

TOSHIBA Leading Innovation >>>

19DV500B 22DV500B





OWNER'S MANUAL

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Safety Precautions

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken to obtain the best results and for safety to be assured. Please read the points below for your own safety. They are of a general nature, intended to help with all electronic consumer products and some points may not apply to the goods you have just purchased.

Air Circulation

Leave more than 10cm clearance around the television to allow adequate ventilation. This will prevent overheating and possible damage to the television. Dusty places should also be avoided.

Heat Damage

Damage may occur if the television is left in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity, or locations where the temperature is likely to fall below 5°C (41°F).

Mains Supply

The set should be operated only from a 220-240 V AC 50 Hz outlet. DO ensure that the television is not standing on the mains lead. DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. In the UK, the fuse fitted in this plug is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted. IF IN DOUBT PLEASE CONSULT A COMPETENT ELECTRICIAN.

Warning



To prevent the spread of fire, keep candles or other open flames away from this product at all times.

Do

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

DO ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturers' instructions. Switch off and withdraw the mains plug before making or changing connections.

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

DO be careful with glass panels or doors on equipment.

Do not

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

DON'T obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

DON'T allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.

DON'T place hot objects or naked flame sources, such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.

DON'T use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturers' approved stand, bracket or legs with the fixings provided according to the instructions.

DON'T leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off by withdrawing the plug, make sure your family know how to do this. Special arrangements may need to be made for people with disphilities

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

WARNING - excessive sound pressure from earphones or headphones can cause hearing loss.

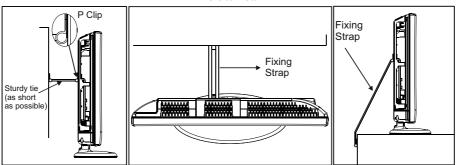
ABOVE ALL - NEVER let anyone, especially children, push or hit the screen, push anything into holes, slots or any other openings in the case.

NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry.

THE MAINS PLUG IS USED AS A DISCONNECTING DEVICE AND THEREFORE SHOULD BE READILY OPERABLE.

Installation and Important Information

Where to install



"P' Clip position on TV is dependent on model

* Button and stand style is dependent on model.

Locate the television away from direct sunlight and strong lights. Soft, indirect lighting is recommended for comfortable viewing. Use curtains or blinds to prevent direct sunlight falling on the screen.

Place the TV on a stable, level surface that can support the weight of the TV. In order to maintain stability and prevent it falling over, secure the TV to a wall using a sturdy tie to the clip on the back of the TV.

The LCD display panels are manufactured using an extremely high level of precision technology; however, sometimes some

parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

Make sure the television is located in a position where it cannot be pushed or hit by objects, as pressure will break or damage the screen. Also, please be certain that small items cannot be inserted into slots or openings in the case.

Cleaning the screen and cabinet...

Turn off the power, and clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

Please take note

The digital reception function of this television is only effective in the countries listed in the "Country" section of the "SETUP" menu. Depending on country/area, some of this television's functions may not be available. Reception of future additional or modified services can not be guaranteed with this television.

If stationary images generated by 4:3 broadcasts, text services, channel identification logos, computer

displays, video games, on screen menus, etc. are left on the television screen for any length of time, they could become conspicuous. It is always advisable to reduce both the brightness and contrast settings.

Very long, continuous use of the 4:3 picture on a 16:9 screen may result in some retention of the image at the 4:3 outlines. This is not a defect of the LCD TV and is not covered under the manufacturer's warranty. Regular use of other size modes will prevent permanent retention.

Exclusion Clause

Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

- i) fire
- ii) earthquake;
- iii) accidental damage;
- iv) intentional misuse of the product;
- v) use of the product in improper conditions;
- vi) loss and/or damage caused to the product whilst in the possession of a third party;
- vii) any damage or loss caused as a result of the owner's failure and/or neglect to follow the instructions set out in the owner's manual;
- viii) any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following, loss of profit, interruption of business, the loss of recorded data whether caused during normal operation or misuse of the product.

Note: A Toshiba wall bracket or stand, where available, must be used.

Interactive video games that involve shooting a "gun" type of joystick at an "on screen" target may not work with this TV.

English - 3 -

Digital Switchover



Keep this important information about how to re-tune your TV during the digital TV switchover



get set for digital [V]

Television in the UK is going digital, bringing us all more choice and new services. Starting in late 2007 and ending in 2012, television services in the UK will go completely digital, TV region by TV region.

Please see above to find out when your area switches to digital. Digital UK is the independent, non-profit organisation leading the process of digital TV switchover in the UK.

Digital UK provides impartial information on what people need to do to prepare for the move to digital, and when they need to do it

How the switchover affects your TV equipment:

Your new TV has a digital tuner built in, which means it is ready to receive the Freeview signal by simply plugging it into your aerial socket (check if you can get digital TV through your aerial now, or whether you'll have to wait until switchover, at www.digitaluk.co.uk).

When the TV switchover happens in your area, there are at least two occasions when you will need to re-tune your TV in order to continue receiving your existing TV channels, and also to pick up new ones, Digital UK, the body leading the digital TV switchover, will advise you when you need to re-tune during the switchover.

If you choose to connect your TV to satellite or cable with a digital box then it will not be affected by switchover, and you won't need to re-tune. Keep this important information about how to re-tune your TV during the digitalTV switchover

How to re-tune:

As new services are broadcast it will be necessary to retune the television in order to view them. Auto tuning will

completely retune the television and can be used to update the channel list.

- Press MENU button on the remote control unit.
- Select **SETUP** and then **INSTALLATION** option. Select Automatic Search.
- A screen will appear warning that previous digital programmes and settings will be deleted.
- You must allow the television to complete the search...
- When the search is complete the Auto tuning screen will display the total number of service found.

NOTE: Further detailed instructions on Auto tuning can be found in the TV owners manual.

If you are missing channels, it may be that they are not available in your area, or that your aerial needs upgrading.

If you have any further questions, please contact your equipment supplier or call Digital UK on 08456 50 50 50 or visit www.digitaluk.co.uk

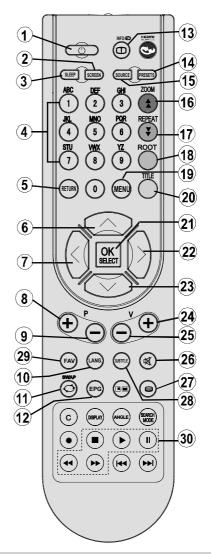
English - 4 -

The Remote Control

Simple at-a-glance reference of your remote control.

- 1. Standby
- 2. Image size
- 3. Sleep timer
- 4. Numeric buttons
- 5. Return / Exit / TXT Index
- 6. Cursor up / TXT up page
- 7. Cursor left
- 8. Programme up / Page down (in DTV mode)
- 9. Programme down / Page up (in DTV mode)
- 10. Mono-Stereo / Dual I-II
- **11.** Swap
- 12. Electronic programme guide (in DTV mode)
- 13. Info / TXT reveal
- 14. Picture mode selection
- 15. Source selection
- 16. Red / Sound
- 17. Green / Picture
- 18. Yellow / Feature / Current language (in DTV mode) (*)
- **19.** Menu
- 20. Blue / Install
- 21. OK / Select / Freeze Picture (analogue TV mode) / Hold (in TXT mode) / Channel List (DTV mode)
- 22. Cursor right / TXT Subpage
- 23. Cursor down / TXT Downpage
- 24. Volume up
- 25. Volume down
- **26.** Mute
- 27. Teletext / Mix / PAT mode
- 28. Subtitle (in DTV mode) / TXT Subtitle (analague TV mode)
- 29. FAV (*) (Favourite Selection)(in DTV mode)
- 30. Media Player buttons

(*) Only available for EU country options. Note: Buttons that are not indicated with a number on the remote control illustration are not functional in TV mode. Remote range is approximately 7m/23ft



Inserting Batteries and Effective Range of the Remote Control



Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the right way round. Suitable battery types for this remote are AAA, IEC R03 1.5V.

Do not combine a used, old battery with a new one or mix battery types. Remove dead batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in a designated disposal area.

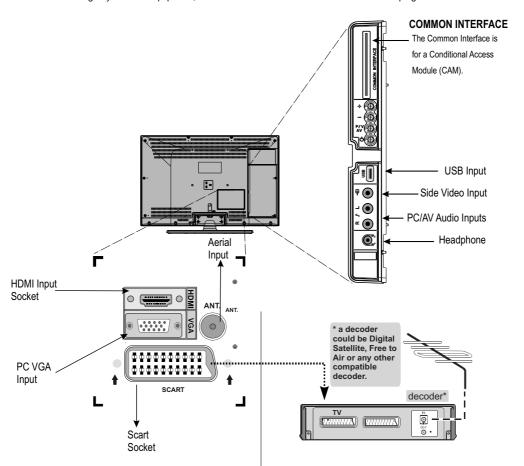
Warning: Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced the batteries may need replacing.

English - 5 -

Connecting External Equipment

Before connecting any external equipment, turn off the On/Off switch and remove the mains plug from the wall socket.



Aerial cable.....

Connect the aerial to the socket on the rear of the television.

SCART lead....

If you use a decoder* or a media recorder, it is essential that the scart cable is connected to the television.

Before running first time installation, any connected devices to standby mode.

The phono sockets located on the side of the TV will accept L and R audio signals.

HDMI® (High-Definition Multimedia Interface) is for using with a DVD decoder or other equipment with digital audio and video output. It is designed for best performance with 1080i and 1080p high-definition video signals but will also accept and display VGA, 480i, 480p, 576i, 576p and 720p signals. PC format signals will also be displayed.

NOTE: Although this television is able to connect to HDMI equipment, it is possible that some equipment may not operate correctly.

A wide variety of external equipment can be connected to the television; therefore, the relevant owner's manuals for all additional equipment must be referred to for exact instructions.

If the television automatically switches over to monitor external equipment, return to normal television by pressing the desired programme position button. To recall external equipment, press **SOURCE** button to switch between sources.

You can also connect **YPbPr** equipment to your TV but this connection can only be enabled by using YPbPr to PC cable (Cable is not supplied). To enable sound connection, use **AUDIO IN** located side of the TV.

. When the connection is made, switch to ${\bf YPbPr}$ source. See, ${\it Input \, selection}$ section.

English - 6 -

Connecting an HDMI® or DVI Device to the HDMI Input

The HDMI input on your television receives digital audio and uncompressed digital video from an HDMI source device or uncompressed digital video from a DVI (Digital Visual Interface) source device.

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) programme material in digital form from EIA/CEA-861-D—compliant [1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

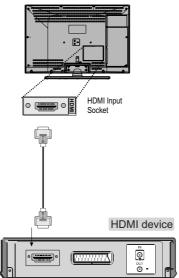
NOTE:

- Some early HDMI equipment may not work properly with your latest HDMI TV.
- Supported Audio format: Linear PCM, sampling rate 32/44.1/48kHz.

To Connect an HDMI Device

Connect an HDMI cable (type A connector) to the HDMI terminal. For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (HDMI).

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly with this mode.
- HDMI cable transfers both video and audio. Separate analogue audio cables are not required (see illustration).
- To view the HDMI device video, press the **SOURCE** button to select HDMI.

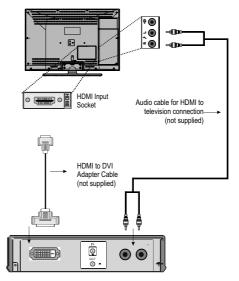


Some PC models cannot be connected to this television.

To Connect a DVI Device

Connect an HDMI-to-DVI adaptor cable (HDMI type A connector) to the HDMI terminal and audio cables to the PC/ Side AV/YPbPr sockets (see illustration).

- The recommended HDMI-to-DVI adaptor cable length is 6.6 ft (2m).
- An HDMI-to-DVI adaptor cable transfers video only. Separate analogue audio cables are required.



NOTE:

To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

- When turning on your electronic components, turn on the television first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the television.

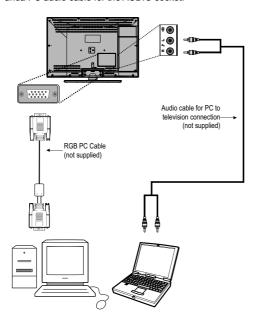
Connecting a Computer

Connecting a USB Disk

To Connect a Computer

With either an RGB/PC or an HDMI connection, you can watch your computer's display on the television and hear the sound from the television's speakers.

When connecting a PC to the RGB/PC terminal on thetelevision, use an analogue RGB (15-pin) computer cable and a PC audio cable for the AUDIO socket.



To use a PC, set the monitor output resolution on the PC before connecting it to the television. To display the optimum picture, use the PC setting feature.

NOTE:

- The PC audio input terminal on the television is shared with the YPbPr and Side AV input terminal.
- Some PC models cannot be connected to this television.
 An adaptor is not needed for computers with a compatible mini D-sub15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multiangle scenes.

To Connect a USB Disk

- You can connect a USB disk to your TV by using the USB input of the TV. This feature allows you to display/play music or photo files stored in a USB stick.
- It is possible that certain types of USB devices (e.g. MP3 Players) may not be compatible with this TV.
- You may back up your files before making any connections to the TV set in order to avoid any possible data loss.
 Note that manufacturer will not be responsible for any file damage or data loss.
- The TV supports only FAT32 disk formatting. NTFS format is not supported. If you connect a USB disk with NTFS format, "usb is unformatted" osd will be displayed.
- · Do not pull out USB module while playing a file.

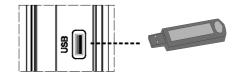
CAUTION: Quickly plugging and unplugging USB devices, is a very hazardous operation. Especially, do not repeatedly quickly plug and unplug the drive. This may cause physical damage to the USB player and especially the USB device itself

USB Memory Connection

· Plug your USB device to the USB input of the TV.

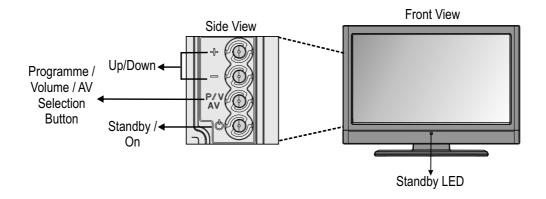
IMPORTANT: The TV supports only FAT32 disk formatting. NTFS format is not supported.

SIDE VIEW USB MEMORY



Controlling the TV

A wide variety of external equipment can be connected via the sockets located on the side of the television. Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the right side of the television may be used for some functions.



Switching on

If the standby LED is unlit, check that the mains plug is connected to the power and then the LED lights up white. Press the $\overset{()}{\cup}$ button on the right side of the television to switch the television on.

To put the television into Standby, press $^{\circlearrowleft}$ on the remote control. To view the television, press $^{\circlearrowleft}$ again. The picture may take a few seconds to appear.

Note:

The active Standby LED may appear for a few moments when the TV is switched off.

A beeping sound will be heard when the buttons are pressed. This is normal operation, not a fault.

For energy saving:

Turning the television off at its mains supply, or un-plugging it, will cut energy use to nearly zero for all televisions. This is recommended when the television is not being used for a long time, e.g. when on holiday.

Reducing the brightness of the screen will reduce energy use. Energy efficiency cuts energy consumption and thus saves money by reducing electricity bills.

NOTE: Putting the television into standby mode, will reduce energy consumption, but will still draw some power.

Please always refer to the owner's manual of the equipment to be connected for full details.

NOTE: The USB socket has limited functionality, and Toshiba can take no responsibility for damage to other connected equipment.

Using the Remote Control

Press the **MENU** button on the remote control to see the menus

In **analogue TV** mode the menu appears as a group of icons each for a menu option. Press the Left or Right button to select a topic.

In **digital TV** mode the menu appears as a list. Press the Up or Down button to select a topic.

To use the options press the Up and Down buttons on the remote control to move up and down through them and **OK**, Left or Right buttons to select the required choice. Follow the on screen instructions. The functions of each menu are described in detail throughout the manual.

Using the Controls and Connections on the TV

- Press "+/-" buttons to increase or decrease volume, so a volume level scale (slider) will be displayed on the screen.
- Main menu OSD cannot be displayed via control buttons.
 "+/-" buttons will function as volume up/down as default.
 Even if you set other functions for these buttons, "+/-" buttons will perform as default after a short while.
- Press P/V/AV button once and then use "+/-" buttons to select the next or previous programme.
- Hold the "P/V/AV" button, source OSD will be displayed.
- Use "+/-" buttons to select the desired source.

Initial Installation - Digital & Analogue

Before switching on the television put your decoder and media recorder to **Standby** if they are connected and ensure the aerial is connected to your television. To set up the television use the buttons on the remote control as detailed on *page 4*.

- Connect the mains plug and switch the TV into standby using the side On/Off switch. Press any numbered or standby button on the remote control, then the language selection menu will be displayed. This screen will appear the first time that the television is switched on and each time the television is reset.
- By pressing the Up or Down buttons highlight the language you want to set and press OK button. Afterwards,the following message will be displayed on the screen:



- 3. Select Yes by using Left or Right buttons and press OK to continue. The Auto tuning screen will appear and the television will start to search for available stations. The progress bar will move along the line. You must allow the television to complete the search.
- 4. After Automatic Search is completed, the following message asking for analogue channel search appears on the screen. Select Yes by using Left or Right buttons and press OK to continue.



Select your Country, Language and Text language by using navigation buttons. Press OK or RED button to continue. To cancel, press the BLUE button.

Note

- For proper functioning of digital teletext in DTV mode, you should set country as UK in analogue AUTO Programme (for UK broadcasts only).
- Do not turn off the TV while initializing first time installation.

Auto Tuning

As new services are broadcast, it will be necessary to re-tune the television in order to view them.

Auto Tuning will completely re-tune the television and can be used to update the channel list. It is recommended that Auto Tuning is run periodically to ensure that all new services are added. All current channels and settings, i.e. locked channels, will be lost.

 Select the SETUP from the main menu by using Up or Down buttons. Press OK and Setup menu will be displayed.



 Select the Installation from the Setup menu by using Up or Down buttons. Press OK and Installation menu will be displayed.



 Select Automatic Channel Scan from the Installation menu by using Up or Down buttons and press OK. A screen will appear warning that previous digital programmes and settings will be deleted. Select Yes and press OK to continue with the Auto tuning.



- The television will start to search for all available stations.
 You must allow the television to complete the search. When the search is complete the **Auto tuning** screen will display the total number of services found.
- After search is completed for digital channels, a message asking whether to search for analogue channels appears on the screen:



Press the OK button to search for analogue channels.
 The following menu appears on the screen for analogue channel search:

Auto Tuning continued, Manual Tuning

The television can be tuned-in manually using Manual Tuning feature.



 Select your Country, Language and Text language by using the navigation buttons. Press OK or RED button to continue. To cancel, press BLUE button. The following menu will be displayed during the automatic tuning:



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

Digital Manual Tuning

The feature is available for service engineers or can be used for direct channel entry if the multiplex channel is known.

 Select Channel Search from the Installation menu and press OK.



- Enter the multiplex number using the numeric buttons. The television will automatically search for that multiplex. When the multiplex is found any channels not currently on the programme list will be added and the programme information at the top of the screen will be updated.
- Repeat as necessary

Note: Press **SOURCE** button to switch between TV/DTV.

Analogue Manual Tuning

The television can be tuned-in manually. For example: if the television cannot be connected to a media recorder/ decoder with a SCART lead or to tune-in a station on another System.

To allocate a programme position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film into the media recorder and press PLAY, then manually tune.

 Press MENU and using the Left or Right button select Install menu.



- Using the **Down** button select **Program** and key in the programme position to be tuned with the number buttons, we suggest *Programme 0* for a media recorder.
- Use the Down button to select Search then press the Left or Right button to search. The television will begin searching for channels.
- Each signal will show on the television, if it is not your media recorder press the **Left** or **Right** button to restart
- When your media recorder signal is found, save the selection by pressing the **Down** button until **Store** is highlighted, then press the **Left/Right** or **OK** button to save.
- Repeat for each programme position to be tuned then press BACK to finish.

Note: Press SOURCE button to select between TV or DTV.

Analogue APS and Programme Sorting

Before switching on the television put your decoder and media recorder to **Standby** if they are connected and ensure the aerial is connected to your television.

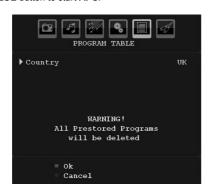
APS (Automatic Programming System)

When the APS feature is selected all channels and settings will be lost, the television will return to factory settings and then re-tune.

 Press MENU and using the Left or Right button select Program Table tab.



• The **Program** screen will appear on the screen. Press the **BLUE** button to start **APS**.



- Press the Left or Right button to set the country.
- Press the BLUE button to cancel APS or the RED or OK button to start.



You must allow the television to complete the search.

- When the search is complete the television will automatically select programme position 1. This may not be a clear picture or the signal may be weak, so the station order can be changed using program table which will appear on the screen.
- · Press BACK to finish.

Sorting Programme Positions - Analogue

- Channels may be moved and saved to the position of your choice.
- Select Programme Table tab from the main analogue TV menu.
- With the list of channels showing, use navigation buttons to highlight the channel you want to move and press GREEN button. The selected channel will be highlighted with a frame.
- Use navigation buttons move through the list to your preferred position. As you do so, the other channels will move to make room.
- When finished, press **GREEN** button to save your move.

Stereo and Bilingual Transmissions and Channel List

Stereo and Bilingual Transmissions

For ATV programmes

If stereo or dual language broadcasts are transmitted, the word Stereo or Dual will appear on the screen each time positions are changed, disappearing after a few seconds. If the broadcast is not in stereo, the word Mono will appear.

Stereo... Press LANG. to select Stereo or Mono.

Bilingual... Bilingual transmissions are rare. If they are transmitted, the word Dual will be displayed. Choose the required programme number, and if the word Dual appears, press **LANG.** to select Dual 1, Dual 2 or Mono.

For DTV Programmes

To view current language and for changing to an alternative language (if available), press **LANG**. button. Available options will be listed.

Viewing Channel List

The channel order may be changed to suit your personal preference.

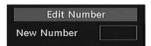
 Select Channel List from the main DTV menu and press OK



- Press Up or Down button for selecting a channel. You can press RED or GREEN button to move page up or page down.
- To watch a specific channel, highlight it by using Up or Down buttons. Afterwards highlight Select tab by using Left or Right buttons. Press OK button.

Moving a Channel

- Highlight the desired channel by using Up or Down buttons.
- Select Move option in the channel list and press OK button.
- Edit Number screen will be displayed. Enter the desired channel number by using the numeric buttons on the remote control. If there is a previously stored channel on that number, a warning screen will be displayed. Select Yes if you want to move the channel and press OK.



 Press **OK** button to process. Selected channel is now moved.

Deleting a Channel

 Select the channel that you want to delete and select **Delete** option. Press **OK** button to continue.



• A warning screen will appear. Select **Yes** to delete, select No to cancel. Press **OK** button to continue.

Renaming a Channel and Viewing Info Banner and Programme Locking EPG

Renaming a Channel

• Select the channel that you want to rename and select Edit Name option. Press **OK** button to continue.



- Pressing Left or Right button moves to the previous/next character. Pressing Up or Down button changes the current character. Pressing the numeric buttons '0...9' replaces the highlighted character with the characters printed above the button one by one as the button is pressed.
- When finished, press OK button to save. Press MENU to cancel.

Locking a Channel

You can press **GREEN** button to tag/untag all channels; **YELLOW** button to tag/untag a single channel.

- Select the channel that you want to lock by using Up or Down buttons.
- Select Lock option by using Left or Right buttons. Press OK button to continue.
- You will be asked to enter parental control PIN. Enter the PIN number.

Note: Default PIN is set to 0000.

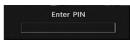
 Press OK button when the desired channel is highlighted to lock/unlock the channel. Lock symbol will be displayed next to the selected channel.

Viewing Info Banner

 Press INFO button the information screen will appear giving details of the channel and programme currently being viewed.



- Whenever you change channel, the TV displays the broadcast picture along with an information banner at the bottom of the screen (available only in DTV mode). This will remain on the screen for a few seconds.
- If the selected channel is locked, you must enter the correct four numeric code to view the channel. "Enter PIN" will be displayed on the screen in such a case:



• Enter the PIN number to continue.

Electronic Programme Guide

 Select the on-screen guide by pressing EPG, the guide screen will appear highlighting details of the channel and programme currently being viewed. This may take a few moments to appear.



- For information on a highlighted programme, press INFO button.
- For details of other programmes currently available, press RED or GREEN to scroll up and down the list. As channels are selected, details of the programme currently being broadcast will appear.
- To set the timer for a selected programme, press the OK button to select Timers menu.
- Press YELLOW or BLUE for advancing to next or previous day.
- Press (SWAP) button to jump to the current broadcast.

Programme Searching, Displaying Subtitles and Language Settings

Programme Searching

From the guide screen, you can use search feature.

 Press "0" button on the remote control to view Guide Search menu. Using this feature, you can search the programme guide database in accordance with the genre selected or with name match.

Displaying Subtitles

In digital mode, this feature will show subtitles on the screen in the selected language provided they are being broadcast.

- Press SUBTTL button to activate available subtitles.
- Press **SUBTTL** button again to turn off subtitles.

Note:

• If subtitles are on and a language option is set, pressing the "

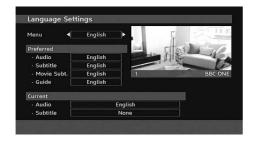
" button causes the following warning message (** for UK only):



Language Settings

Using this menu you can adjust the preferred language settings.

 Select Language from Setup menu and press OK to view this menu. Press the BACK button on the remote control to exit.



Preferred

These settings will be used if available. Otherwise the current settings will be used

Audio: by pressing **Left** or **Right** keys change the audio language.

Subtitle: alter the subtitle language with **Left** or **Right** keys. The chosen language will be seen in subtitles.

Movie Subtitle: In order to display subtitles properly, use this setting to select a movie subtitle language. By pressing **Left** or **Right** button, select the desired language option.

 $\mbox{\bf Guide}\colon\mbox{\bf By pressing Left}$ or $\mbox{\bf Right}\;$ buttons change the guide language.

Current

Audio: if audio language is supported change the audio language by pressing **Left** or **Right** buttons

Subtitle: if subtitle is backed up, alter the subtitle language with **Left** or **Right** buttons. The chosen language will be seen in subtitles.

Digital Settings - Parental Control, Menu Lock, Set PIN

You can view or set parental preferences of your TV.

Viewing Parental Control Menu

 While in DTV mode, press MENU to view main menu. Select Setup from the list and press OK button.



- Select Configuration by using Up or Down button and press OK.
- Select Parental Control by using Up or Down button and press OK.
- A dialogue box asking for the lock key will be displayed.
 The default key is set to 0000. Enter the PIN.
- If it is incorrect, "Wrong Pin" OSD will be displayed. If it is correct, the Parental Control menu will be displayed:



Menu Lock

In menu lock you can set locking for all menus, or the Installation Menu to restrict access to these menus. If the menu lock is disabled, there will be free access to the menu system.

• Use **Up** or **Down** buttons to go to Menu Lock option. Use **Left** or **Right** buttons to choose Menu Lock Mode.

DISABLED: All menus are unlocked.

ALL MENUS: All Menus are accessible only with the correct lock key. So the user cannot add, delete, rename, channels, cannot set timers.

INSTALLATION MENU: Installation menu is locked. So the user can't add channels. Changes will be updated after exiting 'Configuration Menu'.

Set PIN

- Use Up or Down buttons to select Set PIN option. Press OK to display the Set PIN window.
- Use numeric buttons to enter new pin number. You will need to input your new pin a second time for verification purposes.
- After typing correct PIN numbers, PIN number will be changed.



Note: The factory default pin number is 0000, if you change the pin number make sure you write it down and keep it

Digital Settings - Configuration

You can configure DTV settings of your TV by using digital Configuration menu.

Viewing Configuration Menu

You can configure the settings of your TV. Select Configuration from Setup menu and press **OK** to view this menu. Press the **BACK** button on the remote control to exit.



Hard of Hearing (* for EU countries only)

If the broadcaster enables any special signal concerning the audio, you can set this setting as On to receive such signals.

 Use Up or Down button to select Hard of Hearing and then press Left or Right button to set this setting as On or Off.

Controlling Favourite Mode

Use this function to enable or disable favourite mode.

 Press Left or Right button to set this function as on or off.

Channel List Mode

You can set a viewing type for channel list using this setting

- In the **CONFIGURATION** menu, use **Up** or **Down** buttons to select Channel List option.
- Press Left or Right button to set this function to TV Only, Radio Only, Text Only or Show All.

Scan Encrypted

When this setting is on, search process will locate the encrypted channels as well. If it is set as OFF manually, encrypted channels will not be located while in automatic search or manual search. Scan Encrypted Channel feature will always be ON after performing first time installation.

- In the CONFIGURATION menu, use Up or Down buttons to select Scan Encrypted.
- Press Left or Right button to set this function as On or Off

Receiver Upgrade

This feature helps to keep your TV updated. It works automatically and searches for new information when available. Note that this setting is inactive to be modified.

 Please ensure that the TV is set to standby mode. The TV automatically goes to active standby mode at 3.00 A.M. each day and searches for any new information which may be broadcasted and will download this to your receiver automatically. This operation will normally take approximately 30 minutes.

Note: Your TV may start in First Time Installation mode after software update.

Note on Analogue switch-off

This is a digital television which is integrated to allow the use of both digital and analogue services. However, during the lifetime of this set it is very likely that analogue services will be switched off to allow for more new digital services.

This 'switch-off' will happen in a number of phases, which will be advertised in your area well in advance. It is recommended that at each phase the television is re-tuned to ensure that existing and new digital services can be viewed without disruption.

Digital Settings Configuration continued

General Controls

Some of the main controls of your TV are as the following.

Audio Description (optional)

Audio description refers to an additional narration track for blind and visually impaired viewers of visual media, including television and movies. The description narrator talks through the presentation, describing what is happening on the screen during the natural pauses in the audio (and sometimes during dialogue, if deemed necessary). You can use this feature, only if the broadcaster supports that additional narration track.

- In the configuration menu, highlight Audio Description by pressing Up or Down buttons and press OK.
- Use Up or Down buttons to select an item. Then use Left or Right buttons to set.



Audio Description: This function enables or disables the audio description feature.

Preferred Language: You can define a preferred language by using this setting. This setting can be used only when it is available.

Relative Volume: Using this option, the Audio Description volume level can be increased or decreased relatively, according to the general volume.

Standby Search (*)

(*) This setting is visible only when the Country option is set to Denmark, Sweden, Norway or Finland.

If the Standby Search is set to On, when the TV is in standby mode, the TV will look for any changes in the saved channels.

- Use Up or Down button to select Standby Search and then press Left or Right button to set this setting as On or Off.
- If you change Standby Search to Off, this function will be unavailable. To use Standby search please make sure that you select Standby Search as On.

Viewing Main Menu

- Press "———"/" +" buttons on the TV at the same time to view main menu.
- Press MENU button on the remote control to view main menu

Selecting Programme Positions

To select a programme position use the numbered buttons on the remote control. Programme positions can also be selected using $\bf P+$ and $\bf P-$.

Press INFO to display the on-screen information i.e. programme position, stereo/mono signal and picture format. To revert to the previous programme position press (SWAP)

Input Selection

Use the Input Selection window if the television does not switch over to a connected source automatically.

 Press SOURCE button on your remote control for directly changing sources. Or select Source option from the main menu by using Left or Right button. Use then Up or Down button to highlight an input and press Right button to select

Note: You can mark desired source options by pressing the **OK** button. Therefore, when **SOURCE** button is pressed, only the marked source options will be available (except for the TV source).



Analogue Sound Controls

You can set sound preferences of your TV.

Controlling Volume and Muting Sound

Volume

Press V+ or V- to adjust the volume.

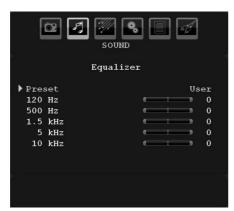
Sound Mute

Press "X" once to turn the sound off and again to cancel.

Equalizer Settings

You can customize current sound mode settings. Select the appropriate mode in accordance with the installation location of the TV and adjust the equalizer on-screen as desired.

- · Select the SOUND menu.
- Press **Up** or **Down** to highlight **Equalizer**, and then press



- Press Left or Right button to change the preset. In equalizer menu, the preset can be changed to Music, Movie, Speech, Flat, Classic and User.
- Select the desired frequency by pressing Up or Down button and increase or decrease the frequency gain by pressing Left or Right button.
- Press the MENU button to return to the previous menu.

Note: Equalizer menu settings can be changed only when the **Equalizer Mode** is in **User**.

Balance

This setting is used for emphasizing left or right speaker

- Press Up or Down button to select Balance.
- Press Left or Right button to change the level of the balance. Balance level can be adjusted between -32 and + 32

Headphone Volume

This setting is used to set the sound output when headphones are connected

- Press **Up** or **Down** button to select **Headphone**. Press **Right** button to view the headphone menu.
- Press Up or Down button to select Volume. Press Right button to increase headphone volume level. Press Left button to decrease headphone volume level. Headphone volume level can be adjusted between 0 and 63.

Sound Mode

This setting is used to select the sound mode of your television.

- Press Up or Down button to select Sound Mode.
- Using Left or Right button, you can select Mono, Stereo, Dual I or Dual II mode, only if the selected channel supports that mode.

AVL

Sometimes there can be large changes in volume when switching from a DTV 5.1ch to a DTV 2ch, an ATV channel, or an external input. Using the AVL feature reduces these volume differences.

- In the SOUND menu, press Up or Down to highlight AVL.
- Press Left or Right button to set AVL as on or off.

Picture Controls

Most of the picture controls and functions are available in both digital and analogue modes.

Picture Mode

This television offers the choice of personalising the picture style. Cinema, Dynamic and Natural are preset options and affect settings within the television.

- In the PICTURE menu, press Up or Down to select Mode.
- Press Left or Right to select the picture mode you prefer.

Picture Adjustments

You can customize current picture mode settings as desired. For example you change items such as, Brightness, Contrast, Colour, Sharpness and Hue.

• In the **PICTURE** menu, press **Up** or **Down** button to select the desired option.



· Press Left or Right button to set the level.

Note: Hue option can only be visible when the TV receives an NTSC signal.

Colour Temperature

Colour Temperature increases the 'warmth' or 'coolness' of the picture by increasing the red or blue tint.

- In the PICTURE menu, press **Up** or **Down** to select Colour Temp.
- Press Left or Right to choose from one of these options: Cool, Normal and Warm.

Note:

- Setting Cool option gives white colours a slight blue stress.
- Setting Warm option gives white colours a slight red stress.
- For normal colours, select Normal option.

Noise Reduction

Sometimes some words or picture elements to become distorted or pixelated. Using the Noise Reduction feature reduces this effect by smoothing out the edges.

 In the PICTURE menu, press Up or Down to select Noise Reduction. Press Left or Right to set Noise Reduction as Low, Medium, High or Off.

Film Mode

Films are recorded at a different number of frames per second to normal television programmes. Turn this feature on when you are watching films to see the fast motion scenes clearly.

- In the PICTURE menu, press Up or Down to select Film Mode.
- Press Left or Right button to set this feature as On or Off.

Game Mode

When Game Mode is set to On, specific game mode settings, which are optimized for better video quality, will be loaded.

- In the PICTURE menu, press Up or Down to select Game Mode.
- Press Left or Right button to set this feature as On or Off.

Note:

- Picture mode selection button on the remote control will have no function while Game Mode is on.
- Picture Mode, Contrast, Brightness, Sharpness, Colour and Colour Temp settings will be invisible and disabled while Game Mode is on.

Picture Zoom

- In the PICTURE menu, press Up or Down to select Picture
 Zoom
- Press Left or Right button to set this feature to Auto, 16:9, 4:3, Panoramic, 14:9, Cinema, Subtitle or Zoom.

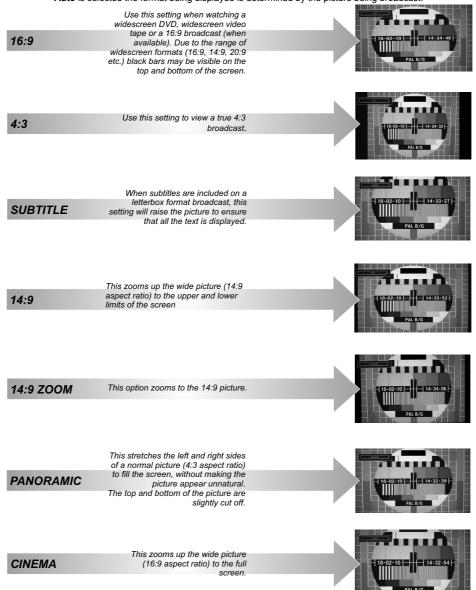
Resetting Picture Settings

This feature allows you to reset the current Picture Settings to the default values.

- Press \mathbf{Up} or \mathbf{Down} to select Reset and press $\mathbf{OK}.$

Changing Picture Format

Depending on the type of broadcast being transmitted, programmes can be viewed in a number of formats. Press the SCREEN button repeatedly to select between Auto, 16:9, 4:3, Subtitle, 14:9, 14:9 Zoom, Panaromic or Cinema. When Auto is selected the format being displayed is determined by the picture being broadcast.



Other Controls

Your television has a list of other controls that function in accordance with your preferences.

Child Lock

Panel Lock disables the buttons on the television. All buttons on the remote control can still be used.

- In the FEATURE menu, select Child Lock and choose On or Off using Left or Right button.
- When Child Lock is On, a reminder will appear when the buttons on the television are pressed. If the standby button is pressed, the television will switch off and can only be brought out of standby by using the remote control.

Default Zoom

While zoom mode is set as AUTO, the TV will set the zoom mode in accordance with the signal of the broadcast. If there is no WSS or aspect ratio information, the TV will then use this setting.

 In the FEATURE menu, select Default Zoom and choose Panoramic, 16:9, 4:3 or 14:9 using Left or Right button.

Blue Background

If the signal is weak or absent, the TV will automatically change to a blue screen. To enable this, set Blue Background to On.

• In the **FEATURE** menu, select **Blue Background** and choose On or Off using **Left** or **Right** button.

Menu Background

You can set the menu transparency by using this feature.

Press **Up** or **Down** button to select **Menu Background**. You can set menu background level by pressing **Left** or **Right** button.

- In the FEATURE menu, select Menu Background.
- Use Left or Right button to set the transparency level.

Menu Timeout

To set a specific display timeout for menu screens, set a value for this option.

In the FEATURE menu, select Menu Timeout and choose 5 sec, 30 sec or 60 sec using Left or Right button.

HDMI PC Full Mode (optional)

If you want to view PC screen in HDMI mode by using external connection, HDMI PC FULL MODE option should be On to adjust the screen ratio correctly. This item might be inactive in some resolutions.

Note: If you connect an HDMI device and switch the TV to HDMI mode, this feature will be visible (except for 1080i/1080P resolution).

Full Mode (optional)

If you connect a device via HDMI or YPbPr connectors and set 1080i/1080P resolutions, Full Mode item will be visible.

- You can set Full Mode as 1:1 or Normal by using Left or Right button.
- If you select 1:1, screen ratio will be adjusted correctly. If you set Normal, screen ratio may expand.

Ext Out

To turn on or off external output via scart socket, use this feature.

 Press Up or Down button to select Ext Out. Use Left or Right button to set the Ext Out as On or Off.

Note

For copying from a DVD or VCR device, you should choose desired source from source menu and turn "On" to EXT Out from feature menu.

Ext Out should be On in order to use Timers function in the DTV mode.

Timers - Digital and Analogue, Conditional Access

Programme Timers - Digital Only

This feature will set the television to go to a specific channel at a certain time. It can be used to view a particular programme, or by setting the mode to daily or weekly, can be used to view a series of programmes.

 Press MENU and Up or Down to select Timers item menu and press OK to continue.



 To add a timer, press the YELLOW button on the remote control. Then Add Timer window appears.

Channel: Left or **Right** keys will navigate the user through the TV or Radio list.

Date: Starting date is entered via the **Left/Right** or the numeric buttons.

Start: Starting time is entered via the **Left/Right** or the numeric buttons.

End: Ending time is entered via the **Left/Right** or the numeric buttons.

Change/Delete: permits or prohibits any modifications for other users.

Duration: Duration between Start and End time.

Repeat: You can set a timer to be repeated as Once, Daily or Weekly.

- You can save the adjustments by pressing the GREEN key or cancel the process by pressing the RED button.
- You can edit the list via GREEN key and delete with the RED button.

Sleep Timer - Analogue

The television can be set to turn itself Off after a certain length of time.

- When displaying analogue TV menu, use Left or Right button to select FEATURE menu.
- Press Up or Down button to select Sleep Timer.
- Use **Left** or **Right** button to set the desired time.

The timer can be programmed between ${\bf Off}$ and ${\bf 120}$ minutes in steps of ${\bf 10}$ minutes.

If **Sleep Timer** is activated, at the end of the selected time the TV goes automatically to standby mode

Conditional Access

The Common Interface Slot, situated on the side of the television, enables the insertion of a CAM (Conditional Access Module) and card. These are purchased from a service provider and allow additional subscription broadcasts to be viewed. For more information, see a service provider.

- Insert the CAM and card into the Common Interface Slot, following the instructions provided with the CAM.
- Press the MENU button to display the main menu and use the "▼" or "▲" button to highlight the Conditional Access line and press the OK button:

Conditional Access

Important:

- Switch off the TV and unplug from the mains.
- The CAM should be correctly inserted, it is impossible to insert fully if reversed. The CAM or the TV terminal may be damaged if the CAM is forcefully inserted.
- Connect the TV to the mains supply, switch on and then wait for few moments until the card is activated.
- Some CAMs may require the following set up. Please set the CAM by entering the IDTV menu, Conditional Access then pressing the "OK" button. (CAM set up menu is not displayed when it is not required.)
- To see the viewing contract information: enter IDTV; press the "MENU" button, then highlight Conditional Access and press the "OK" button.
- When no module is inserted, "No Conditional Access module detected" message appears on the screen.
- Refer to the module instruction manual for details of the settings.

Note: Insert or remove the CI module only when the TV is switched off or in standby mode.

Manual Start

- To display Media Browser window, you can press MENU button on the remote control and then select Media Browser by pressing Up or Down button.
- Press OK button to continue. Media Browser menu contents (depending on the contents of your USB drive) will be displayed.

USB Media Browser

This TV allows you to enjoy photo or music files stored on a USB device.

Auto Start

 When you plug a USB device, the following screen will be displayed:



 Select YES by pressing Left or Right button and press OK button. Media browser will be displayed.



 You can play music, picture and video files from a USB memory stick.

Note:

If you plug USB stick while in analogue mode, the TV will automatically switch to digital TV mode.

Some USB compliant devices may not be supported.

If the USB stick is not recognized after power off/on or First Time Installation, first, plug the USB device out and power off/on the TV set. Plug the USB device in again.

Playing MP3 Files

To play mp3 files from a USB disk, you can use this menu screen



- Use Up or Down button to highlight a file.
- Press **OK** to play the selected file.
- Press Play (button) button to play all media files in the folder starting with the selected one.
- Press Pause button to pause a playing file.
- Use Stop (button) button to stop playback.
- Use Left or Right button to jump to th previous or next file to play.
- Press INFO button to play files randomly. If shuffle mode is enabled, previous/next function will also jump to the tracks randomly.
- Use **BLUE** button to play the selected file repeatedly.

Viewing JPG Files

To view photo files from a USB disk, you can use this menu screen.



- Use **Up** or **Down** button to highlight a file.
- Use numeric (1...9) buttons) to jump to theselected file.
- Press OK button to view the selected picture in full screen.
- Press GREEN button to start the slideshow with all pictures in the folder.

USB Media Browser, continued Slideshow feature.

Slideshow Feature

You can use this feature to display photos on your TV.



- Press Pause (button) button to pause a playing file.
- Press Continue (button) button to continue with the slideshow.
- Press Left or Right button to jump to previous or next file of slideshow
- Use Up or Down button to rotate the picture using up/ down buttons.
- Press Return/Back to exit.
- Press RED button to play in random and continuous mode and icon turns the highlighted icon.
- If during the slideshow when the shuffle mode is enabled, next photo will be choosen randomly
- If the loop function is not enabled, the slideshow will stop at the end. If the loop function is enabled, after the slideshow ends, it will start again and again.
- highlighted icon.

To Close the Media Player

• Press MENU button on the remote control.

PC Mode

PC Picture Position and PC Picture menus are described below. The other menu items are identical to TV mode menus.

Please see the previous sections.

Autoposition

If you shift the picture horizontally or vertically to an unwanted position, use this item to put the picture into correct place automatically.

 Select the PC POSITION option from the main menu. PC Position menu appears on the screen:



 Press the Down button to highlight Autoposition and then press the OK button.

H Position

H (Horizontal) Position shifts the image horizontally to right hand side or left hand side of the screen.

- In the PC POSITION menu press the Down button until H Position is highlighted.
- Press the Left or Right button to adjust the value.

V Position

V (Vertical) Position shifts the image vertically towards the top or bottom of the screen.

In the PC POSITION menu press the Down button until V Position is highlighted.

Press the Left or Right button to adjust the value.

Dot Clock

Dot Clock adjustment corrects interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.

- In the PC POSITION menu press the Down button until Dot Clock is highlighted.
- Press the Left or Right button to adjust the value.

Phase

Depending on the resolution and scan frequency that you input to the TV Set, you may see a hazy or noisy picture on the screen. In such a case you can use this item to get a clear picture by trial and error method.

- In the PC POSITION menu press the Down button until Phase is highlighted.
- · Press the Left or Right button to adjust the value.

Dot Clock

Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.

 In the PC POSITION menu press the Down button until Dot Clock is highlighted.

Press the Left or Right button to adjust the value.

PC Picture controls

Contrast, Brightness and Colour Temperature adjustments in this menu are identical to adjustments defined in TV picture menu.

When Colour Temp is Manual, you can also adjust the R, G, B items. R, G and B adjust the TV image colour in PC RGB mode. You can change the TV colour to your desired colour: R (Red), G (Green), B (Blue)

Select Reset and press \mathbf{OK} button to reset the adjustments to factory default settings.

Note:

For switching to PC source, press SOURCE button on your remote control and select PC input. You can also use Source menu to switch to PC mode.

Note that PC mode menu settings are available only while the TV is in PC source

Digital and Analogue (if available) Text Services

This television has a multi-page text memory, which takes a few moments to load.

Digital Text and Interactive Services

The digital text and interactive services are the up-to-date way of viewing service information, using computer-style formats, incorporating pictures and interactive views.

They offer high quality on-screen images with multi-colour photographic still images, advanced text and graphics and are user-friendly. These services are free to anyone with a digital television, however; they are not available for all digital stations and are dependant on the broadcaster.

Simply using the navigation and coloured buttons on the remote control, navigating pages and pulling-down menus are quick and easy.

Using Digital Interactive Services

- Most channels that offer interactive services will show a prompt, for example, "PRESS RED".
- To access digital interactive services press the or RED button. It may take a few seconds to load.
- Using Up or Down button, highlight the required subject and press OK.
- · Use the coloured buttons as instructed.
- To return to normal viewing press

Analogue Text Services (if available)

Before using the text services the required language region must be chosen.

- Select TXT Language from the FEATURE menu.
- Press the Left or Right button to choose the required language region.



 After the teletext language is selected, press MENU button to exit.

Using Button

- To view text services press . Press again to superimpose text over a normal broadcast picture. Pressing this button again will split the screen into two windows, one displaying the teletext and the other displaying the current channel (PAT).
- Press again to return to normal viewing.
- Programmes cannot be changed until text is cancelled.
- The first text page shown will be the initial page.
- Any text page can be accessed by entering the 3 digit page number using the numbered buttons, pressing the coloured buttons or pressing to advance to the next page and to go back to the previous page.
- Four coloured titles will appear at the base of the screen.
 To access one of the four given subjects, press the relevant coloured button on the remote control.
- For further information on your particular text system(s), see the broadcast text index page or, consult your local Toshiba dealer.

Below is a guide to the functions of the remote control text buttons.

Acessing Sub-Pages

If a text page has sub-pages, press ">" and enter the subpage numbers 01,02,03 etc. which can be selected using Left/ Right buttons at the bottom of the text page under the coloured links.

Revealing Concealed Text

To discover the solutions on quiz and joke pages press the **INFO** button.

Holding a Page

At times it is convenient to hold a page of text. Press **OK** and hold symbol will appear in the top left of the screen. The page will be held on screen until the button is pressed again.

Enlarging the Text Display Size

Press **SCREEN** once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to normal size.

Note: Analogue text is not available in certain areas due to Digital switchover.

Appendix A: PC Input Typical Display Modes

The display has a maximum resolution of 1600 X 1200. The following table is an illustration of some of the typical video display modes.

Your TV may not support different resolutions. Supported resolution modes are listed below.

If you switch your PC to an unsupported mode, a warning OSD will appear on the screen.

	Reso	lution	Frequ	uency		Supported
Index	Hor	Ver	Ver (Hz)	Hor (KHz)	Standard	Zoom Modes
1	640	480	60	31.5	VESA	16:9, 4:3
2	640	480	72	37.9	VESA	16:9, 4:3
3	640	480	75	37.5	VESA	16:9, 4:3
4	800	600	56	35.2	VESA	16:9, 4:3
5	800	600	60	37.9	VESA	16:9, 4:3
6	800	600	70	43.8		16:9, 4:3
7	800	600	72	48.1	VESA	16:9, 4:3
8	800	600	75	46.9	VESA	16:9, 4:3
9	832	624	75	49.7	MAC	16:9, 4:3
10	1024	768	60	48.4	VESA	16:9, 4:3
11	1024	768	70	56.5	VESA	16:9, 4:3
12	1024	768	72	57.7		16:9, 4:3
13	1024	768	75	60.0		16:9, 4:3
14	1152	864	70	64.2	VESA	16:9, 4:3
15	1152	864	75	67.5	VESA	16:9, 4:3
16	1152	870	75	68.9	MAC	16:9, 4:3
17	1280	768	60	47.7	VESA	16:9, 4:3
18	1360	768	60	47.7		16:9, 4:3
19	1280	960	60	60.0	VESA	16:9, 4:3
20	1280	1024	60	64.0	VESA	16:9
21	1280	1024	75	80.0	VESA	16:9
22	1600	1200	60	75.0	VESA	16:9

PIN Information

Before connecting any external equipment, turn off all main power switches. If there is no switch, remove the mains plug from the wall socket. Signal information for Mini D-sub 15 pin connector

Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	R	6	Ground	11	NC
2	G	7	Ground	12	NC
3	В	8	Ground	13	H-sync
4	NC*	9	NC	14	V-sync
5	NC	10	Ground	15	NC

^{*} NC = not connected

Appendix B: AV and HDMI Signal Compatibility (Input Signal Types)

Source	Supported Signal	Available	
	PAL 50/60	0	
EXT-1	NTSC 60	0	
(SCART)	RGB 50		0
	RGB 60		0
FAV	PAL 50/60		0
FAV	NTSC 60		0
	4801	60Hz	0
	480P	60Hz	0
	5761	50Hz	0
	576P	50Hz	0
YPbPr	720P	50Hz	0
TENEL	720P	60Hz	0
	10801	50Hz	0
	10801	60Hz	0
	1080P	50Hz	0
	1080P	60Hz	0
	4801	60Hz	0
	480P	60Hz	0
	5761	50Hz	0
	576P	50Hz	0
	720P	50Hz	0
	720P	60Hz	0
HDMI	10801	50Hz	0
	10801	60Hz	0
	1080P	24Hz	0
	1080P	25Hz	0
	1080P	30HZ	0
	1080P	50HZ	0
	1080P	60HZ	0

(X: Not Available, O: Available)

Note: In some cases a signal on the LCD TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

Appendix C: Supported File Formats for USB Mode

Media	File	Format		Remarks
Extension		Video	Audio	(Maximum resolution/Bit rate etc.)
			MPEG 1/2	Comple Date: 01/ . 40// la Dit Date:
Music	.mp3	-	Layer 1/2/3 (MP3)	Sample Rate: 8K ~ 48KHz, Bit Rate: 64K~320Kbps
		Baseline JPEG		WxH = 8902x8902 up to 77Mega-pixel
Photo	ina			Support format: 444/ 440/ 422/ 420/ Grayscale
Piloto	.jpg	Progressive JPEG		Up to 4 Mega-pixel
		Progres	SIVE JPEG	Support format: 444/ 440/ 422/ 420/ Grayscale

Specifications and Accessories

DVB-T Broadcast Systems/Channels Broadcast Systems/Channels

UK UHF 21-58 PAL-I UK21-UK69

Video Input PAL, SECAM, NTSC 4.43

Stereo Nicam

Visible Screen Size (approx.) 22" 54cm

Display 16:9

Sound Output (at 10% distortion) Main 2.5 + 2.5

Power Consumption (approx.) 50W Standby Power Consumption (approx.) 0.9W

External Connections

SCART Input 21-pin SCART RGB, A/V

YPbPr Input Mini D-Sub 16-Pin Analogue via YPbPr to PC cable (optional).

FAV Input (Side) Phono Jack Video

Phono Jacks Audio L + R

HDMI 1 Input HDMI® (Enable Content Type, INSTAPORT™, RGB Range supported)

PCInputMini D-Sub 16-Pin AnalogueRGB Signal

USB Port Media Browser Interface Version: USB 2.0

USB Class: Mass Storage File System: FAT32

Headphone Socket 3.5 mm stereo

Dimensions (approx.) 37 cm (H) 53 cm (W) 6 cm (D)

(Height dimension includes foot stand)

 $\begin{tabular}{lll} Weight (approx.) & 5.60 kg (without stand & 5,35 kg) \\ \begin{tabular}{lll} \bf Operating \ Conditions & Temperature 5°C - 35°C (41°F - 94°F) \\ \end{tabular}$

Humidity 20 - 80% (non-condensing)

Supplied Accessories Remote Control

2 batteries (AAA,IEC R03 1.5V)

P Clip

License Information

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC

DVB is a registered trademark of the DVB Project.

[1] EIA/CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the television.

Cleaning the screen and cabinet..

Turn off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you do not use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.

Disposal..

The following information is only for EU-member states:

Disposal of products

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.

The black bar indicates that the product was placed on the market after August 13, 2005.

By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

Disposal of batteries and/or accumulators

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.





Questions and Answers

Below are the answers to some of the most common queries. For more information, go to www.toshiba.co.uk

Q Why is there no sound or picture?

Check the television is not in standby mode.

Check the mains plug and all mains connections.

O Why is there a picture but no sound?

Check the volume has not been turned down or that sound mute has not been selected.

Q What can cause a poor picture?

Interference or a weak signal. Try a different television station.

Q Why doesn't the video/DVD being played show on screen?

Make sure the media recorder or DVD player is connected to the television as illustrated in the beginning chapters, and then select the correct input by pressing **SOURCE**.

Q Why is the VCR/DVD picture in black and white?

Check that the correct EXT 1 input setting has been chosen?.

Why is there a good video picture but no sound?

Check all lead connections.

No sound or unacceptable format sound may be received. Check the volume has not been turned down or that sound mute has not been selected.

Q Why doesn't the remote control work?

Check the batteries aren't dead or inserted incorrectly.

Q Why don't the controls on the side the television work?

Check that CHILD LOCK is not selected.

Why is the sound only coming from one speaker when stereo sound is selected?

Check that the balance in the **SOUND** menu hasn't been set to one side.

Why are there problems with analogue text service?

Good performance of the analogue text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check the aerial. Go to the main index page of the analogue text service and look for the *User Guide*.

O What is DVB-T?

Digital Video Broadcast via an aerial/antenna.

How are radio channels selected?

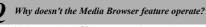
You can select them via the Channel List.

Q What can be done if the PIN number has been forgotten?

You can reset TV and perform first time installation. Ensure that no-one else can use this by removing the Owner's Manual.

Why are there horizontal stripes and/or blurred images on the screen when in PC mode?

The Phase may need adjustment. Select PC Settings and highlight Phase and adjust until the picture clears.



Make sure that USB is connected correctly.
Incorrect behaviour may occur with a USB Hub connection.

O Why only certain digital channels can be viewed?

Favourite mode is set to On.

Q Why are some encrypted digital channels unavailable?

Your subscription needs upgrading. Contact your service provider.

Q Why dees the active standby LED sometimes take longer to go out?

When put into standby the television's active standby will automatically search all available channels for downloads, provided Automatic Download is enabled. The time it takes to do this may vary.

Q Why is the DTV main nenu unavailable?

Analogue mode (TV) is selected. Switch to DTV mode

Why when digital subtitles have been selected are they not showing on screen?

Subtitles are not currently being transmitted by the

Why is the soundtrack in English when a different audio language has been selected?

The programme is currently being broadcast with an English soundtrack only.

O Why is there no digital text service?

The digital programme being viewed is not broadcasting digital text. Try another digital programme.

Q Why is the digital channel locked?

The channel has been selected in the locked programmes list.

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Features

General Properties

- DVD / CD / CD-R / CD-RW / MP3 / JPEG / MPEG.
- NTSC/PAL playback (according to disc content)
- Multi-Audio (up to 8) support (According to disc content)
- Multi-Subtitle (up to 32) support (According to disc content)
- Multi-Angle (up to 9) support (According to disc content)
- 8 level parental control
- Fast forward and rewind in 5 different speeds. (2x, 4x, 8x, 16x, 32x)
- Slow motion playback in 4 different speeds. (1/2x, 1/4x, 1/8x, 1/16x forward)
- Frame by frame forward playback.
- · Search Mode
- Repeat
- · Copied discs may be incompatible.

Note

- This DVD player may not support some MP3 recordings due to differences in recording formats or disc type.
- Please read the owner's manual about MP3 playback.
- CD-R/CD-RW discs recorded by CD-DA method can be played. Some CD-R/CD-RW discs may be incompatible due to laser pick-up and disc design.
- DVD-R/RW discs recorded by DVD-Video method can be played. Some DVD-R/RW discs may be incompatible due to laser pick-up and disc design.
- Some discs may be incompatible with JPEG Viewer function due to different recording format or condition of the discs.

Safety Information

CAUTION

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

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE UNIT.

CLASS 1 LASER PRODUCT

WHEN THIS UNIT IS PLUGGED INTO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.



USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.



DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

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

Notes on Discs

On handling discs

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





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

On cleaning

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





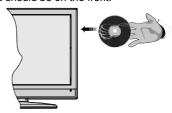
 Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

Licence Notification

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

How to Watch a DVD

When placing a disc into the loader, labelled side of the disc should be on the front:



When TV set is turned on, first switch to DVD source by using the **SOURCE** button on the remote control. Press play on the remote control, or directly press play button at the side panel. If there is no disc inside the loader, place a DVD first and press play.

DVD Control Panel Buttons

A. Disc loader

B. Play / Pause

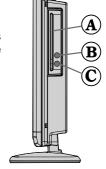
Plays/pauses the disc. When DVD menu (root menu) is active, this button functions as "button select" (selects the highlighted item in menu) if this is not prohibited by the disc.

C. Stop / Eject

Stop playing disc / Eject or Load the disc

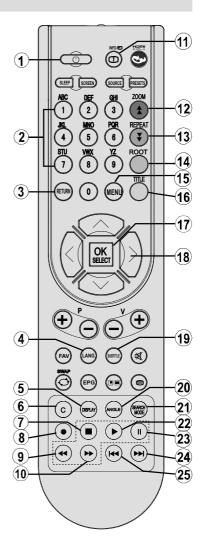
Note:

- You cannot eject the disc via the remote control.
- While playing a file, you should press STOP button three times to eject.



Overview of the Remote Control

- 1. Standby
- 2. Numeric buttons
- 3. Return back
- 4. Language selection (Set language)
- 5. Display time / DVD menu
- 6. Clear
- 7. Stop
- 8. No function
- 9. Rapid Reverse
- 10. Rapid advance
- **11.** Info
- **12**. Zoom
- 13. Repeat
- **14.** Root
- **15.** Menu
- **16.** Title
- 17. OK / Select
- 18. Navigation Buttons
- 19. Subtitle
- 20. Angle
- 21. Search mode
- **22.** Play
- 23. Pause
- 24. Skip next
- 25. Skip previous



English - 37 -

General Operation

You can operate DVD, movie CD, music or picture CD's content by using the proper buttons on your remote control. Below are main functions of commonly used remote control buttons.

Buttons on the Remote Control	DVD Movie Playback Playback		Picture Playback	Music Playback		
•	Play	Play	Play	Play		
II	Pause Pause		Pause	Pause		
	Stop	Stop	Stop	Stop		
HH/ HH	Skip backward/forward	Skip backward/forward	Previous / Next	Previous / Next		
◄/▶	Shifts t	he zoomed picture left	or right (if availabl	e).		
▼/▲	Highlights a menu it	em. / Shifts the zoome	d picture up or dov	vn (if available).		
4/		Rapid advance / Ra				
ANGLE	Views the scene from availa	m different angles (if able).	Changes slide effect (depends on the content).	Х		
С		Clears digit (if av	ailable).			
DISPLAY	D	Displays time / Views main setup menu				
INFO	Time counter mode selection (during playback). Press repeatedly to switch between modes.					
LANG.	Audio la	nguage.	X	X		
MENU	Displays TV menu.					
OK / SELECT		Enter / View /	Play			
REPEAT		Displays repeat	options.			
RETURN	Return	ns back to the previous	menu (if available	e).		
ROOT	Go	Goes back to the root folder (if available).				
SEARCH MODE (*)	Direct selection of	of scenes or time.	Selects the desired file.	Selects the desired file.		
SUBTITLE	Subtitle on-off. Press between sub	repeatedly to switch otitle options.	Х	Х		
SWAP	Media source selection.					
TITLE	Displays disc menu (if available).	Displays disc menu (if available).	Х	Х		
ZOOM	Zooms picture. Press repeatedly to switch between zoom options.					

Other Functions – Button Combinations (During playback)				
II + ▶ Slow forward.				
[Ⅱ + >>] + ← >>	Sets slow forward speed.			
>> + >>	Sets rapid advance speed.			
44 + 44	Sets rapid reverse speed.			
+ =	Confirms stop command.			
II + >> I	Press N repeatedly to advance manually.			

^(*) You can switch to title by pressing numeric keys directly. You need to press 0 and then digit key to switch one digit titles (example: to select 5, press 0 and 5).

General Playback

Basic Play

1. Please insert a disc to the loader.

The disc will be automatically loaded and play commences if the disc does not have any menus recorded on it.

A menu may appear on the TV screen after a few moments or the film may start immediately after the introduction of the Film Company. This sequence depends on the disc content and may change.

Note: Step 3 and 4 is available only when a menu is recorded on the disc.

- Press ▼ / ▲ / ◀ / ▶ or the number button (s) to select the preferred title.
- 3. Press SFLECT

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

For your reference:

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

Notes on Playback:

- No sound will be heard during Rapid advance or Rapid reverse.
- 2. No sound will be heard during Slow motion play.
- 3. Reverse slow motion play is not available.
- **4.** In some cases, the subtitle language is not changed immediately to the selected one.
- When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.
- When the player is restarted or the disc is changed, the subtitle selection is automatically changed back to the initial settings.
- If a language is selected, not supported by the disc, the subtitle language will automatically be set to the disc's priority language.
- 8. Usually a circulation will happen while switching to another language, that is you can cancel the subtitle by pressing this button a number of times until "Subtitle Off" appears on the screen.
- 9. When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.
- Some DVDs may not contain root and/or title menus.
- 11. Reverse stepping is not available.

12. For your convenience:

If you attempt to enter a number greater than the total time of the current title, the time search box disappears and " Input Invalid" message appears on up-left corner of screen.

Slide Show is disabled when the ZOOM mode is on

Setup Menu Items

Video Setup Page



TV Type

TV Type is only available as 'PAL'. The TV set also supports NTSC signal; however, the signal will be converted to PAL when it appears on the screen.

Language Setup



OSD LANG

You can select the default OSD language of the player menus

AUDIO

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

DISC MENU

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

SUBTITLE

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

Preferences



DEFAULT

If you choose RESET and press SELECT, the factorypresets are loaded. Parental level and parental password does not change.

DOWNMIX

This mode can be selected when the digital audio output of the TV is used.

SURROUND: Surround sound output. STEREO: Two channels stereo.

PARENTAL (Parental Level)



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

Parental Level can be adjusted to one of the eight levels. Level "8 Adult" adjustment let you watch all of the DVD titles ignoring the DVD disc's parental level. You can watch the DVD discs, which has the same or lower parental level than the player's level only.

PASSWORD (Change Password):

Using this item you can change the current password.

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

You can use C key to delete the incorrect entry.

Note: Factory preset of the password is "0000". You have to enter XXXX digital password every time you want to change the parental level. If you forget your password please see troubleshooting page.

Troubleshooting

The picture quality is poor (DVD)

- Make sure the DVD disc surface is not damaged. (Scratch, fingerprint etc.)
- · Clean the DVD disc and try again.

See instructions described in "Notes on Discs" to clean your disc properly.

- Ensure that the DVD disc is in the drawer with the label uppermost.
- A damp DVD disc or condensation may affect the equipment. Wait for 1 to 2 hours in Stand-by to dry the equipment.

Disc does not play

· No disc in the machine.

Place a disc into the loader.

· Disc incorrectly loaded.

Ensure that the DVD disc is in the drawer with the label facing front.

- Wrong type of disc. The machine cannot play CD-ROMS etc.
- The region code of the DVD must match the player.

Wrong OSD language

- · Select the language in the set-up menu.
- The language for the sound or subtitles on a DVD cannot be changed.
- Multilingual sound and/or subtitles not recorded on the DVD.
- Try to change the sound or subtitles using DVD's title menu. Some DVD's do not allow the user to change these settings without using the disc's menu

Some functions (Angle, Zoom etc) do not work

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

No picture

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

No sound

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

Distorted sound

 Check that the appropriate listening mode setting is correct.

Password

If you forget your password please reset the TV and perform first time installation. Ensure that no one else can use this by removing the Owner's Manual.

No response from remote control

- · Check batteries are fitted correctly.
- · Change the batteries.

If nothing works

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

Definition of Terms

Angle

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

Chapter Number

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

DVD

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

DVD has a structure consisting of two 0.6-mm thin discs, which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD disc has a greater capacity than a single 1.2 mm thick disc. Since the two thin discs are adhered to each other, there is the potential to achieve double-sided play sometime in the future for even longer duration play.

Subtitles

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

Time Number

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

Title Number

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

Track Number

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

LPCM

LPCM stands for Pulse Code Modulation and is digital audio.

MPEG

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

Disc Types Compatible with This Unit

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD	Audio	12 cm	Single - sided; 240 min. Double - sided; 480 min.	DVD contains excellent sound and video due to Dolby Digital and MPEG-2 System.
VIDEO	Video	8 cm	Single - sided; 80 min. Double - sided; 160 min.	Various screen and audio functions can be easily selected through the on screen menu.
AUDIO-CD		12 cm	74 m in .	An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality.
DIGITAL AUDIO	Audio	8 cm	20 m in.	less distortion and less deterioration of audio quality over time.
MP3-CD		12 cm	It depends	MP3 is recorded as a Digital Signal with better audio quality, less distortion and
MP3	Audio (xxxx.mp3)	8 cm	quality.	less deterioration of audio quality over time.
PICTURE-CD	Video	12 cm	It depends	JPEG is recorded as a Digital Signal with
J P E G	(still picture)	8 cm	on JPEG quality.	better picture quality over time.

Specifications

	<u>DVD:</u> SS/SL 4.7" (DVD-5)	CD-DA			
Types of Discs	SS/DL 4.7" (DVD-9)	CD-R			
Supported	DS/SL 4.7" (DVD-10)	CD-RW			
	DS/DL 4.7" (DVD-18)	MP3/JPEG			
	MPEG-2 Video Standard Decoding (MPEG-1 supported)				
	Full-Screen Video Display of 720 x 576 (PAL) & 720 x 480 (NTSC) pixe				
Video Type	50 and 60 Hz frame refresh rates (PAL & NTSC)				
	Digital bit-stream processing rate up to 108Mbits/sec Line resolution more than 500 lines				
Audio Type	MPEG Multichannel Decoding				
Audio Type	LPCM				
Audio Output	Outputs:				
Audio Output	24 bit /48, 44.1kHz	down-sampling DAC			

Supported File Formats

Maratia	File	Format		Remarks	
Media	Extension	Video	Audio	(Maximum resolution/Bit rate etc.)	
	.mpg/ .dat/	MPEG1	MPEG Layer 1/2/3		
	.000	MPEG2	MPEG2		
Movie		XviD/ 3ivx	PCM/MP3	XviD Verson up to: 1.1.2	
	.avi	MPEG4	PCM/MP3		
	.uvi	MS ISO MPEG4	PCM/MP3	Support SP and ASP	
	-	-	PCM	Sample Rate: 8K ~ 48KHz	
Music			MPEG 1/2	Sample Rate: 8K ~ 48KHz, Bit Rate:	
	.mp3	-	Layer 1/2/3 (MP3)	64K~320Kbps	
		Racali	ne JPEG	WxH = 8902x8902 up to 77Mega-pixel	
Photo	.jpg	Dasciii	Dascillic	Dascinic of EO	Support format: 444/ 440/ 422/ 420/ Grayscale
Filoto	.jpg	Progres	sive JPEG	Up to 4 Mega-pixel	
		riogics	3176 31 23	Support format: 444/ 440/ 422/ 420/ Grayscale	
	.srt				
External	.smi		Current Tout File Formet but de net current		
Subtitles	.sub			Support Text File Format, but do not support Picture File Format	
3	.ssa			. 1313.3 . 113 . 3.1131	
	.ass				

Playback Region Number

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

Some discs include region codes as shown on the right.



- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on DVD player with the same region code.
- The Region Number is described as 2 for this TV set.



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