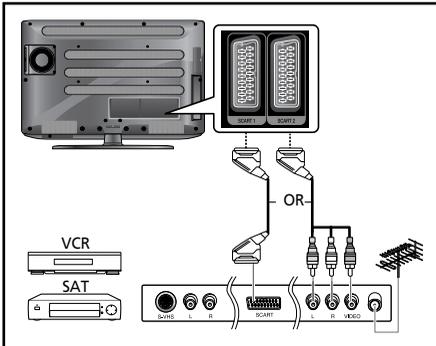
- Ⓐ **◀ / ▶ :** Skip forward - Reverse /
 For fast and slow playback (press and hold the button over 2seconds).
- Ⓑ **▶ / || :** Play the DVD / Temporarily stop playback.
- Ⓒ **● :** Record (PVR ONLY)
- Ⓓ **■ :** Stop the DVD playback.

Connecting Your TV

Connecting an Antenna or Cable without a Decoder box



Connecting the Scart Jack



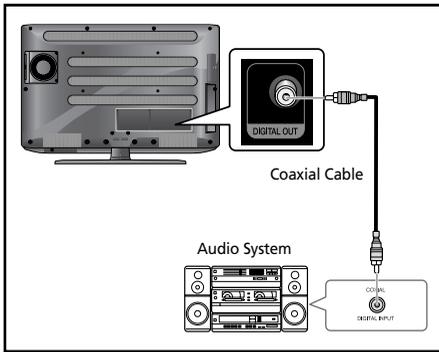
Connection Procedures

- SCART1 is used for the equipment with an RGB output, such as video game devices or video disc players. This end can be fitted with:
 - A SCART connector
 - Three RCA connectors (VIDEO+AUDIO_L+AUDIO_R)

Procedures for watching a Video over a VCR

- Turn the TV on, and select 'VIDEO1' using the **AV** button on the remote control.
- If you have a second VCR and wish to copy cassette tape, connect the source VCR to **SCART1** and the target VCR to **SCART2** so that you can redirect the signal from **SCART1** to **SCART2**.

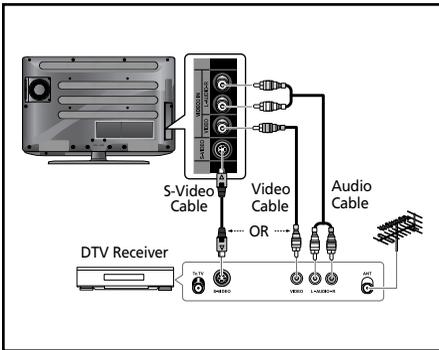
Connecting a Digital Audio System



Connection Procedures

- 1 Connect the DIGITAL OUT jack on the back of your TV to the DIGITAL IN jack of the Decoder or AV amplifier.
- 2 Turn the digital amp on and select the external input mode.

Connecting the Video or S-Video/Audio Jacks



Connection Procedures

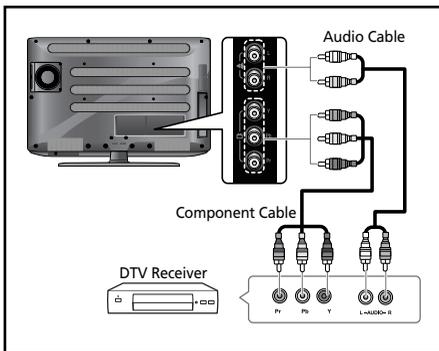
- 1 Connect the antenna cable to the ANTENNA IN terminal on the back of your VCR.
- 2 Connect the VIDEO/AUDIO INPUT jacks of the TV and the video/audio output jacks of your VCR with the video/audio cables. (Connect the cable to the terminal of the same color)
 - You can use the S-Video cable to connect a VCR or a DVD player for better video quality.

Procedures for watching a video over a VCR

Turn the TV on, and select 'VIDEO 3' using the **AV** button on the remote control.

- If you have connected a S-Video cable, select 'S-VIDEO'.

Connecting the DTV Receiver



Connection Procedures

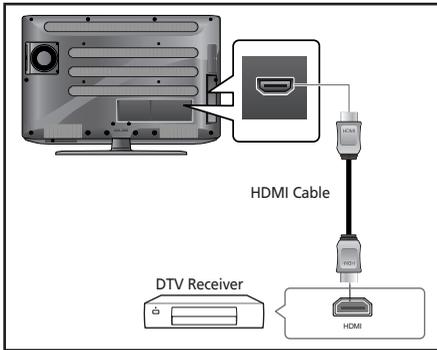
- 1 The **COMPONENT VIDEO IN** and **COMPONENT AUDIO IN** connectors are used for equipment with a DVD or DTV receiver out. (480i/60Hz, 480p/60Hz, 576i/50Hz, 576p/50Hz, 720p/50Hz, 720p/60Hz, 1080i/50Hz, 1080i/60Hz, 1080P/50Hz, 1080P/60Hz)

To watch the DTV

- 1 Turn the TV on, and select 'COMPONENT' using the **AV** button on the remote control.
- 2 Turn the DTV Receiver on.

Connecting the HDMI JACK

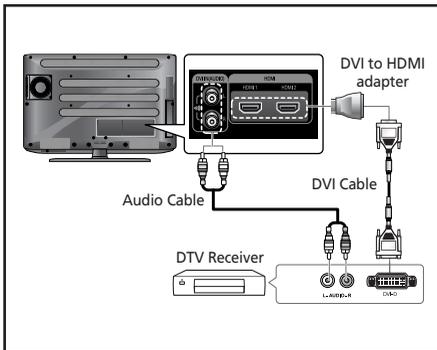
•Warning : Do not Connect DVI audio cable.



Connection Procedures

- 1 Connect the HDMI input jack of the TV and the HDMI output jack of your DTV Receiver (480p/60Hz, 576p/50Hz, 720p/50Hz, 720p/60Hz, 1080i/50Hz, 1080i/60Hz, 1080P/50Hz, 1080P/60Hz).

Connecting the HDMI JACK (USE DVI JACK)



Connection Procedures

- 1 Connect the HDMI input jack of the TV and the DVI output jack of your DTV Receiver (Using the adapter or HDMI cable).
- 2 Connect the DVI audio input jacks of the TV and the DVI audio output jacks of your DTV Receiver with the audio cable (480p/60Hz, 576p/50Hz, 720p/50Hz, 720p/60Hz, 1080i/50Hz, 1080i/60Hz, 1080P/50Hz, 1080P/60Hz).
- 3 VESA Standard Mode (Resolution/Vertical Frequency), refer to page 56.

Check Before Using

Please check the following check list before using the TV.

- 1 Is the antenna cable connected properly?
- 2 Are the remote control batteries installed properly?
 - Install two AAA size batteries according to the correct polarity.
 - The remote control works up to about 7~10m from the TV, 3m to the left or right of the TV, and to within 30 degrees from the remote control sensor of the TV.

- 3 Have the receive channels been configured?
- 4 Are the cables connected to any external devices connected properly?

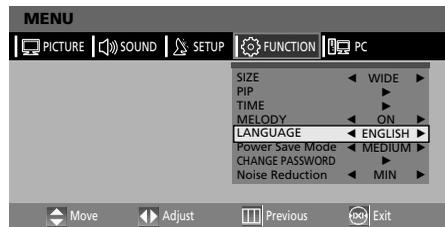
Watching TV

Turning the TV On and OFF

- 1 Plug the mains lead into an appropriate socket.
- 2 Press the **POWER**() button on the remote control (or on the front panel of the unit.)
You can also switch on by pressing the **P**   buttons.
 - when you power on this product in the first time, the product will ask you language selection, country selection on the screen menu.
Thus, you should select desired status by   and **ENTER** button.

Selecting the Menu Language

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select **FUNCTION** using the  button.
- 3 Select **LANGUAGE** using the  button and then press the  button.
- 4 Select the desired menu language using the  button.
- 5 Press the **EXIT** button to exit the menu.



Viewing the Status Information

Press the  button on the remote control. The TV will display the input source, the picture mode, the sound mode, the STEREO mode, the sleep time, the current time, and the pip mode.

Adjusting the Volume

Adjust the volume using the  +/- button.

Muting the Sound

Press the  button. You can conveniently use the  button when a telephone or a door bell rings. To cancel, press the  button again.

Viewing a Video, DVD or COMPONENT

Press the **AV** button. For connection and setup procedures, refer to page 9-11.

Storing Channels Automatically

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select **SETUP** using the **</>** button.
- 3 Select **ATV SETUP** using the **▼/▲** button and then press the **>** button.
- 4 Select **AUTO PROGRAMMING** using the **▼/▲** button and then press the **>** button.
- 5 Select your **COUNTRY** using the **</>** button and then press the **▼** button.

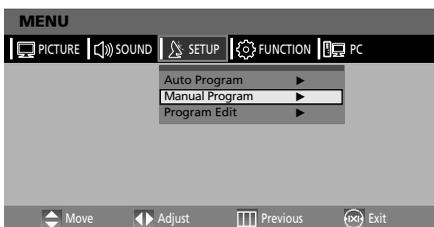


Manual Storing of Channels

When storing channels manually, you can choose:

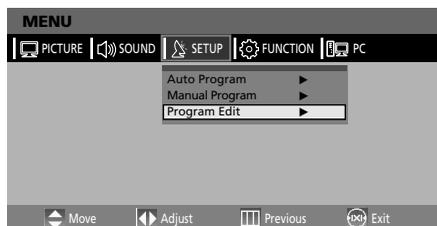
- Whether or not to store each of the channels found.
- The programme number by which you wish to identify each stored channel.

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select **SETUP** using the **</>** button.
- 3 Select **ATV SETUP** using the **▼/▲** button and then press the **>** button.
- 4 Select **MANUAL PROGRAM** using the **▼/▲** button and then press the **>** button.
- 5 Select **SYSTEM** using the **</>** button.
AUTO → BG → I → DK → M → L → LP → AUTO
- 6 Select **PROGRAM NO.** using the **▼/▲** button and press the **</>** button to select the required channel number.
- 7 Select **SEARCH** using the **▼/▲** button and then press the **>** button.
The tune scans the frequency range until the first channel on the channel that you selected is received on your screen.
- 8 Select **STORE** using the **▼/▲** button and then press the **>** button.
- 9 Repeat Step 6 to 8 for each channel to be stored.



Channel Name

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select SETUP using the </> button.
- 3 Select ATV SETUP using the ∇/\wedge button and then press the > button.
- 4 Select Program Edit using the ∇/\wedge button and then press the > button.
- 5 Select NAME using the </> button and press the </>/ ∇/\wedge buttons to edit the name.
 ∇/\wedge : Select the characters
(A~Z, 0~9, -, , , =, /, *).
</> : move on the previous or next letter.
- 6 Press the **EXIT** button to exit the menu.



Activating the Child Lock

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programs by muting out video and audio. Child Lock cannot be released using front panel buttons. Only remote control can release the Child Lock setting, so keep the remote control away from children.

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select SETUP using the </> button.
- 3 Select ATV SETUP using the ∇/\wedge button and then press the > button.
- 4 Select MANUAL PROGRAM using the ∇/\wedge button and then press the > button.
- 5 Select CHILD LOCK using the ∇/\wedge button.
- 6 To lock the channel, select LOCK by pressing the </> button.



Activating the Child Unlock

- 1~5 STEP1~STEP5 is the same as that of Activating the Child Lock.
- 6 When a login dialog box appears, enter the password to deactivate the CHILD LOCK.

Note

- When child lock is activated, only entering the correct password will proceed to the operation before you can do auto or manual searches. Everything previously locked will be unlocked.

Program Edit

This function enables you to delete, copy, move or skip the stored programs.

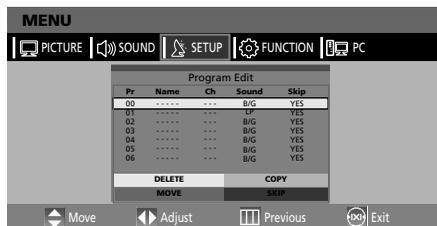
- 1 Select the channel to tune using the numeric or channel buttons.
- 2 Press the **MENU** button. The OSD MENU will be displayed.
- 3 Select SETUP using the **</>** button.
- 4 Select ATV SETUP using the **∇/∧** button and then press the **>** button.
- 5 Select PROGRAM EDIT using the **∇/∧** button and then press the **>** button.

Delete a Program

- 1 Select a program to be deleted with the **∇/∧** buttons.
- 2 Press the **RED** button. The selected program is deleted.
All the following programs are shifted up one position.

Moving a Program

- 1 Select a program to be moved with the **∇/∧** buttons.
- 2 Press the **GREEN** button.
- 3 Move the program to the desired program number with the **∇/∧** buttons.
- 4 Press the **GREEN** button again to release this function.



Copy a Program

- 1 Select a program to be copied with the **∇/∧** buttons.
- 2 Press the **YELLOW** button. Move the program to the desired program number with the **∇/∧** buttons. All the following programs are shifted down one position.
- 3 Press the **YELLOW** button again to release this function.

Skipping a Program Number

- 1 Select a program to be skipped with the **∇/∧** buttons.
- 2 Press the **BLUE** button. The skipped program turns to 'YES'.
- 3 Press the **BLUE** button again to release this function.
When a program number is skipped it means that you will be unable to select it using the **∇/∧** button during normal TV viewing. If you want to select the skipped program, directly enter program number with the number buttons or select it in the program edit or table menu.

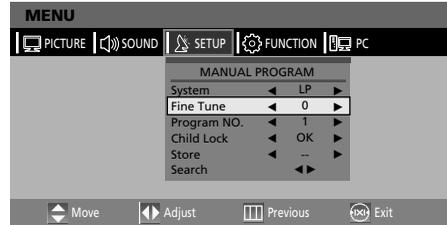
Changing Channel

- 1 Using the **P∇/∧** buttons
Press the **P∇/∧** buttons to change channels. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.)
- 2 Using the Previous Channel
Press the **PRE.CH** button on the remote control. The TV changed to the last channels to the last channel you were watching.

When the Picture Quality is Poor or Unstable

Use fine tuning to adjust a particular channel for better picture quality when noise interferes, color quality is poor, or the screen is unstable.

- 1 Select the channel to tune using the numeric or channel buttons.
- 2 Press the **MENU** button.
The OSD MENU will be displayed.
- 3 Select **SETUP** using the **</>** button.
- 4 Select **ATV SETUP** using the **∇/▲** button and then press the **>** button.
- 5 Select **MANUAL PROGRAM** using the **∇/▲** button and then press the **>** button.
- 6 Select **FINE TUNE** using the **∇/▲** button and then press the **</>** button to fine tune.
If you are unable to fine-tune a channel, check that the **SYSTEM** settings are correct.
- 7 Select **STORE** using the **∇/▲** button and then press the **>** button.
- 8 Press the **EXIT** button to exit the menu.



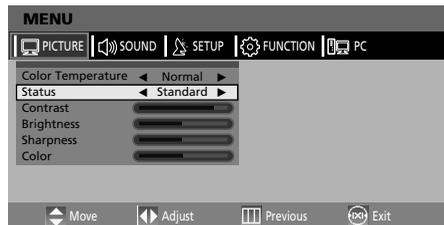
Selecting the Picture Status

You can select a video mode from among **USER**, **STANDARD**, **DYNAMIC**, or **MILD** mode according to your personal preference.

QUICK! Press the **PIC.MODE** button.

Whenever you press this button, **PICTURE STATUS** changes to **STANDARD** → **DYNAMIC** → **MILD** → **USER** mode, in this order.

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select **PICTURE** using the **</>** button.
- 3 Select **STATUS** using the **∇/▲** button.
- 4 Select the desired **PICTURE STATUS** using the **</>** button. Whenever you press this button, **PICTURE STATUS** changes to **STANDARD** → **DYNAMIC** → **MILD** → **USER** mode, in this order.
- 5 Press the **EXIT** button to exit the menu.

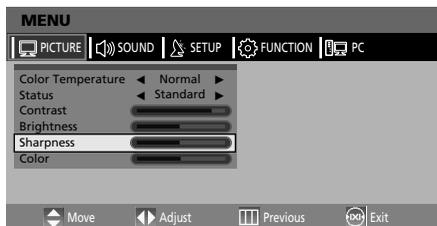


Picture Status

- **STANDARD:** Select this mode when the surrounding illumination is bright.
- **DYNAMIC:** Select this mode to increase picture clarity and sharpness.
- **MILD:** Select this mode when viewing the TV when the light is low.
- **USER:** Select this mode if you want to adjust the settings according to your personal preferences.

Adjusting the Picture Settings

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select PICTURE using the **</>** button.
- 3 Select the desired item to adjust using the **∨/∧** button.
- 4 Select the desired status using the **</>** button. In addition, PICTURE STATUS is automatically changed to USER mode.
- 5 Press the **EXIT** button to exit the menu.



Picture

- **Color Temperature:** Determines the temperature of colour tone. Status changes to Cool2 → Cool1 → Normal → Warm1 → Warm2 mode in this order.
- **CONTRAST:** Determines the difference in brightness between an object and the background.
- **BRIGHTNESS:** Determines the brightness of the screen.
- **SHARPNESS:** Determines the sharpness of an object image.
- **COLOR:** Determines the color density.

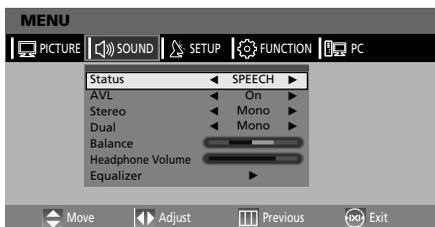
Selecting the Sound Mode

You can select a sound mode from among **STANDARD**, **MUSIC**, **SPEECH** or **USER** mode according to your personal preference.

QUICK! Press the **SND.MODE** button.

Whenever you press this button, **SOUND STATUS** changes to **STANDARD** → **MUSIC** → **SPEECH** → **USER** mode, in this order.

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select **SOUND** using the **</>** button.
- 3 Select **STATUS** using the **∨/∧** button.
- 4 Select the desired status using the **</>** button. Whenever you press this button, **SOUND STATUS** changes to **STANDARD** → **MUSIC** → **SPEECH** → **USER** mode, in this order.
- 5 Press the **EXIT** button to exit the menu.



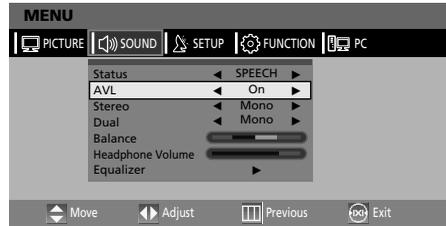
Sound Status

- **STANDARD:** Select this to listen to sound normally.
- **MUSIC:** Select this to listen to the original sound.
- **SPEECH:** Select this to listen to clear voice sound.
- **USER:** Select this if you want to adjust the settings according to your personal preferences.

Selecting the AVL Mode

If you switch AVL to on, the set automatically keeps on an equal volume level.

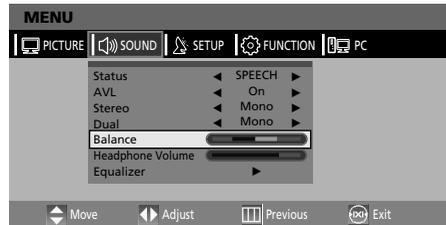
- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select SOUND using the </> button.
- 3 Select AVL using the √/∧ button.
- 4 Select the desired status using the </> button.
- 5 Press the **EXIT** button to exit the menu.



Adjusting the BALANCE

Determines the volume ratio between the left and right speakers.

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select SOUND using the </> button.
- 3 Select BALANCE using the √/∧ button.
- 4 Select the desired status using the </> button. Also, the Sound Status is automatically changed to USER mode.
- 5 Press the **EXIT** button to exit the menu.

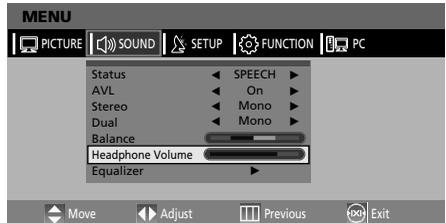


Adjusting the Headphone Volume

You can listen to the sound of the main or sub PIP using the headphones. You can also adjust the volume of the headphones.

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select SOUND using the </> button.
- 3 Select HEADPHONE VOLUME using the √/∧ button.
- 4 Select the desired volume level using the </> button.

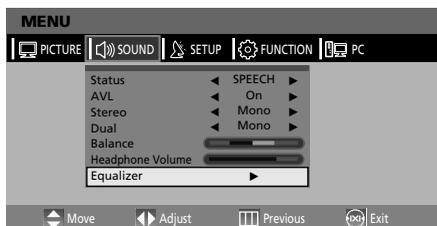
Prolonged use of headphones at a high volume may damage your hearing.



Adjusting the Equalizer

Determines the volume of the frequency range (low to high tones).

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select **SOUND** using the **</>** button.
- 3 Move to the **EQUALIZER** item using the **∨/∧** button and then press the **>** button.
During the adjustment an additional adjustment window will be displayed.
- 4 Move to the desired frequency using the **>** button.
- 5 Select the desired status using the **∨/∧** button.
When you have adjusted the **EQUALIZER**, the **SOUND STATUS** is automatically changed to **USER MODE**.

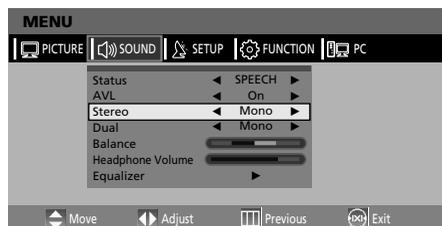


Choosing a Soundtrack

The **M/S** button displays/controls the processing and output of the audio signal. When power is switched ON, the mode is automatically preset to either **DUAL** or **STEREO**, depending on the current transmission.

Quick! Pressing the **M/S** button. Whenever you press this button, the mode changes to **STEREO/MONO** mode, in this order.

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select **SOUND** using the **</>** button.
- 3 Select **STEREO** or **DUAL** using the **∨/∧** button.
- 4 Select the desired status using the **</>** button.



- 5 Press the **EXIT** button to exit the menu.
 - If the receiving conditions deteriorate, listening will be easier if the mode is set to the **MONO** position using the **M/S** button.
 - If the stereo signal is weak (or if intermittent Stereo-Mono) and automatic switching occurs, then switch to the **MONO** mode.
 - If the mono sound comes out only from the left speaker, then press the **M/S** button.

| | Type of broadcast | On-Screen |
|--------------|--------------------|------------------------|
| NICAM STEREO | Standard broadcast | MONO |
| | Regular+NICAM MONO | MONO |
| | NICAM STEREO | NICAM STEREO ↔ MONO |
| | NICAM DUAL | NICAM MAIN → NICAM SUB |
| A2 STEREO | Standard broadcast | MONO |
| | Bilingual or DUAL | MAIN ↔ SUB |
| | STEREO | STEREO ↔ MONO |

Changing the Screen Size

You can select a desired screen size for each video.

Press the **PIC.SIZE** button.

Whenever you press the **PIC.SIZE** button, the screen size changes to WIDE → 14:9 → 4:3 → ZOOM1 → ZOOM2, in this order.



Screen Size Menu

- **AUTO** : Auto Screen size Control (only TV mode).
- **WIDE** : Set the picture to 16:9 wide mode (default).
- **14:9** : Sets the picture to 14:9 mode (only TV mode).
- **4:3** : Sets the picture to 4:3 normal mode. This is a standard TV screen size.
- **ZOOM1**: Magnifies the size of the picture on the screen.
- **ZOOM2**: Magnifies the size of the picture on the screen leaving the subtitles visible.

Note

- You can select only WIDE, 4:3 screen size in the PC/HDMI Mode.

Viewing Picture-in-Picture

You can watch two videos on the screen simultaneously.

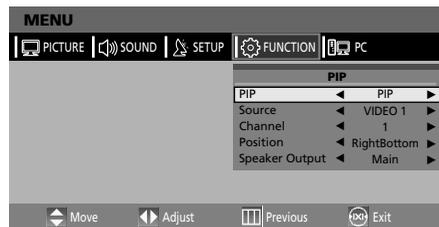
Quick! Press the **OPTION** button to display the PIP MENU.

Select PIP using the **</>** button and then press the **ENTER** button.

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select **FUNCTION** using the **</>** button.
- 3 Select **PIP** using the **∇/∧** button and then press the **>** button.
- 4 The PIP menu will be displayed.
Whenever you press the **</>** button, PIP mode is turned PIP, DW or OFF. Selecting OFF turns off PIP mode.
- 5 Press the **EXIT** button to exit the menu.

Note

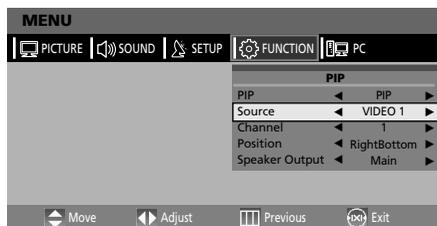
- Since this product has a single tuner, you cannot watch two TV channels simultaneously in PIP mode.
- You can only listen to one sound output from either the main screen or the PIP window.
- Refer to the PIP configuration table (Page 56).



Changing the Source of the PIP Window

You can change the video source of the PIP window from any externally connected devices.

- ①~④ STEP1~STEP4 is the same as that of Viewing Picture-in-Picture.
- ⑤ Select SOURCE using the ∇/\wedge button.
- ⑥ Select the desired external input signal using the \langle/\rangle button. Since this product has a single tuner, you cannot watch two TV channels simultaneously when in PIP mode.
- ⑦ Press the **EXIT** button to exit the menu.



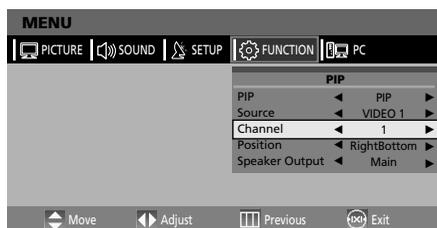
Changing the PIP Window Channel

When the PIP window shows normal broadcasting (TV and CATV) channels, you can change the PIP window channel.

Quick! Press the **P** ∇/\wedge button.

Whenever you press this button, the channel is changed.

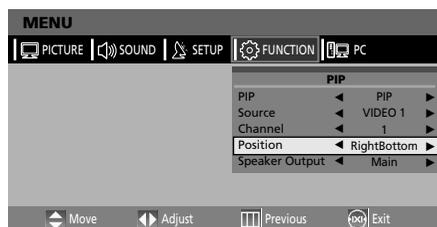
- ①~④ STEP1~STEP4 is the same as that of Viewing Picture-in-Picture.
- ⑤ Select CHANNEL using the ∇/\wedge button.
- ⑥ Select the desired channel using the \langle/\rangle button. Since this product has a single tuner, you cannot watch two TV channels simultaneously when in PIP mode.
- ⑦ Press the **EXIT** button to exit the menu.



Changing the Position of the PIP Window

You can select the location of the PIP window from among the corners of the TV screen.

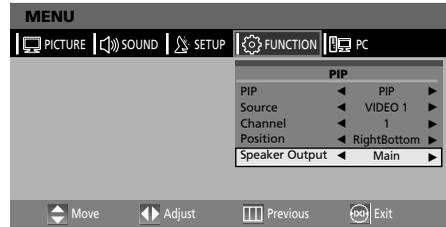
- ①~④ STEP1~STEP4 is the same as that of Viewing Picture-in-Picture.
- ⑤ Select POSITION using the ∇/\wedge button.
- ⑥ Select the desired position using the \langle/\rangle button. Whenever you press this button, the PIP window moves from one corner to the next of the TV screen.
- ⑦ Press the **EXIT** button to exit the menu.



Selecting the Speaker Output in the PIP Screen Mode

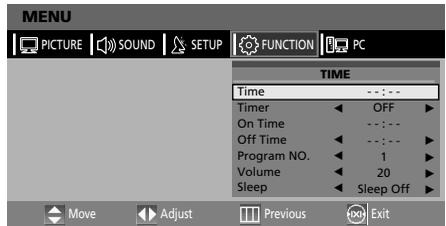
You can select the desired audio source from either the main screen or the PIP window.

- 1~4 STEP1~STEP4 is the same as that of Viewing Picture-in-Picture.
- 5 Select **SPEAKER OUTPUT** using the **▼/▲** button.
- 6 Select a desired status (**MAIN** or **PIP**) by pressing the **</>** button.
- 7 Press the **EXIT** button to exit the menu.



Setting the Clock

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select **FUNCTION** using the **</>** button.
- 3 Select **TIME** using the **▼/▲** button and then press the **>** button.
- 4 Move to the Hour using the **>** button and then set the Hour to the correct time using the **▼/▲** button.
- 5 Move to the Minute using the **>** button and then set the Minutes to the correct time using the **▼/▲** button.
- 6 Press the **EXIT** button to exit the menu.



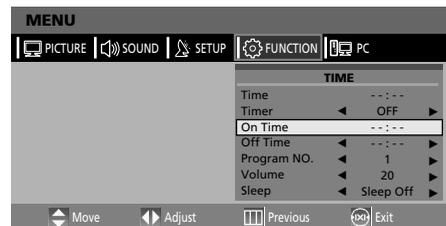
Setting the On/Off Timer

You can set the On/Off Timer to automatically turn the TV on and off at a desired time. The current time has to be configured first to set the On/Off Timer.

- 1~3 STEP1~STEP3 is the same as that of Setting the clock.
- 4 Select **TIMER** using the **▼/▲** button.
Select **ON** using the **</>** button.
- The ON/OFF TIMER works only when the timer is configured to ON.

Example : Turning On At 6:10 AM

- 5 Move to **ON TIME** using the **▼/▲** button.
- 6 Move to the Hours using the **>** button and then set the Hour to 06 using the **▼/▲** button.
- 7 Move to the Minute using the **>** button and then set the Minutes to 10 using the **▼/▲** button.

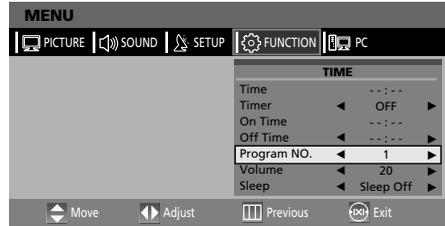


- 8 Press the **>** button to finish the ON TIME configuration.
- 9 Press the **EXIT** button to exit the menu.
For Off timer setting, select OFF TIME instead of ON TIME.

Selecting the ON Timer Channel/Adjusting the ON Timer Volume

You can configure the channel and volume to play when the TV is turned on by the Timer.

- 1~3 STEP1~STEP3 is the same as that of Setting the clock.
- 4 Select PROGRAM NO. using the ∇/\blacktriangle button.
- 5 Select the desired channel to watch when the TV is turned on using the ∇/\blacktriangle button.
- 6 Select VOLUME using the ∇/\blacktriangle button.
- 7 Select the volume level for when the TV turns on using the $\blacktriangle/\blacktriangleleft$ button.

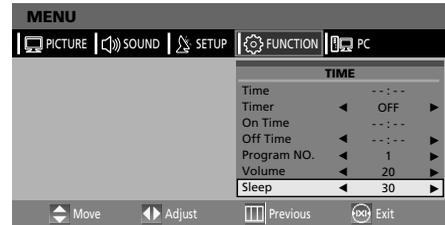


- 8 Press the **EXIT** button to exit the menu.

Setting the Sleep Timer

You can shut off the TV after a desired period of time.

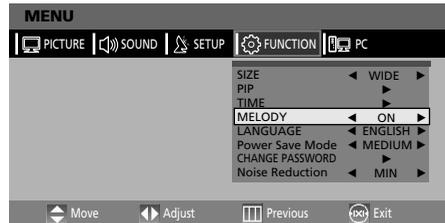
- 1~3 STEP1~STEP3 is the same as that of Setting the clock.
- 4 Select SLEEP using the ∇/\blacktriangle button.
- 5 Configure the SLEEP time using the $\blacktriangle/\blacktriangleleft$ button.
- 6 Press the **EXIT** button to exit the menu.



Melody Function

If the **MELODY** function is turned on, a melody plays whenever the TV is turned on or off.

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select **FUNCTION** using the $\blacktriangle/\blacktriangleleft$ button.
- 3 Select **MELODY** using the ∇/\blacktriangle button.
- 4 Select **ON** using the $\blacktriangle/\blacktriangleleft$ button.
Whenever you press this button, the Melody function is either on or off.



- 5 Press the **EXIT** button to exit the menu.

Change Password

To play or unlock a locked channel in CHILD LOCK channel mode requires password.

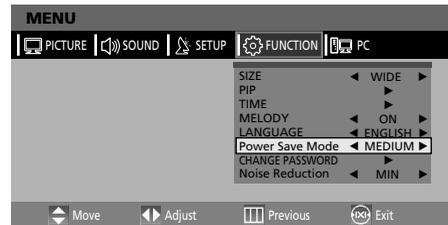
- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select FUNCTION using the </> button.
- 3 Select CHANGE PASSWORD using the √/∧ button and then press the > button.
- 4 Enter the password using the **numeric** button.
Initial password is 0000.
- 5 Enter the change password using the **numeric** button.



- 6 To confirm, enter the confirm new password using the **numeric** button.
Please remember the password should be a 4 digit **numeric** value.

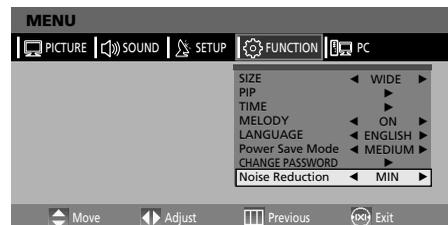
Power Save Mode

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select FUNCTION using the </> button.
- 3 Select POWER SAVE MODE using the √/∧ button.
- 4 Select the desired status using the </> button.
- Whenever you press this button, the mode is changes to MIN → MEDIUM → MAX, in this order.



Noise Reduction

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select FUNCTION using the </> button.
- 3 Select NOISE REDUCTION using the √/∧ button.
- 4 Select the desired status using the </> button.
- Whenever you press this button, the mode is changes to MIN → MEDIUM → MAX, in this order.



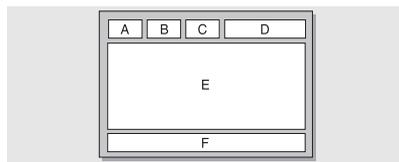
TTX Function

Teletext

Most television channels provide written information services via teletext. Information provided includes:

- Television program times
- News bulletins and weather forecasts
- Sports results
- Travel information.

This information is divided into numbered pages (see diagram).



| Part | Contents |
|------|--|
| A | Selected page number. |
| B | Broadcasting channel identity. |
| C | Current page number or search indications. |
| D | Date and time. |
| E | Text. |
| F | Status information. |

Displaying the Teletext Information

You can display Teletext information at any time on your television.

For Teletext information to be displayed correctly, channel reception must be stable; otherwise:

- Information may be missing
- Some pages may not be displayed

- ❶ Select the channel providing the Teletext service using the **P▲** or **P▼** button.
- ❷ Press the **TEXT** (☰) button to activate the teletext mode.

Result: The contents page is displayed. It can be redisplayed at any time by pressing the **INDEX** (☰) button.

- ❸ If you wish to display the actual broadcast at the same time as the teletext page, press the **MIX** (☒) button again.
- ❹ Press the **TEXT** (☰) button to exit from the teletext display.

Selecting a Page by Number

You can enter the page number directly by pressing the numeric buttons on the remote control.

- 1 Enter the three-digit page number given in the content by pressing the corresponding **numeric** buttons.

Result: The current page counter is incremented and the page is then displayed.

Using the various display options:

| To display... | Press the... |
|--|------------------|
| Both teletext information and the normal broadcast twice | TEXT/MIX (⏏/⏏) |
| Hidden text (answers to quiz games, for example) | REVEAL (⏏) |
| The normal screen | REVEAL (⏏) again |
| A secondary page, by entering its 4-digit number | SUBPAGE (⏏) |
| The next page | P ▼ |
| The previous page | P ▲ |

Using FLOF to Select a Page

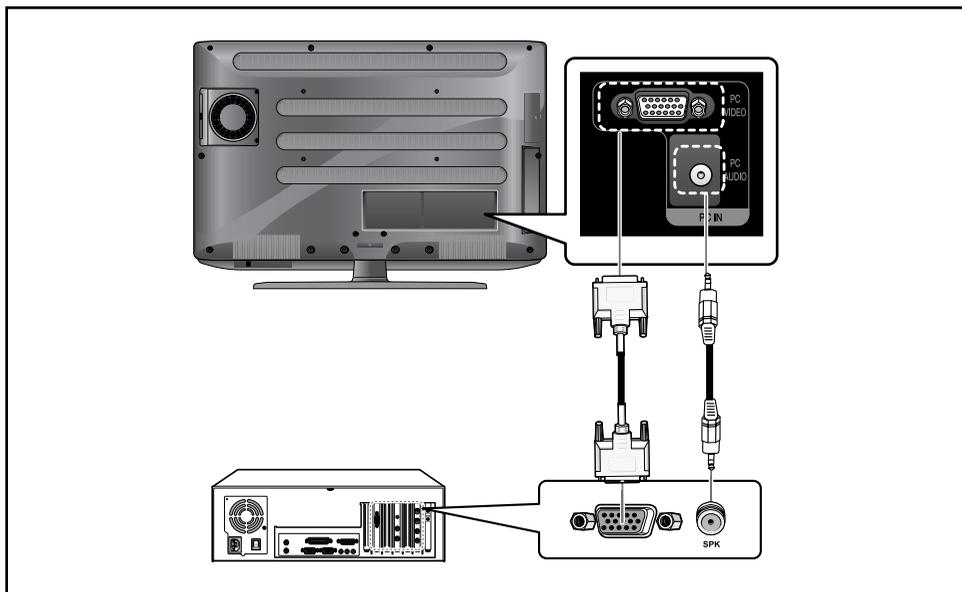
The various topics included in the teletext pages are colorcoded, and can be selected by pressing the colored buttons on the remote control.

- 1 Display the teletext contents page by pressing the **MIX** (⏏) button.
- 2 Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.

Result: The page is displayed with other coloured information that can be selected in the same way.

- 3 To display the previous or next page, press the corresponding coloured button.
- 4 To display the subpage, see the following steps.
 - Press the **SUBPAGE** (⏏) button.
Result: The available subpages appear.
 - Select the required sub-page.
Sub-pages can be scrolled by using the **P ▼** or **P ▲** button.

Connecting to a PC



Connection Procedures

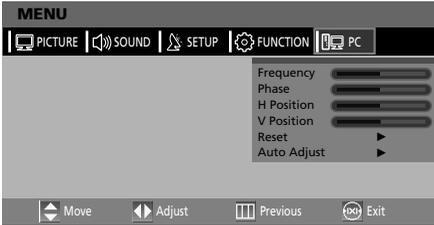
- ❶ Connect the PC D-SUB INPUT jack of the TV and the monitor output jack of the PC using the D-Sub cable.
- ❷ Connect the PC AUDIO jack of the TV and the audio output jack of the PC with the audio cable. (This can only be applied when the PC actually has an audio output jack.)

Procedures for viewing the PC screen through the TV

- ❶ Turn the PC on and check that the PC settings are correct.
 - If the PC settings are incorrect, the screen may display a duplicated or distorted picture.
 - For PC configuration procedures, refer to page 56.
- ❷ Press the **AV** button and select PC INPUT mode.
- ❸ Adjust the PC screen. (For adjustment procedures, refer to page 28.)

Adjusting the PC

- 1 Press the **MENU** button.
The OSD MENU will be displayed.
- 2 Select PC using the **</>** button.



Adjusting the Frequency Position

- 3 Select FREQUENCY using the **∇/▲** button and adjust the frequency using the **</>** button.

Adjusting the Phase Position

- 3 Select PHASE using the **∇/▲** button and adjust the phase using the **</>** button.

Adjusting the Horizontal Position

- 3 Select H POSITION using the **∇/▲** button and adjust the horizontal position using the **</>** button.

Adjusting the Vertical Position

- 3 Select V POSITION using the **∇/▲** button and adjust the vertical position using the **</>** button.

Initializing Settings (RESET)

- 3 Select RESET using the **∇/▲** buttons and then select using the **>** button.
This returns you to the factory default screen.
- 4 Press the **EXIT** button to exit the menu.

Auto Adjust

You can adjust the frequency and the phase of the PC screen automatically.

- 3 Select AUTO ADJUST using the **∇/▲** button and then select using the **>** button.
The PC screen is adjusted automatically.

DVD Function (Depend on the model)

Playing DVD's

Turn on the power of the TV and external audio system. Ensure that the local code of the TV set is matched to that of the disc. (If not matched, your disc cannot be played.)

- ❶ Press the **AV** button.
- ❷ Insert the DVD.
Ensure that the labeled surface is at the front when placing it.

- ❸ DVD Playback.
Your DVD will be automatically played depending on the current program mode.
 - To STOP PLAYBACK, press the **■** button.
 - To temporarily STOP PLAYBACK, press the **||** button.
 - To resume PLAYBACK, press the **▶** button.

Displaying the Playback Status

- ❶ Press the **⌚** button

For DVD Playback

- The ROOT MENU, TITLE REMAIN, CHAPTER ELAPSED, CHAPTER REMAIN is shown.
- Pressing the button again shows the TITLE REMAIN for the chapter.
- Pressing the button again shows the CHAPTER ELAPSED for the chapter.
- Pressing the button again shows the CHAPTER REMAIN for the chapter.
- Pressing the button again exits the status display.

For CD Playback

- The SINGLE ELAPSED for the track is shown.
- Pressing the button again shows the SINGLE REMAIN for the track.
- Pressing the button again shows the TOTAL ELAPSED for the track.
- Pressing the button again shows the TOTAL REMAIN for the track.
- Pressing the button again exits the status display.

Searching for a Specific Screen/Song

You can use one of the functions listed below to jump to a specific chapter or track during playback.

Fast Forward/Reverse

Use this function to play the DISC contents in fastforward or fast reverse. During searching audio will be muted (except CD or MP3).

- ❶ Press and hold the **◀** or **▶** button for over 2seconds.
 - For DVD playback, pressing the button executes the function in the following order: X2 → X4 → X8 → X16 → X32 → X64 → normal.
 - For VCD playback, X2 → X4 → X8 → X16 → X32 → normal
 - For CD/MP3 playback, X2 → X4 → X8 → normal.

Skip Forward/Reverse

Use this function to move to the next or previous chapter for DVD, track for CD and MP3.

- ❶ Press the **◀** or **▶** button.

- When the **◀** button is pressed, playback skips to the next chapter or track during DVD or CD playback.
- When the **▶** button is pressed, playback skips to the beginning of the current chapter during DVD playback and to the previous chapter when it is pressed again.

Slow Forward/Reverse

- ❶ Press the **||** button to resume normal playback.
- ❷ Press and hold the **◀** or **▶** button for over 2seconds.
 - For disc playback, pressing the button executes the function in the following order: X1/2 → X1/4 → X1/8 → X1/16 → X1/32 → X1/64 → NORMAL
- ❸ Press the **▶** button to resume normal playback.

Repeating a Title, Chapter(DVD), Track(CD)

Repeat Playback

This function repeats the playback of a chapter, title or track.

- 1 Press the **REPEAT** button.
 - Each press of the button changes the repeat mode in the following order:
For DVD playback, Chapter → Title → Repeat Off.
For CD playback, Track → Disc → Repeat Off.
- 2 To resume normal playback, press the **REPEAT** button repeatedly until the repeat mode indicator disappears on screen.

Repeating a Specific Section

- 1 During playback, press the **A◀▶B** button at the beginning of the desired section.
 - 2 Press the **A◀▶B** button again at the end of the section. "AB" will be displayed on the screen then the A-B section is continually repeated.
 - 3 To resume normal playback, press the **A◀▶B** button repeatedly until the repeat mode indicator disappears on screen.
- *Chapter repeat:* Repeats playback of a single chapter.
 - *Title repeat:* Repeats playback of a single title.
 - *Repeat disc:* Repeats playback of the whole disc.
 - *Repeat track:* Repeats playback of a single track.
 - *Repeat off:* Exits repeat mode.

Changing the Audio Language/Changing the Subtitle Language

Select the language on discs that contain more than one language by following the instructions below.

Changing the Audio Language

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

This operation works only with discs on which multiple audio soundtrack languages are recorded. If the loaded disc supports multiple languages, you can select the audio language.

- 1 Press the **OPTION** button.
The DVD MENU will be displayed.
- 2 Select **AUDIO** using the **</>** button and then press the **ENTER** button.
 - For DVD playback, Each time you press the **ENTER**, the language is changed.
 - For CD playback, Mono Left → Mono Right → Mix-Mono → Stereo.

Changing the Subtitle Language

It is possible to change the subtitle language to a different language from the one selected at the initial settings. This operation works only with discs on which multiple subtitle languages are recorded.

- 1 Press the **OPTION** button.
The DVD MENU will be displayed.
- 2 Select **SUBTITLE** using the **</>** button and then press the **ENTER** button.
- 3 Press the **ENTER** button repeatedly until the desired subtitle language is displayed.
- 4 To turn the subtitles off, Select the **SUBTITLE** and then press the **ENTER** button until Subtitle off is displayed.

Changing the Size and Angle of the Screen

Changing the Size of the Screen

- ❶ Press the **OPTION** button.
The DVD MENU will be displayed.
- ❷ Select **ZOOM** using the </> button and then press the **ENTER** button.
- ❸ Each press of the **ENTER** button changes the zoom mode in the following order:
X1.5 → X2 → X3 → OFF
 - If you press the </>/∇/∧ button during the zoom mode, the zoom point will shift.
 - To resume normal playback, select the **ZOOM** and then press the **ENTER** button repeatedly until the repeat mode indicator disappears on screen.
 - This function is activated for only DVD playback.

Viewing from another Angle

Some DVDs contain scenes that have been shot simultaneously from multiple angles.

- ❶ Press the **OPTION** button.
The DVD MENU will be displayed.
- ❷ Select **ANGLE** using the </> button and then press the **ENTER** button.
 - Pressing the button successively changes the viewing angle which is displayed on the screen.
 - The (📷) icon appears. If no additional camera angle are recorded, the (🕒) icon will be displayed.
 - If multiple camera angles are recorded, the (📷) icon displays the current angle, number and the number of angles available.
 - This function is activated only for discs having scenes recorded at different angles.

Additional Function

Muting the sound

- ❶ Press the 🔇 button.
 - Pressing the button toggles the mute function on and off. If no sound is heard with mute turned on, turn it off to hear sound.

Basic Disc Menu Controls

Some DVD's contain menus. Sometimes these are displayed automatically when you start playback;

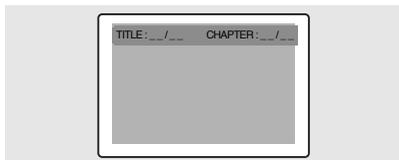
- ❶ Press the **OPTION** button.
The DVD MENU will be displayed.
- ❷ Select **MENU** using the </> button and then press the **ENTER** button.
 - The menu contained on the disc will appear on the screen. The menu appears differently with different disc.
- ❷ Select **TITLE** using the </> button and then press the **ENTER** button.
 - The title contained on the disc will appear on the screen. The title menu appears differently with different disc.

Setting a Specific DVD Title or Chapter

This function is used to go to the Chapter, Track or Song of the disc you want.

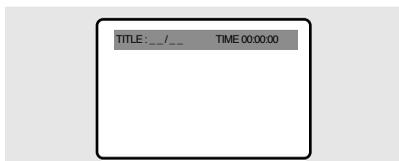
Program play **DIRECT Search (GO TO) for DVD**

- 1 Press the **OPTION** button.
The DVD MENU will be displayed.
- 2 Select **GOTO** using the </> button and then press the **ENTER** button.
- 3 Select the item using the </> button and press the **ENTER** button.
 - *Chapter:* Press the chapter number using the numeric button.
 - *Title:* Press the Track number using the numeric button.
 - *TT:* Press the number of the desired time in title using the numeric button.
- 4 Press the **ENTER** button to confirm.



DIRECT Search (GO TO) for CD

- 1 Press the **OPTION** button.
The DVD MENU will be displayed.
- 2 Select **GOTO** using the </> button and then press the **ENTER** button.
 - Each press of the **ENTER** button changes the repeat mode in the following order:
Disc Go To -- :-- → Disc go to XX:XX.
- 3 Enter the number using the numeric button.
 - Disc Go To: Press the number of the desired time in disc using the numeric button.
 - Track Go to: Press the number of the desired time in track using the numeric button.
 - Select Track: press the track number using the numeric button.



Playing MP3 Discs

Playback of a CD/CD-RW disc that contain a MP3 files.

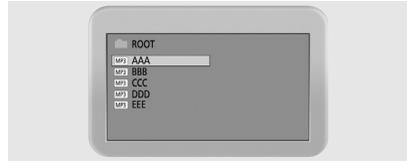
To Play a MP3 File

- ❶ Insert the MP3 disc.
Make sure that the disc's label is facing up.
- ❷ Using the **▼/▲** button to find the desired folder.
- ❸ Using the **▼/▲** button to select the desired a mp3 files.
- ❹ Press the **ENTER** button to start playback a file.

Repeat Playback

Playback of a CD/CD-RW disc that contain a MP3 files.

- ❶ Press the **REPEAT** button.
 - Each press of the **REPEAT** button changes the repeat mode in the following order:
Repeat track → Folder repeat → Repeat OFF.



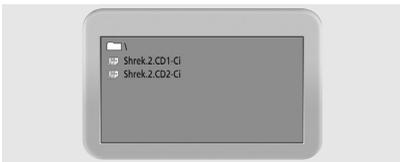
Note

- The file name is only displayed in English.
- This player is compatible with the "MPEG-1 Audio Layer 3" standard. It is not compatible with other standards, such as "MPEG-2 Audio Layer 3", "MPEG-2.5 Audio Layer 3", MP1, MP2, etc.
- Do not play CD-R/RW discs containing any files other than music CD files, MP3 and JPEG files.
- Programmed playback is not possible with MP3 discs.
- When writing MP3 files on CD-R/RW discs, select "ISO9660 level 1" as the writing software format.

Playing DIVX Discs(option)

Playback of a CD/CD-RW disc that contain a DIVX files.

CAUTION: This subtitle is selectable only when it's name is same with the title's .



To Play a DIVX File

- ❶ Insert the DIVX disc.
Make sure that the disc's label is facing up.
- ❷ Using the **▼/▲** button to find the desired folder.
- ❸ Using the **▼/▲** button to select the desired a divx files.
- ❹ Press the **ENTER** button to start playback a file.
- ❺ To delete the subtitle while playback.
 - Press the **OPTION** button.
The DVD MENU will be displayed.
 - Select **SUBTITLE** using the **</>** button and then press the **ENTER** button.

Note

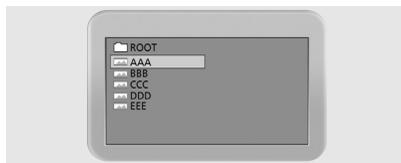
- AVI file used to contain the audio and video data : these must be stored on CD in the ISO 9660 format .
- Press STOP button when file do not appear on the screen .
- When playing the DivX disk , you can play the file with extension of AVI only .
- DTS Audio is not supported .
- WMA is not supported .
- When burning a subtitle file to a CD-ROM in your PC , be sure to burn it as an SMI file .
- Reverse of slow playback does not work DivX .
- Supported format : VIDEO - Divx3. 11 , 4. x , 5. x
AUDIO - AC3 , MP3(80kbps ~ 320kbps)

Playing Kodak Picture CD and JPEG File

To play Kodak Picture CD and JPEG File

When a Kodak Picture CD is inserted, an automated slide show is launched. When a JPEG file is loaded the table of contents is displayed on TV screen.

- 1 Insert the Kodak Picture CD or JPEG file disc.
 - An automated slide show is launched.
 - If you press the **■** button, File menu screen will be appeared.
- 2 Select the picture.
 - Select the picture, you want to see, by pressing the **▼/▲** button.
- 3 Press the **ENTER** button.
 - The selected item is displayed as a full size picture.



Changing the Size of the Screen

- 1 Press the **OPTION** button.

The DVD MENU will be displayed.
- 2 Select **ZOOM** using the **</>** button and then press the **ENTER** button.
 - Each press of the **ENTER** button changes the zoom mode in the following order:
25% → 50% → 100%(default) → 150% → 200%.

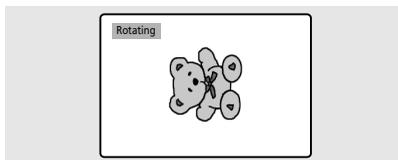


Image Rotation

- 1 Press the **</>/▼/▲** button. There are 4 modes to rotate a picture:
 - **▲** button : invert
 - **▼** button : mirror
 - **<** button : Turn left
 - **>** button : Turn right

Changing JPEG Slideshow Transition Mode

- ① Press the **OPTION** button.
The DVD MENU will be displayed.
- ② Select **ANGLE** using the </> button and then press the **ENTER** button.
 - 13 slideshow transition modes are provided.
 - Each press of the **ENTER** button is pressed during JPEG image playback, the display mode on screen shows 13 variations as follows:
 - mode 1 : It displays from top to bottom in turn.
 - mode 2 : It displays from bottom to top in turn.
 - mode 3 : It displays from top to bottom to center in turn
 - mode 4 : It displays from center to top and bottom in turn.
 - mode 5 : It displays from vertical blind.
 - mode 6 : It displays from from left to right in turn.
 - mode 7 : It displays from right to left in turn.
 - mode 8 : It displays from left and right to center in turn.
 - mode 9 : It displays from center to left and right in turn.
 - mode 10 : It displays from outside to inside in turn.
 - mode 11 : It displays from horizontal blind.
 - mode RAND : It displays at random.
 - NONE

Starting MUSIC slide show

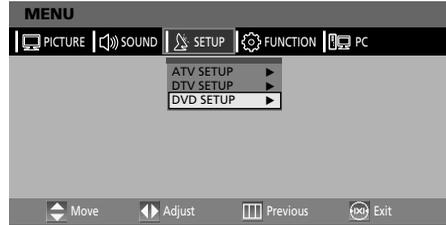
- ① Press the **OPTION** button.
The DVD MENU will be displayed.
- ② Select **SUBTITLE** using the </> button and then press the **ENTER** button at STOP mode, SLIDE SHOW MODE1 → SLIDE SHOW MODE2 → SLIDE SHOW MODE3 → SLIDE SHOW OFF will be selected repeatedly.
- ③ **Starting slide show mode 1**
 - After selecting SLIDE SHOW MODE 1, press **ENTER** button.
MP3 FILE No.1 Track will be played with JPEG Picture changing automatically.
- ④ **Starting slide show mode 2**
 - Select SLIDE SHOW MODE 2 and press the arrow button to select the MP3 File tracks.
 - Press **A◀▶B** button on the remote control and Press **ENTER**.
 - The selected MP3 FILE will be played with JPEG Picture changing automatically.
- ⑤ **Starting slide show mode 3**
 - Select SLIDE SHOW MODE 3 and press **ENTER** button.
While MP3 FILE No.1 Track is playing, JPEG picture will not be changed.
 - When the MP3 FILE track moves to the next one, the JPEG picture will be moved to the next one too.
- ⑥ **Stopping slide show mode**
 - Press **■** button to stop MP3 FILE and SLIDE SHOW.

Using the Setup Menu

QUICK!

- Press **OPTION** button to display the DVD MENU.
- Press the **</>** button to select SETUP and then press the **ENTER** button.

- Press the **MENU** button.
The OSD MENU will be displayed.
- Select SETUP using the **</>** button and then press the **▼** button.
- Select DVD Setup using the **▼/▲** button and then press the **>** button.
The DVD OSD MENU will be displayed.



Language Setup

- Press the **</>** button to move to Language Setup.
- Press the **▼/▲** button to move to desired item. And press the **ENTER** button.
- Press the **▼/▲** button to select desired language.



- AUDIO:** Use the audio language menu to select the subtitle language that you prefer. If the disc you are playing has that language available, it will display subtitles in that language.
- SUBTITLE:** Use the subtitle language menu to select the subtitle language that you prefer. If the disc you are playing has that language available, it will display subtitles in that.

- DISC MENU:** Use the Disc Menu option to select the language you want a DVD's disc menu to be displayed in(not the same as the player menu).

Video Setup

For selecting TV screen ratio.

- Press the **</>** button to move to Video Setup.
- Press the **▼/▲** button to move to desired item. And press the **ENTER** button.
- Press the **▼/▲** button to select desired item.



TV DISPLAY

- 4:3 / PS:** Choose this setting if you want the movie to fill the entire screen of your TV. This might mean that the left and right edges won't be seen.
- 4:3 / LB:** Choose this setting if you want to see movies in their original aspect ratio. The movie might appear with black bars at top and bottom of the screen.
- 16:9 / WIDE:** Choose this setting if you want the movie to be seen in widescreen.

PIC MODE

- AUTO :** The picture mode will be selected automatically according to the disc information.
- FILM :** The optimal display at still mode will be selected.
- VIDEO:** The optimal display at movie mode will be selected.
- SMART:** The optimal display will be displayed by the combination of Film and Video.

SCREEN SAVER

- You can select the screen protection function 'On' and 'Off'.

Speaker Setup

- 4 Press the </> button to move to Speaker Setup.
- 5 Press the ▼/▲ button to move to desired item. And press the **ENTER** button.
- 6 Press the ▼/▲ button to select desired item.

• Downmix

- LT/RT: Choose this setting if you want to select the surround sound for the front speaker.
- Stereo: Choose this setting if you want to select the stereo output through the front speaker.



Audio Setup

- 4 Press the </> button to move to Audio Setup.
- 5 Press the ▼/▲ button to move to desired item. And press the **ENTER** button.
- 6 Press the ▼/▲ button to select desired item.

DUAL MONO

- STEREO : For stereo sound output.
- LEFT MONO : For stereo the output of the left channel of the audio track.
- RIGHT MONO : For selecting the output of the right channel of the audio track.
- MIXED MONO : For selecting the output of both the left and right channels of the audio track.



Dynamic

- For increasing the output of the audio only. (4/4, 3/4, 2/4, 1/4, OFF)
- Selecting OFF returns to the default value.

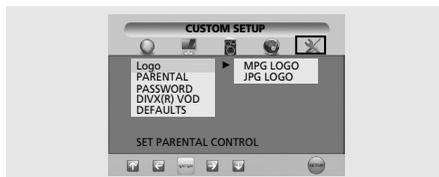
Custom Setup

- 4 Press the </> button to move to Custom Setup.
- 5 Press the ▼/▲ button to move to desired item. And press the **ENTER** button.
- 6 Press the ▼/▲ button to select desired item.

• Logo

- MPG Logo : To use the original initial screen.
- JPG Logo : To use the initial screen downloaded from CD.

*If you use DivX(option), the JPG logo is applied.
If you use DVD(option), the JPG logo is not applied.*



• Parental

- Set a password and select rating level for DVD's unsuitable for children.



- Password Change
- 5 Press the **▼/▲** button to move to **PASSWORD**. And press the **ENTER** button.
- 6 Press the **ENTER** button again.
- 7 Enter your old password, and new password in 4 digits.
- 8 Re-enter new password for confirmation then press the **ENTER** button.



• The password is preset to 0000.

- Default
 - If user selects reset from the setup menu, all the value of setup menu will be initialized by factory setting value.
- (Exception: Parental level and Password values will not be changed.)

DivX Function (Depend on the model)

DivX (option)

DivX Feature Table

- AVI files are used to contain the audio and video data; these must be stored on CD in the ISO 9660 format.
- When playing the DivX disc, you can play the file with extension of AVI only.
- WMV is not supported.
- When burning a subtitle file to a CD-ROM in your PC, be sure to burn it as an SMI file.
- Reverse of slow playback does not work with DivX.

VIDEO

- DivX 3.11 content
- DivX 4 content (Based on MPEG-4 simple profile)
- DivX 5 content (MPEG-4 simple profile, bi-directional frames, Qpel and GMC are not supported).

| | |
|--|--|
| Support all resolution up to maximum of | 720 X 480 @ 30fps 720 X 576 @ 25fps |
| Macroblocks per second | 40500 |
| Maximum average bitrate | 4000 kbps |
| Maximum peak bitrate during any 3 seconds of video | 10000kbps |
| Minimum VBV buffer size (kbytes) | 384k bytes |

Note.
Our solution support a maximum constant 6Mbps bitrate.

AUDIO

DivX certified devices can play back any interleaved MP3 audio at any bitrate, both CBR and VBR. The audio must be sampled at standard frequencies, such as 32khz, 44.1khz, and must conform to the AVI file specification.

DivX® VOD Playback

This chapter explains how to playback DivX VOD.

- ❶ Press the **MENU** button.
The OSD MENU will be displayed.
- ❷ Select **SETUP** using the **</>** button and then press the **▼** button.
- ❸ Select **DVD Setup** using the **▼/▲** button and then press the **>** button.
The DVD OSD MENU will be displayed.
- ❹ Use **</>** to move to "Custom" mode.
- ❺ Use **▼/▲** to move to "DivX® VOD", then press **ENTER**.
- ❻ Then, below message will pop up.

YOUR REGISTRATION
CODE IS : XXXXXXXX
TO LEARN MORE
GO TO WWW.DIVX.COM/VOD

DONE

- ❼ Registration code is : XXXXXXXX please fill out 8 characters registration code.
- ❽ When you down load files through internet. Please make sure to insert registration code before the down loading.
- ❾ Burn the down loaded file to CD-R or CD-RW.
- ❿ Playback CD-R or CD-RW disc to the set.
- ⓫ You will see below message.

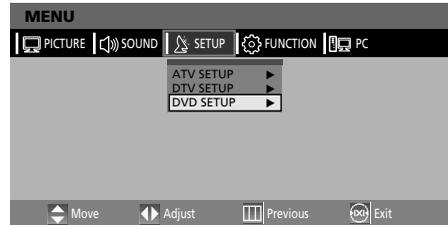
This rental video has X view left. A view ends when you stop playback, play a different video, or trun off your player.

Do you want to use one of your X views now?

YES

NO

- ⓫ If you select "YES" button, it will playback, otherwise it will show you list of files.



Note.

- If you tried to play back anything over X view. If will show you following message "This rental is expied" and will not play back.
If you tried to play back expired rental disc, it will show you following message " This rental is expired".
- If you want play back new rental disc, please follow the procedure from No.1
- In case of Bad Registration code are inserted. It turns out to be invalid registration code, the file will not be play back.
"This video player is not authorized to play this video." showing following message.

DVB-T Function (Depend on the model)

This product is designed for the access of digital terrestrial free to view only.

First time installation

When the system is first switched on, the Application attempts to configure itself for the first time. This is called "First Time Installation". You can choose your country.



The user is then asked if they wish to perform an automatic tune for services. Automatic tuning functionality is described later in this document. When the automatic tune finishes and services have been found, the lowest number service is selected and a banner describing that service is shown.

A user may have chosen not to perform an automatic tune or no services may have been found by an automatic scan. In this instance the user may use the "Main Menu" to automatically scan again or perform a manual scan.

Main menu

A "Main Menu" is provided to enable the user to configure elements of the DVB-T.

QUICK!

- a. Press **OPTION** button to display the DTV MENU.
 - b. Press the **</ >** button to select SETUP and then press the **ENTER** button.
- 1 Press the **MENU** button.
The OSD MENU will be displayed.
 - 2 Select SETUP using the **</ >** button and then press the **▼** button.
 - 3 Select DTV Setup using the **▼/▲** button and then press the **>** button.
The DTV OSD MENU will be displayed.



Configurable elements of the Reference Application are described elsewhere in this document.

- Channel List, Installation, Automatic Search, Manual Search, Favourites, Configuration, Language, Guides.

Channel List

The Channel List presents a list of all channels found during the channel search described earlier. The list comprises radio and TV channels.

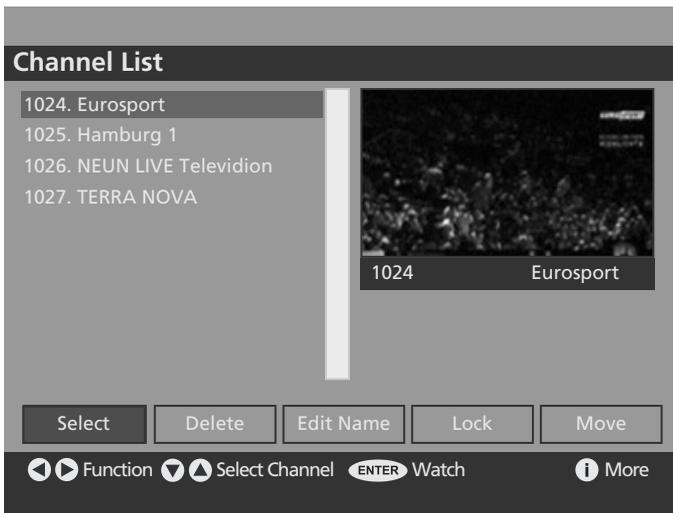
They have been allocated a channel(reference) number and are listed in this numerical order.

The Channel List can be used to watch and listen to the selected channels, delete them from the list, edit the name of the channel, set a password to access the channel, and to add the channel to your list of favourite channels.

A password to access the channel, and to add the channel to your list of favourite channels.

To Display the Channel List

- Press the **OPTION** button. The DTV MENU will be displayed.
- Select **LIST** using the **</ >** button and then press the **ENTER** button to display the CHANNEL LIST, see below for an example. This shows a TV channel selected. When a radio channel is selected the picture frame will be blank.

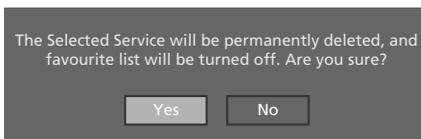


To Watch a channel

- Use **</ >** buttons to step along the options until you reach **Select**.
- Use **▼/▲** to navigate through the channel list until you reach the channel you want to watch.
- Press **"ENTER"** to watch the selected channel in the picture window located at the top right corner.
- To watch the channel on full screen press **EXIT**.

To Delete a Channel

- Use </> to step along the options until you reach **Delete**.
- Use ▼/▲ to navigate through the channel list until you reach the channel you want to delete.
- Press “**ENTER**” to delete the selected channel in the picture window, top right corner.
- A confirmation box opens up. Answer **Yes** or **No** as required. If you answer Yes, the channel will be removed from the list and will no longer be available to watch/listen to.



To Edit a channel name

- Use ▼/▲ to navigate through the channel list until you reach the channel you want to edit.
- Use </> to step along the options until you reach **Edit Name**.
- Press “**ENTER**” to select the edit name function.
- The selected channel name appears in a text box that opens below the picture window. The first character of the name is enclosed in square brackets.



- Use the number buttons (0-9) to modify this character using the table below.

| Remote button | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
|-------------------|---|---|---|---|---|---|---|---|---|----|
| Press once | A | D | G | J | M | P | S | V | Y | SP |
| press twice | B | E | H | K | N | Q | T | W | Z | 0 |
| Press three times | C | F | I | L | O | R | U | X | 9 | + |
| Press four times | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | y | - |
| Press five times | a | d | g | j | m | p | s | v | z | * |
| Press six times | b | e | h | k | n | q | t | w | & | / |
| Press seven times | c | f | i | l | o | r | u | x | • | ! |

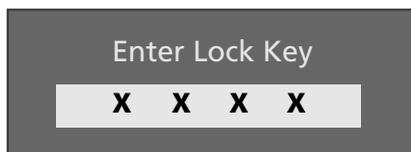
- Use </> to step along the characters of the name and modify each as required. The new name can be shorter or longer than the existing name. Maximum length is 16 characters.

To Lock a channel

This function allows you to set a password to gain access to selected channels.

- Use **▼/▲** to navigate through the channel list until you reach the channel you want to lock.
- Use **</>** to step along the options until you reach Lock.
- Press **"ENTER"** to set Lock.
- The lock(⊗) symbol appears alongside the selected channel in the list.
- Press **"ENTER"** again to remove the lock.

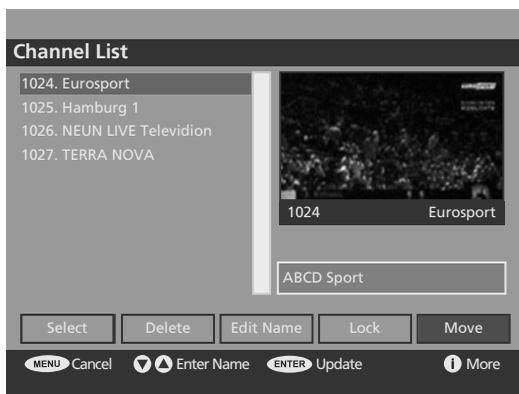
The next time you select to watch this channel you will be asked for a password - the Enter Lock Key window will be displayed for this.



(Initial password is 0000)

You will only be able to watch this channel if you enter a valid number. If you enter a wrong number, the Wrong Lock Key box will be displayed briefly. When a valid number is entered the channel will be played.

To Move a channel



- **</>** key on function button and reach to "Move" button.
- Press **"ENTER"** key, enter moving .
- Use **▼/▲** key to change the position of the selected channel.
- When **▼/▲** key to choose destination position of the moved channel, User Press **</>**, give warning information to tell if user want to cancel moving. If choose yes, restore to Previous List, If choose "No", go on moving channel.
- **"ENTER"** to Save the result of moving.
Warning information for timer canceling because program index changed.
- If choose "Yes", store the result and exit moving.
- If choose "No", just restore to Previous List state.

Favourites

Favourite Service Lists



A favourites list enables the user to select a subset of services they consider favourite.

The Application allows the user to have up to five different favourites lists.

Favourites lists are defined in the favourites dialog that can be accessed by selecting the favourites button on the Channel List dialog and via the Main Menu.

The favourites dialog contains a scrolling list of all services and a set of buttons to enable the user to toggle a service's inclusion in a favourites list. Icons indicate the services that are members of a favourites list.

The currently selected service is displayed in the background of the favourites dialog.

The favourites mode can be enabled from the Configuration dialog in the "Main Menu".

The user cannot select a favourites list that contains no services. When a user selects a favourites list, all EPG's will show only those services in that favourite list.

When the favourites mode is enabled, the program up and down buttons on the remote control will only select those services selected as favourites, and all EPGs will only show the services in the current favourite list. It is still possible to select a service using the service's number even if it is not a member of the currently selected favourites list.

The Favourites dialog cannot be accessed if there are no services available.

Changing Channel

You can change channels by using any of the following methods.

Channel browse buttons

- Use the **P** \wedge/\vee buttons to browse up and down the available channels.

Number buttons (0~9)

- The complete channel number must be entered within 3 seconds of the first digit entry.
- For example, to watch channel 43, press button 4 and then button 3.
- The entered channel number will be displayed in top left of TV screen and the TV will show the entered channel.

Channel list

- Display the Channel list to view the list of available channels in the Channel List.

- ① Press the **OPTION** button. The DTV MENU will be displayed.
 - ② Select **LIST** using the **</ >** button and then press the **ENTER** button.
- Select the required channel using the \vee/\wedge buttons.
 - Press "**ENTER**" to view/listen to the channel.

Now / Next Electronic Program Guide

| Now/Next EPG | | Wed 26/1 19:24 |
|-------------------|-----------------|---------------------|
| Channels | Current Event | Next Event |
| 1024. Eurosport | Eiskunstlauf | Eurosport Spezial |
| 1025. Hamburg 1 | No Inormation | No Informaiton |
| 1026. NEUN LIV... | No Inormation | No Informaiton |
| 1027. TERRA NO... | GREAT FESTIVALS | Aller simple pou... |

Navigate Schedule Watch Event

An EPG dialog is provided that allows the user to view the current and next programme playing on each service.

In this dialog a list of channels and the corresponding current and next programmes is displayed. The user can navigate up and down the list of channels and highlight either the now or next programme. Information for the highlighted programme can be displayed by pressing "Info". This information includes the start/end time of the programme, the programme genre in brackets, and a synopsis of the programme content.

A user may select a service by highlighting a program in the "now" list and pressing the "ENTER" key. The Now/Next Electronic Program Guide cannot be accessed if there are no services available.

List Schedule EPG

| List Schedule EPG | | Wed 26/1 |
|-------------------|-----------------------|-------------------|
| Eurosport | Wed 26/1, 19:00-21:00 | |
| 1024. Eurosport | 18:00 | Eiskunstlauf |
| 1025. Hamburg 1 | 20:45 | Eurosport Spezial |
| 1026. NEUN LIV... | | |
| 1027. TERRA NO... | | |

Navigate Change Time Advance Day Event

Timeline Schedule EPG

| Timeline Schedule EPG | | Wed 26/1 19:24 | |
|-----------------------|-------------------|----------------|-------|
| Wed 26/1 | 16:00 | 17:50 | 18:20 |
| 1024. Eurosport | Eiskunstlauf | | |
| 1025. Hamburg 1 | Eurosport Spezial | | |
| 1026. NEUN LIV... | | | |
| 1027. TERRA NO... | | | |

List Schedule EPG information is presented using a list format, either on a banner for the current service, or as a full screen dialog showing multiple services.

A banner with schedule list displays the similar information to that displayed by the current service banner.

On this banner, instead of next programme name, a scrolling list is presented containing programme schedule information for four hours. Users may change the time of the schedule information displayed and highlight a programme within the schedule information.

Whilst this banner is displayed a user may change the current service using the Program Up and Program Down remote control keys.

In the case when there is no schedule information available, the list shown on the banner displays the label "No Information Available".

The user may view more detail for the programme playing now or the programme highlighted in the schedule list using the yellow and blue keys respectively.

The A full screen dialog with schedule list presents the user with two lists and an information panel. The leftmost list displays all available services, the current selected service is displayed in the title bar of this list. The rightmost list displays two hours of schedule information for the currently selected service, its title shows the time span covered by the list. The user navigates between the two lists to change the selected service or the highlighted programme using the Arrow keys on the remote control.

Programme information for the highlighted programme, or first programme item on the schedule list can be displayed by pressing the "i (information)" key.

The user may change the time span of the schedule information displayed for a channel by either two hours or an entire day.

In the case when there is no schedule information available, the list shown on the banner displays the label "No Information Available".

programme detail shown includes start/end time and a description of the programme.

The Extended Schedule Electronic Program Guide cannot be accessed if there are no services available.

Setting

To Display the Configuration

- Press the **OPTION** button. The DTV MENU will be displayed.
- Select **OPT** using the **</ >** button and then press the **ENTER** button.

Configuration

The Configuration window allows you to customise various settings.

You can select from the available options for each of the items in the Configuration window.

See below for a typical display.



The text along the lower banner changes according to the item selected.

- Use the **</ >** buttons to display the options in turn.
- Use **▼/▲** to navigate through the configuration list until you reach the item you want to reconfigure.
- Press **EXIT** to close down the configuration window and return to the previously displayed channel.
- The configuration settings are now as they were set at the time you pressed the **EXIT** button.

Parental Settings

The Parental Setting feature allows you to password protect groups of menus or allow access to all menus.

- Use **▼/▲** to highlight **Parental Settings**.
- Press "**ENTER**".
- Initial password is 0000.
- The window below left is displayed:

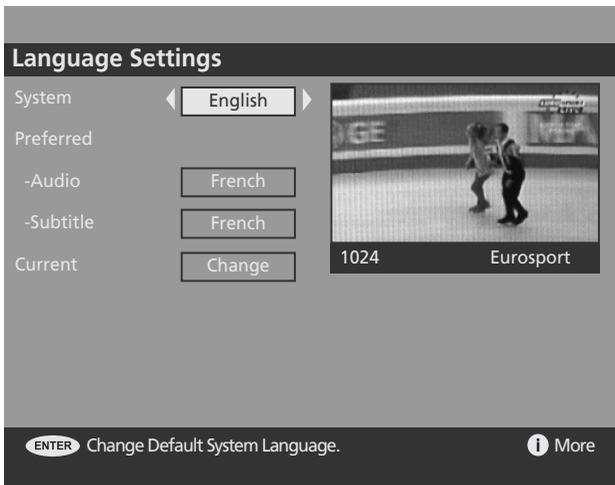


(Initial password is 0000)

- Use </ > to step through and display the available options: All menus, Installation Menus or None (Disabled).
- Use ▼/▲ to highlight Set Lock Key.
- Press “**ENTER**”.
- A second sub-window is displayed, above right.
- Enter the Lock Key code in the code entry box using the number buttons (0~9).
- Input now switches to the Confirm code entry box.
- Enter the same Lock Key code in this window using the number buttons(0~9).
- The second sub-window displays Key Lock Changed and then closes.
- Press **EXIT** to Apply Setting and return to the Configuration menu.

Language

System, Audio and Subtitle language selection



A languages dialog is provided in the “Main Menu”, here the user can set the preferred and the current language of both the audio and subtitles.

The preferred language options available are predefined and depend on the customer requirements.

By setting the current language the user can choose from the languages available for a particular selected service. Here, only the languages available for the current service will be offered as an option.

It is not possible to determine exactly which audio language is currently selected as an audio source may indicate that provides support for more than one language.

The languages dialog also displays the current system language.

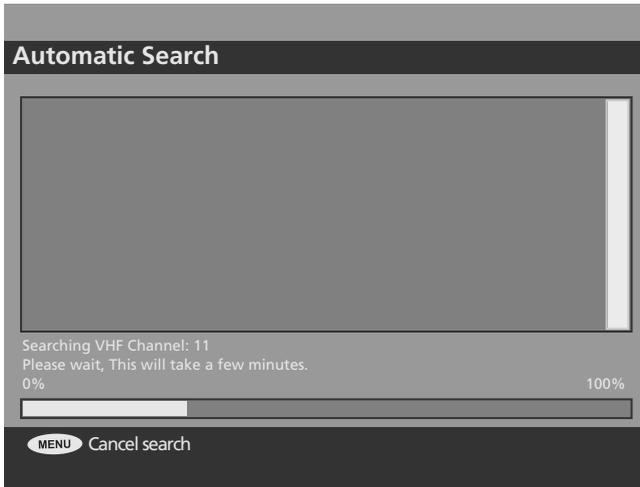
The system language refers to the language used for all UI text throughout the Application.

The current language can also be set from the Current Service Banner. When multiple language options are available for either subtitles or audio on the current event the icon “I/II” will be displayed on the Current Service Banner. The user can then press the “Left” key to display a dialog and set the current audio or subtitle language for that service.

The dialog will not be displayed if there are no current language options available.

Installation

- Automatic Search



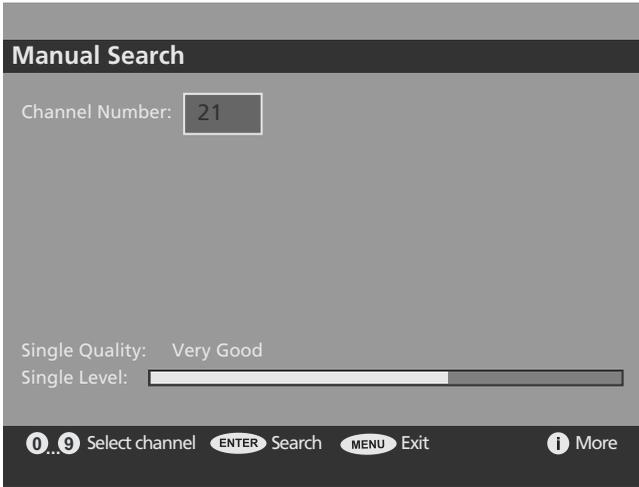
Automatic tuning can be triggered on "First Time Installation" and using an option in the "Main Menu" -> Settings -> Installation.

Whilst performing an automatic tune no service will be selected. A dialog is displayed during automatic tuning that shows the progress of the scan through the channels.

Automatic tuning may be cancelled by the user, in such cases the previous list of services is used, if already stored. When an automatic tune is complete the application will attempt to select the service with the lowest number from the service list and return to "normal viewing" operation.

Note that after automatic tuning has been completed successfully, all user preferences that are related to services are reset, e.g. favourite lists.

- Manual Search



Manual tuning allows the user to scan an individual channel (frequency) for services. The user can perform a manual tune by selecting an option on the "Main Menu".

Whilst performing a manual tune no service will be selected. The user enters the channel number to be scanned, only those channels supported by the tuner may be entered.

The Manual tuning dialog displays a bar indicating the quality and strength of the signal of the currently selected channel. The user can then choose to scan the selected channel for services, a separate dialog is displayed showing the services found whilst scanning is taking place.

Newly discovered services are merged with the current list of services.

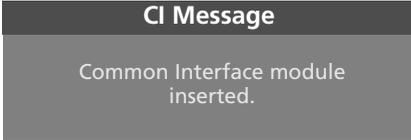
Manual tuning may be cancelled by the user, in such cases any newly discovered services are disregarded.

When a manual tune is complete the application will attempt to select the previously selected service and return to "normal viewing" operation. In cases where there was not a previously selected service the application will attempt to select the service with the lowest number.

Common Interface

Viewing Common Interface

- Insert the CAM with the CI CARD installed into the common interface slot.
- If you installed CAM/CI CARD, the CI Message will be displayed below for an example.



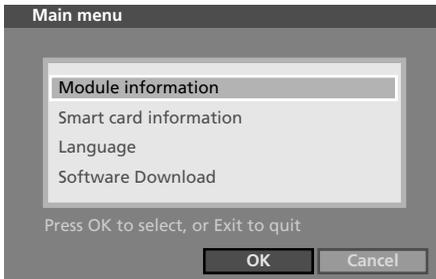
- Check if you can see a picture on a scrambled signal channel.

To Display the Common Interface Menu

- Press the **OPTION** button. The DTV MENU will be displayed.
- Select **SETUP** using the </> button and then press the **ENTER** button. The DTV OSD MENU will be displayed.
- Select **Common Interface** using the ^/∨ button and then press the **ENTER** button to display the Common Interface, see below for an example.



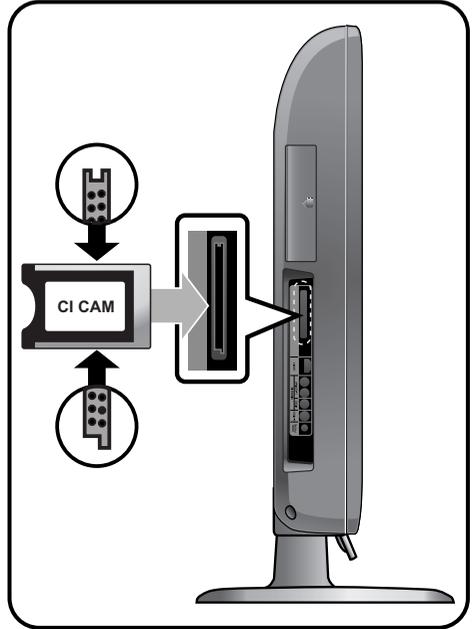
- Press the **ENTER** button to display the CI Main menu, see below for an example.



- Select the desired option using the ∨/∧ button and then press the **ENTER** button.
- Press the **EXIT** button to exit the menu.

Connecting CI

- The Application Info inserting is about the CI CARD.
- You can install the CAM anytime whether the TV is ON or OFF.



- 1 Insert the CI CARD into the CAM in the direction of the arrow until it fits.
- 2 Insert the CAM with the CI CARD installed into the common interface slot. (Insert the CAM in the direction of the arrow, right up to the end so that it is parallel with the slot.)

Technical Specification

Basics

- DVB Terrestrial Free-To-Air receiver compliant to EN 300 744
- VHF/UHF frequency range
- Video and Audio out via internal connector
- S/PDIF out via internal connector
- Fast channel search
- Reed-Solomon decoding support (EN 300 744)
- Automatic FEC selection (1/2, 2/3, 3/4, 5/6, 7/8)
- MPEG2 Transport Stream support: ISO/IEC 13818-1
- DVB-Video/-Audio support : ISO/IEC 13818-2, -3
- MHEG and LCN support (UK only)

RF specification

- QPSK/QAM16/64 demodulation compliant to DVB terrestrial standard EN 300 744
- COFDM 2K and 8K
- VHF/UHF support (47...862 MHz) : EU area
- UHF Support(474...862 MHz) : UK area
- 7/8 MHz channel bandwidth
- Guard Interval Modes : 1/32, 1/16, 1/8, 1/4 active symbol duration
- Fast PLL tuning speed : step size 62.5 KHz / 166.67 KHz

Input / Output specification

- TV out : CVBS, YUV
- Audio analogue out
- Digital Audio out via S/PDIF
- RF input
 - Connector IEC60169-2 female
 - Termination 75 Ω
 - Return Loss : min. 6dB (75 Ω)
- Loop-Through of RF signals
- Internal connection for 1KX modem protocol for software update service

Mode functionality

- DVB Terrestrial TV and Radio reception
- Easy-to-use graphical user interface
- Multi language support
- Automatic and manual channel scan
- Electronic Program Guide (EPG)
- Aspect ratio : 4:3, 16:9, 2.21:1(PAL only)
- Wide Screen Signalling (WSS)
- Context referred help function
- Excellent quality monitoring to avoid video and audio artefacts if to weak signal
- Excellent help to adjust indoor aerial for maximum input RF signal level

Standard and Regulation Compliance

- DVB terrestrial standard EN 300 744
- MPEG2 Transport Stream support to ISO/IEC 13818-1
- DVB-Video/-Audio support to ISO/IEC 13818-2, -3
- Safety and EMC regulations : EN 55013, EN 55020 and EN 60065

Troubleshooting

If the TV seems to have a problem, first try the following list of possible problems and solutions before contacting a service center. If none of these troubleshooting tips apply, do not attempt to repair the product yourself. Call your nearest service center.

• Symptoms that may appear to be a problem

The following symptoms may happen even if the TV has no problem. First try the following list of possible problems and solutions before contacting a service center. First try the following list of possible problems and solutions. If the symptom continues, turn the TV off, and call your nearest service center.

| Symptom | Possible Problem | Possible Solution |
|--|--|--|
| No picture on the screen, and the power LED does not turn on. | Power connection problem. | Check the power cable connectivity to the power connector. Press the power switch again. |
| The TV is turned on, but there is no picture on the screen. | The brightness is adjusted too low. The fluorescent tube is out of order. | Adjust the brightness and the contrast so that a picture is displayed brightly. The fluorescent tube of a LCD TV has a lifetime of about 50,000 hours . To replace the fluorescent tube, contact a service center. |
| An afterimage is generated when continuously watching a still image. | This is caused by an inherent property of LCD panels. Depending on the number of valid pixels, there may be black or bright pixels. These will be less than 0.005% of the sum of all pixels. This is not a problem. | |
| No picture on the screen. No audio. | Discordance between the external device jack and the input switch button location. | Adjust the input switch location. |
| A picture is displayed on the screen, but there is no audio. | The volume is adjusted to 0. Mute is active. The audio cable is disconnected. | Turn up the Volume button. Press the Mute button again. Check the audio cable connectivity. |
| Remote control malfunctions. | The polarity of the batteries installed in the remote control is wrong. The batteries installed in the remote control have not been discharged completely. | Reinstall the batteries properly. Replace the batteries with new ones. |
| Noise is heard on the radio. | This may happen when you use a radio near the TV. | Noise may occur when you use a radio near the TV. Keep some distance between any radios and the LCD TV. |
| No color in a color picture. | The Color density is adjusted to 0 or almost 0. | Adjust the Color density to 100 or less. |

| | | |
|------------------------------------|--|---|
| Duplicated pictures on the screen. | This may be caused by reflected broadcasting signals when there is are mountains, buildings, or trees near your house. | Check if there are any tall objects such as skys crapers near your house. Check that the direction of the antenna is adjusted correctly. |
| Blurred or snowy picture. | The direction of the antenna is not optimal. The antenna cable is disconnected. | Check that the direction of the antenna is correct. Check that the antenna cable is connected to the ANTENNA jack on the back of the LCD TV. |

The remote control does not work properly!

- Are the polarities of the installed batteries correct?
- Has the battery discharged completely?
- Is the power cord plugged in properly or is there a power failure?
- Is fluorescent lighting or a neonsign near the unit?

Warning

If a problem has been detected, unplug the power cable from the wall outlet first.

Using the product when it has a fault may cause electric shocks or fire.

Do not place objects near the wall outlet so that you can unplug the power cable if necessary.

Specifications

The exterior design and the product specifications are subject to be changed without prior notice due to improvements in performance. This product is manufactured for domestic use.

This product may not be used in countries whose television system type or power voltage is different.

The TFT LCD panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

| | | | |
|--|---|--|---|
| LCD Panel | Screen Size | | 42 Inch WIDE |
| | Type | | Color Active Matrix TFT LCD |
| | Display Color | | 8-bit, 16.7M |
| DVD loader (option) | Applicable disc (Do not insert 8cm/3inch disc) | | DVD-Video / DVD-R /+R / Super VCD / VCD / CD / CD-R / RW MP3 / WMA / JPEG files / Picture CD Disc Compatible |
| | MPEG4 ASP Video (option) | | Support Divx 3.11 / 4.x / 5.x |
| | Aspect Ration | | 16:9, 4:3Letter Box, PAN&SCAN |
| | Language | | Audio(9), Subtitle(9) (+others) |
| | Audio Output | | Digital Coaxial out: Dolby digital, DTS digital Output Analog Audio out : Down Mix 2 CH Stereo, Lt/Rt |
| TV/VIDEO | Receiver / Channels | | VHF: E2 ~ E12 |
| | | | UHF: E21 ~ E69 |
| | | | CATV: S1 ~ S41 |
| | | | Television Broadcasting System: PAL, SECAM: B/G, D/K, I, L |
| | Antenna Interface | | VHF, UHF: 75 ohm |
| Video Signal | | PAL, SECAM, NTSC(3.58/4.43) | |
| PC | Synchronization | Horizontal F | 30 ~ 79KHz |
| | | Vertical F | 56 ~ 75Hz |
| | Color Quality | | 16,772,216 colors |
| | Maximum Resolution | | 1920 X 1080 |
| | Separation Signal | | TTL, Anode or Cathode |
| | Display Color | | 8-bit, 16.7M |
| Interface | | D-sub | |
| HDMI | | HDMI/DVI-D | |
| Audio Out | | 10W x 2 | |
| Power Supply | | AC 100-240V~, 50/60Hz | |
| Power Consumption | | Maximum 250W | |
| Power Consumption When Power Saving Mode | | Less than 3W | |
| Dimension (mm) | With Stand (W x H x D) | | 1049 X 734 X 327 |
| | Monitor (W x H x D) | | 1049 X 678 X 113 |
| Weight | | 28.3 Kg | |
| Accessories | | Remote control, Battery (AAA), Owner's Instructions, Power Cord, Screw, Cleaning Cloth, Cap (for WALL MOUNT) | |

- This device has been registered in regards to EMI for residential use. It may be used in all areas.

Appendix

Standard Signal Mode Table(PC/HDMI/DVI)

A TFT LCD TV is configured to support the following 14 signal modes.

A user can register up to 14 modes.

Configure the PC display mode referring to the following table.

For configuration procedures, refer to the Appendix of the PC manual.

| Resolution | Horizontal Frequency (KHz) | Vertical Frequency (Hz) | Clock Frequency (MHz) | Polarity (H/V) |
|-------------------|----------------------------|-------------------------|-----------------------|----------------|
| MAC, 640 X 480 | 35.000 | 66.667 | 30.240 | -/- |
| MAC, 832 X 624 | 49.726 | 74.551 | 57.284 | -/- |
| VESA, 640 X 480 | 37.500 | 75.000 | 31.500 | -/- |
| VESA, 640 X 480 | 37.861 | 72.809 | 31.500 | -/- |
| VESA, 800 X 600 | 37.879 | 60.317 | 40.000 | +/+ |
| VESA, 800 X 600 | 46.875 | 75.000 | 49.500 | +/+ |
| VESA, 800 X 600 | 48.077 | 72.188 | 50.000 | +/+ |
| VESA, 1024 X 768 | 48.363 | 60.004 | 65.000 | -/- |
| VESA, 1024 X 768 | 56.476 | 70.069 | 75.000 | -/- |
| VESA, 1024 X 768 | 60.023 | 75.029 | 78.750 | +/+ |
| VESA, 1280 X 1024 | 63.981 | 60.020 | 108.000 | +/+ |
| VESA, 1280 X 1024 | 79.986 | 75.025 | 123.000 | +/+ |
| VESA, 1600 X 1200 | 75.000 | 60.000 | 162.000 | +/+ |
| VESA, 1920 X 1080 | 66.587 | 59.934 | 138.500 | +/- |

PIP Screen Configuration Table

| MAIN \ PIP | TV | VIDEO1,2,3 | S-VIDEO | RGB | DVD/DTV | COMPONENT | PC | HDMI 1, 2, 3 |
|--------------|----|------------|---------|-----|---------|-----------|----|--------------|
| TV | X | X | X | X | X | X | X | X |
| VIDEO1, 2, 3 | X | X | X | X | X | X | X | X |
| S-VIDEO | X | X | X | X | X | X | X | X |
| RGB | X | X | X | X | X | X | X | X |
| DVD/DTV | O | O | X | X | O | X | X | X |
| COMPONENT | O | O | X | X | O | X | X | X |
| PC | O | O | X | X | O | X | X | X |
| HDMI 1, 2, 3 | O | O | X | X | O | X | X | X |

