



TOSHIBA

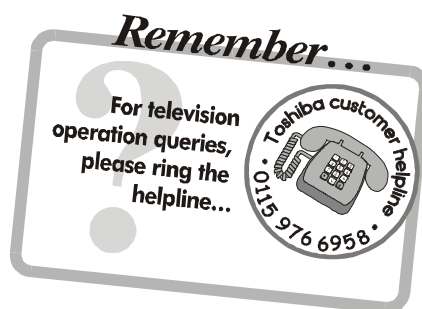
The power to open people's eyes

27WLT56B

Owners Manual

Contents

SETTING UP	
Safety Precautions – some do's and don'ts for you to be aware of	3
Installation and important information	4
The remote control – an at-a-glance guide	5
Connecting external equipment – a guide to connecting equipment to the back of the television	6
Connections and controls – switching on the television, standby, using the side controls, headphone socket, connecting equipment to the side of the television	8
Tuning the television – digital tuning, programme sorting	9
Tuning the television – auto tuning, manual tuning	10
Tuning the television – analogue tuning, programme sorting and manual tuning	11
Tuning the television – fine tuning	12
Tuning the television – analogue aps, choosing a language	13
CONTROLS AND FEATURES	
General controls – time display, stereo/bilingual transmissions, child lock	14
Sound controls – volume, sound mute, balance, wide sound, dynamic bass, AVL	15
Sound controls – equalizer, headphone	16
Picture format	17
Picture controls – picture mode, black stretch, tint	18
Picture controls continued – screen format, VCR mode, full screen-pip-split screen still picture	19
Timers	20
Digital programme guide and on-screen information	21
Digital parental controls – setting the pin, mode	22
Digital settings – favourite programmes, locked programmes, encrypted programmes	23
Digital settings continued – audio languages, subtitles, reset tv, common interface	24
Digital settings continued – version, auto upgrade and search for new software	25
Input selection , AV connections and analogue switch-off	26
PC input typical display modes	27
TEXT SERVICES	
Digital text and interactive services	28
Analogue text continued – control buttons	29
PROBLEM SOLVING	
Questions and answers	30
Notes – for your own records	32
Specifications and accessories – technical information about the television, supplied accessories	34



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 at least 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 mains supply required for this equipment is 230V AC 50Hz. Never connect to a DC supply or any other power source. 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. This set requires an earthed supply. IF IN DOUBT PLEASE CONSULT A COMPETENT ELECTRICIAN.

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 listen to headphones at high volume, as such use can permanently damage your hearing.

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 disabilities.

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.

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.

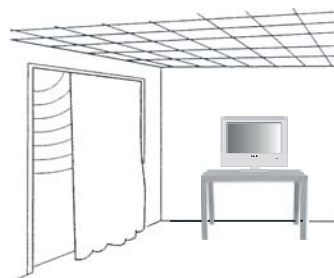
Installation and important information

Where to install

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 on a sturdy platform, the mounting surface should be flat and steady. It should then be secured to the wall with a sturdy tie using the clip on the back of the television, this will prevent it from falling over.

Make sure the television is located in a position where it cannot be pushed or hit by objects and that small items cannot be inserted into slots or openings in the case.



Please take note

EXCLUSION CLAUSE

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

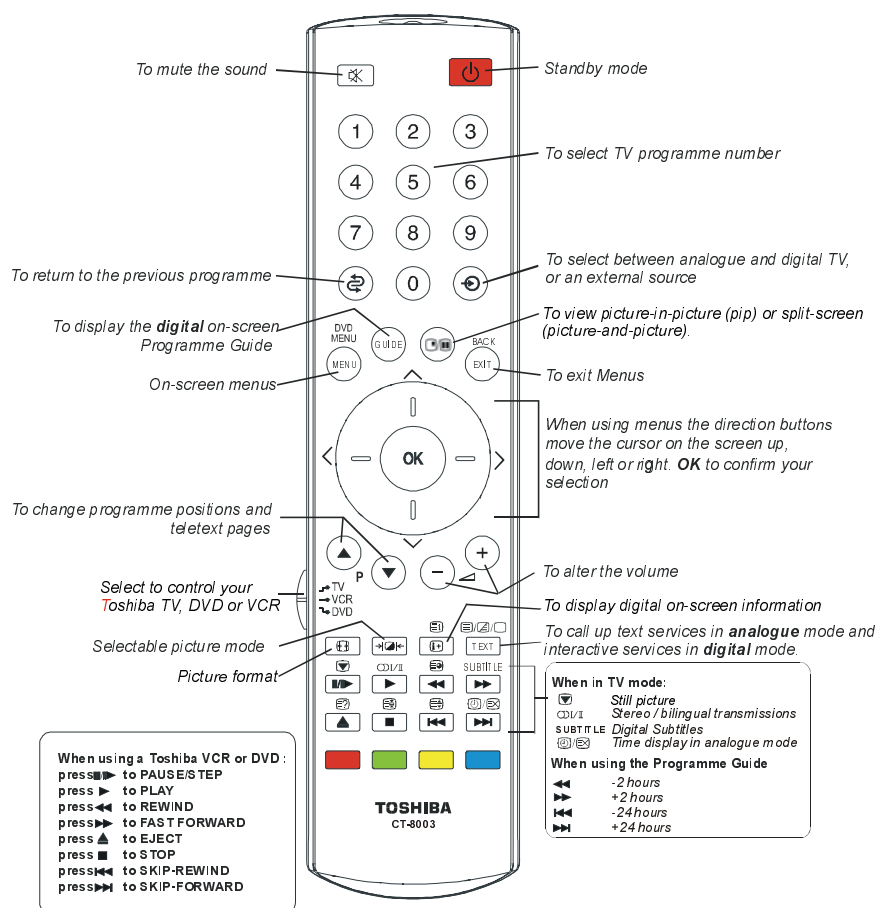
- i) fire;
- ii) earthquake;
- iii) accidental damage;
- iv) intentional misuse of the product;
- v) use of the product in improper conditions;
- vi) loss and/or damage caused to the product whilst in the possession of a third party;
- vii) any damage or loss caused as a result of the owner's failure 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.

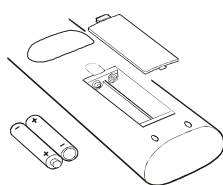
If stationary images generated by text services, channel identification logos, computer displays, video games, on screen menus, etc. are left on the television screen for any length of time they could become conspicuous, it is always advisable to reduce both the brightness and contrast settings.

The remote control

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



Inserting batteries and effective range of the remote



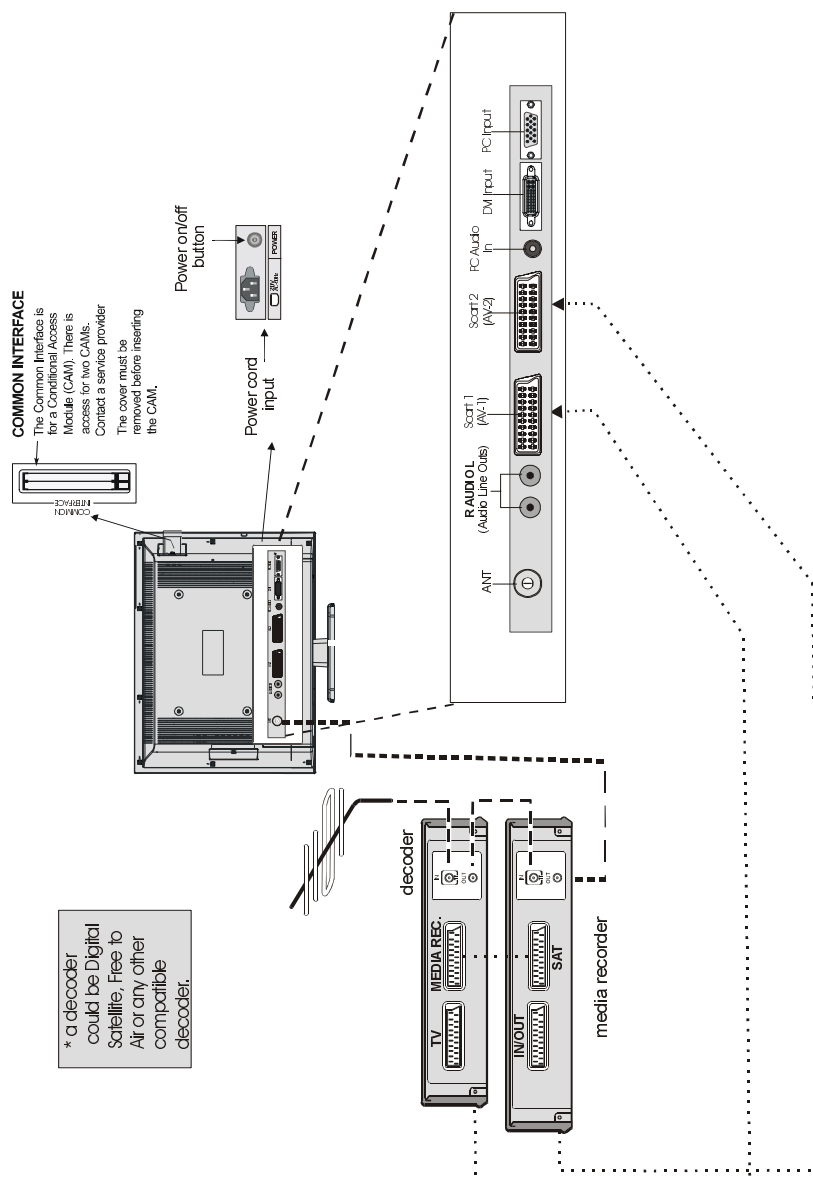
Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the right way round. Suitable battery types for this remote are AAA, IEC R03 1.5V.

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.

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.

Connecting external equipment

Before connecting any external equipment, disconnect from the main power. Ensure that the aerial is connected.



Aerial cables: — — — — —

Connect the aerial to the socket on the rear of the television. If you use a decoder and/or a media recorder it is essential that the aerial cable is connected through the decoder and/or through the media recorder to the television.

SCART leads:

Connect the media recorder **IN/OUT** socket to the television. Connect the decoder **TV** socket to the television. Connect the media recorder **SAT** socket to the decoder **MEDIA RECORDER** socket.

Before running **AUTO TUNING** put your decoder and media recorder to **Standby**.

A wide variety of external equipment can be connected to the back of the television, therefore the relevant owners manuals for all additional equipment must be referred to.

We recommend **SCART 1** for a decoder and **SCART 2** for a media recorder.

If connecting RGB equipment to **SCART 2**, set the **INPUT** for **AV-2 RGB**. See page 26.

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  to select between **ATV**, **AV-1**, **AV-1 RGB**, **AV-2**, **AV-2 RGB**, **DTV**, **PC RGB/YPbPr**, **DVI-D**, **AV-3** or **AV-3 S**.

“HD Ready”

“HD Ready” feature offers a well balanced approach which responds to viewers’ and broadcasters’ needs for certainty regarding interoperability with future HD receiver products.

Your TV has **“HD Ready” feature**, so it supports DVI (or HDMI using converter cable, not supplied) as a HD input format to allow full compatibility with HD video sources.

Connecting the PC via PC input

- Power off both computer and TV before making any connections.
- Connect the PC cable to the PC input of your TV and to the 15-pin connector on the rear of your computer.
- Tighten the screws on the plugs until the connectors are fastened securely.
- If you are using Windows operating system running on a PC with a Microsoft Plug&Play compatible video card, your system will select the appropriate timing for your monitor.

Connecting YPbPr (Component) via PC input

“HD Ready” enables YPbPr (component) connection via PC input.

- Use the supplied YPbPr-to-PC converter cable to connect YPbPr output of any device to PC input of your TV.

Connecting the PC via DVI (Digital Video Interface) input

To get the best possible picture quality you'll need to use the DVI sockets on both the TV and your PC. This allows the PC to send a pure digital signal straight from the graphics card to the TFT TV. As DVI-I type socket exists on your TV, use a DVI-D or DVI-I cable for connection.

- DDC (Display Data Channel) and EDID (Extended Display Identification Data), which are used for Plug&Play compatibility, are supported. Hot Plug Detection is not supported.
- Low refresh rates like 60Hz and 72Hz should be used and native resolution should be preferred.
- The DVI interface supports HDCP (High bandwidth Digital Content Protection), therefore a HDCP DVD player can be used.

How to connect HDMI via DVI input

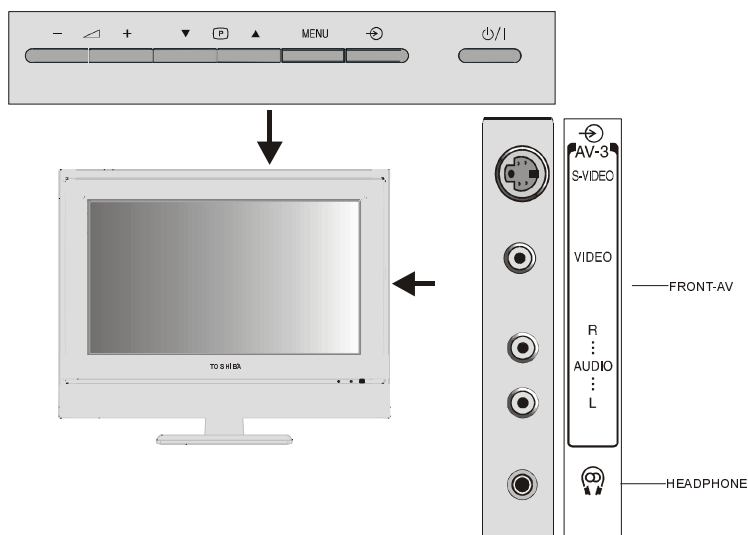
“HD Ready” enables HDMI connection via DVI input.

- Use an HDMI-to-DVI converter cable to connect HDMI to DVI input of your TV.

Connections and controls

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 **top** of the television may be used for some functions.



Switching on

If the power-on light is unlit press the **POWER** button at the rear side of the television to switch the television on, a **RED LED** will appear, then press a number, **▲P▼** or **⏻** on the remote control to see the screen. Then the LED will turn **GREEN**.

To put the television into Standby press **⏻** on the remote control; another **GREEN LED** appears briefly followed by **RED LED** when in standby.

To view the television press **⏻** again or any of the number buttons. The picture may take a few seconds to appear.

Using the remote control

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

In **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.

To use the options press the **▲** and **▼** button on the remote control to move up and down through them and **OK**, **<** or **>** 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

Using the control buttons on the top of the TV:

- To alter the volume press + **◀▶**.
- To alter the programme position press **▲P▼** on the top of the TV.
- Press **MENU** and + **◀▶** — and **▲P▼** to control the menu options.
- Press **MENU** to finish.

When connecting mono sound equipment to **AV-3 (FRONT-AV)**, connect the audio output of the equipment to the **L** or **R** socket on the television, then press **⏻I/II** to select Dual I for left mono or Dual II for right mono.

To select the Input, press **⏻** until the **AV-3** is highlighted in **source select** menu as described on page 26. The television will automatically sense the type of signal.

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

Please note: Inserting the headphone jack will mute the sound from all speakers.

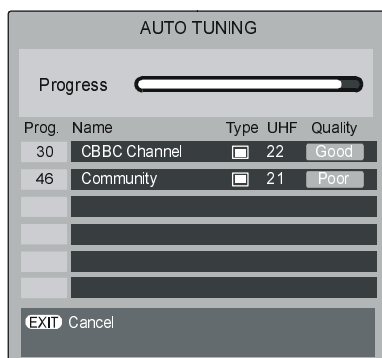
Digital Tuning, programme sorting

Before switching on the television put your decoder and media recorder to **Standby** if they are connected and ensure the aerial is connected. To set up the television use the buttons on the remote control as detailed on page 5.

- 1 Press the  button, the **Welcome** screen will appear. This screen will appear the first time that the television is switched on and each time the television is reset.

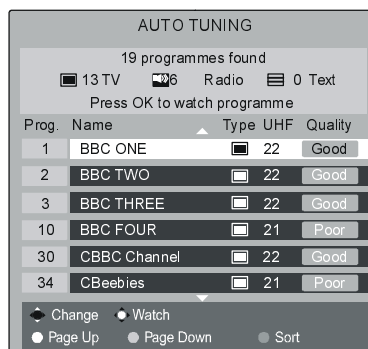


- 2 Press **OK** to start tuning.
- 3 The **Auto tuning** screen will appear and the television will start to search for available stations. The progress bar will move along the line.



You must allow the television to complete the search.

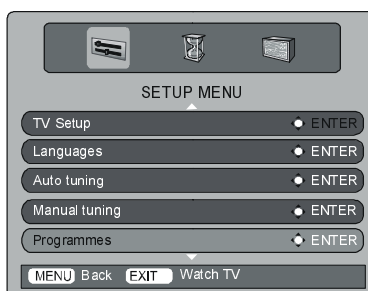
When the search is complete the Auto tuning screen will display the total number of services found.



- 4 Use  or  to move through the list to select a programme then press **OK** to view.

Programme sorting

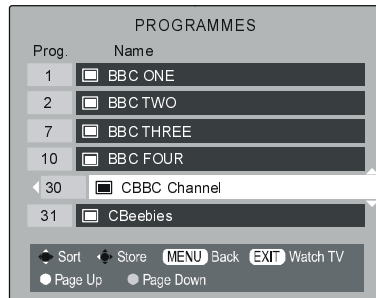
- 1 The station order may be changed, for instance if the picture is unclear or the signal is weak. Press **MENU**, the **SETUP MENU** will appear on the screen.
- 2 Use  to move down through the list and highlight **Programmes**. Press **OK**.



Digital programme sorting continued, auto tuning, manual tuning

- ③ With the list of stations now showing use **▼** or **▲** to highlight the station you want to move and press **>**.

The selected station will be moved to the right of the screen.



- ④ Use **▼** or **▲** to move through the list to your preferred position. As you do so the other stations will move to make room.

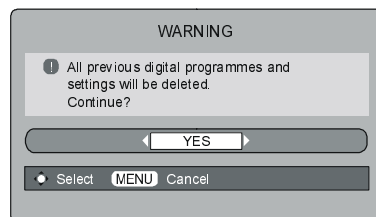
- ⑤ Press **<** to store your move.

Repeat as necessary, then press **EXIT**.

Auto tuning

Autotuning will completely re-tune the television. All current programmes and settings, i.e. favourites and locked programmes, will be lost.

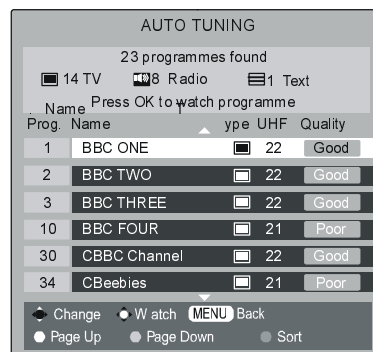
- ① Select the **SETUP MENU** and use **▼** to highlight the **Auto tuning**. Press **OK**.
- ② A screen will appear warning that previous digital programmes and settings will be deleted. Press **OK** to continue with the **Auto tuning**.



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.



The station order may be changed, for instance if the picture is unclear or the signal is weak, using **Programmes** as previously described.

Manual tuning

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

- ① Select **Manual Tuning** from the **SETUP MENU** and press **OK**.
- ② Enter the multiplex number using the number 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.

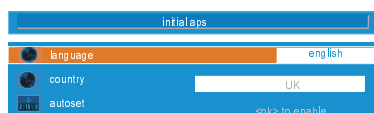
- ③ Repeat as necessary. Press **EXIT** to finish.

Analogue Tuning, programme sorting and manual tuning

The television can be tuned to all available **analogue** stations. Pressing **source select** will appear on the screen. Select **ATV** to put the television into **analogue** mode. To return to **digital** viewing select **DTV**, **DTV** will appear on the screen.

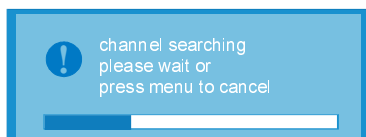
Note: When the television is switched off the mode being viewed at the time will automatically be selected when the television is switched back on.

- 1 Press **source select** to select analogue mode. The **initial aps** screen will appear the first time that the analogue mode is selected and each time the television is re-tuned.



please check the antenna cable
<EXIT> to cancel
right/left to change language

- 2 Use **✓** to highlight the "language" and "country" items. Press **<** or **>** to adjust the highlighted item.
- 3 Press **✓** to highlight **autoselect**, then press **OK** to start **initial aps**.
- 3 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.

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 **programme table** which will appear on the screen.

programme table		
01 CNN	11	21
02 RAI2	12	22
03 SAT	13	23
04 RAI3	14	24
05 TV5	15	25
06 ZDF	16	26
07 RAI1	17	27
08 C02	18	28
09 S07	19	29
10 C05	20	30
Delete	Insert	Name

- 4 With the list of stations now showing use **✓** or **^** to highlight the station you want to move and press the **GREEN** button.
- 5 Use **✓** or **^** to move through the list to the preferred position, as you do so the other stations will move to make room, then press the **GREEN** button again. The selected station will be moved to the new position.

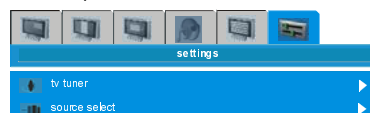
Repeat as necessary, then press **EXIT**.

If the television cannot be connected to a media recorder/decoder with a SCART lead or if a station on another **system** is required, a programme position can be manually tuned in.

Manual tuning

*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.*

- 1 Press **MENU** and using **>** select the last icon and press **✓** or **OK**.



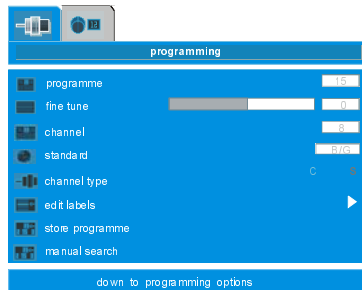
- 2 Use **✓** select **tv tuner**. Then press **OK**, to activate **tv tuner** menu. **programming** menu appears on the screen.



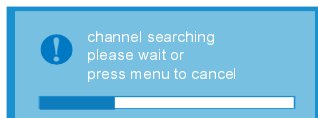
Manual tuning continued, fine tuning

The television can be tuned-in manually using **programming** in **settings** menu. 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**.

- ③ Using **▼** select **programme** then press **<** or **>** and key in the programme position to be tuned with the number buttons, we suggest *Programme 0* for a media recorder.



- ④ Use **▼** to select **manual search** then press **<** or **>** to search. The television will begin searching for channels.



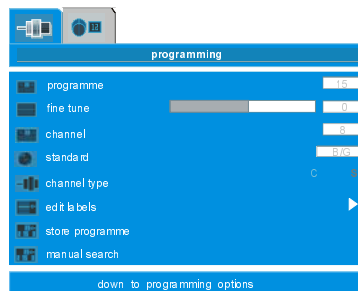
- ⑤ Each signal will show on the television, if it is not your media recorder press **<** or **>** to restart the search.
- ⑥ Use **▼** to select **store programme**, press **<** or **>** to store the programme. **programme stored** message will appear on the screen.

Repeat for each *programme position* to be tuned then press **EXIT** to finish.

Fine tuning

FINE TUNING should not be required unless there is interference or a weak signal.

- ① Select the programme position, press **MENU** and use **>** to select the last icon. Press **▼**, select **tv tuner**. Then press **OK** to activate **tv tuner** menu. **programming** menu appears on the screen.
- ② Using **▼** highlight the **fine tune**, and use **<** or **>** to adjust to get the best picture and sound.



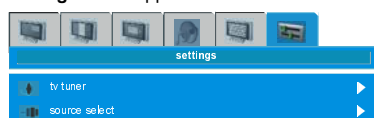
- ③ Use **▼** to select **store programme**, press **<** or **>** to store the selection. **programme stored** message will appear on the screen.

Analogue APS, choosing a language

APS (AUTOMATIC PROGRAMMING SYSTEM)

When the **APS (AUTOMATIC PROGRAMMING SYSTEM)** feature is selected all channels and settings will be lost, the television will return to factory settings and then re-tune.

- 1 Press **MENU** and using **>** select the last icon. **settings** menu appears on the screen.



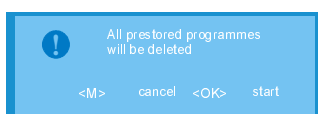
down for various system settings

- 2 Use **▼** to select **tv tuner** and then press **OK** button to activate **tv tuner**. Press **>** to display **aps** menu.

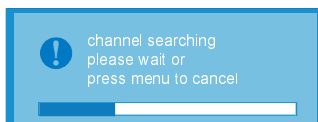


down to change aps options

- 3 Use **▼** to select **country** and press **< or >** to set country.
Press **▼** to highlight the **autoset** and **OK** to activate.



- 4 Press **MENU** to cancel **autoset** or **OK** to start.



You must allow the television to complete the search.

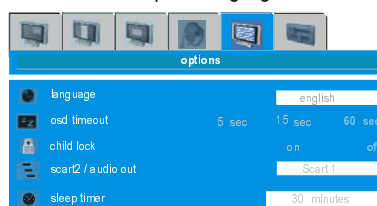
When the search is complete the television will automatically select programme position 1. This may not be a clear picture or the signal may be weak, so the station order can be changed using **programme table** which will appear on the screen.

- 5 Press **EXIT** to finish.

Choosing a language

The **LANGUAGE** feature allows the menus to be shown in a variety of languages.

- 1 Press **MENU** and using **>** select the fifth icon. **Options** is displayed on the screen.
- 2 Press **▼** to highlight **language**, then use **< or >** to select the required language.



down for various system options

- 3 Press **MENU** to return to the previous menu or press **EXIT** to return to the main picture.

General controls, time display, stereo/bilingual transmissions, child lock

Selecting programme positions

To select a programme position use the numbered buttons on the remote control.

Programme positions can also be selected using **P▲** and **P▼**.

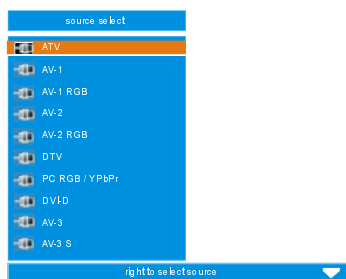
To display on-screen information i.e. programme position, subtitle, audio-track availability in **digital** mode press **⏏**. Press again to clear.

Pressing **⏏** in **analogue** mode programme table appears on the screen.

To revert to the previous programme position press **⏏**.

REMEMBER: To move between **digital** and **analogue** modes, press **⏏** till **DTV** is selected in **source select** for **digital**, press **⏏** repeatedly to select **ATV** for **analogue TV**.

✓ or **▲** buttons can be used to navigate through the sources in **source select**, too.



The Time Display - analogue only

The *time display facility* allows the *current (text service) time* to be seen on the television screen.

Press **⏏** whilst watching a normal television broadcast to see a time display from the broadcaster.

Stereo and Bilingual transmissions

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

Stereo... Press **⏏** to select **Stereo** or **Mono**.

Bilingual... Bilingual transmissions are rare. If they are transmitted the word **Dual** will display.

Choose the required programme number and if the word **Dual** appears press **⏏** to select **Dual 1**, **Dual 2** or **mono**.

In **digital** mode:

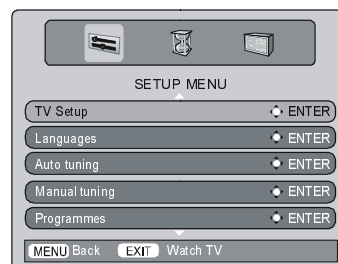
I/II appears during channel change and the **⏏** bar if the current programme has more than one audio track.

Press **⏏** to select between audio languages.

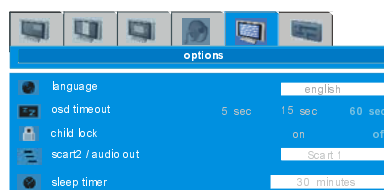
Child lock

CHILD LOCK disables the buttons on the top of the television. All buttons on the remote control can still be used.

- 1 If in digital mode, press **MENU**, using **✓** select **TV Setup** from the **SETUP MENU**, then press **OK**.



- 2 Analogue TV menus will appear on the screen. Press **>** to select the fifth icon. **options** will be displayed on the screen.



down for various system options

- 3 If in analogue mode, press **>** to select the fifth icon. Then **options** will be displayed. Press **✓** to choose **child lock** and press **<** or **>** to set it **on** or **off**.

When **CHILD LOCK** is selected, a reminder will appear when any of the panel buttons on the top of the television are pressed. Once the television has been switched off it can **ONLY** be brought out of standby using the remote control.

Sound controls — volume, sound mute, balance, wide sound, dynamic bass, AVL

All sound controls are available in both **digital** and **analogue** modes. To access the **audio** menu in **digital**: press **MENU** and using **▼** select **TV Setup**, press **>** to bring up the **audio** option. To access the **audio** menu in analogue: press **MENU** and using **>** select the **audio** menu.

Sound controls

Volume

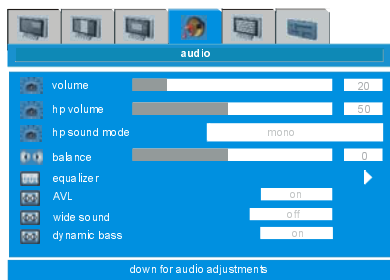
Press **▲+** or **▼-** on the remote control to adjust the volume.

In the **audio** menu use **<** or **>** to adjust the volume level while **volume** item is highlighted.

Sound Mute

Press **⏻** once to turn the sound off and again to cancel.

Sound balance



- ① Press **MENU**, main menu will appear. Then press **>** to display the fourth icon, **audio** menu will appear on the screen.
- ② Press **▼** to highlight **balance**. Press **<** to move balance leftward or press **>** to move balance rightward.

Wide sound

wide sound is used to gain saloon effect to the sound.

- ① In the **audio** menu use **▼** to highlight **wide sound** then press **<** or **>** to set **stereo**, **mono** or **off**.

dynamic bass

dynamic bass is used to increase bass effect of the TV set.

- ① In the **audio** menu use **▼** to highlight **dynamic bass** then press **<** or **>** to set **on** or **off**.

AVL - Auto Volume Limiter

AVL limits high volume levels and prevents the extreme changes in volume that can occur when channels are changed or a programme switches to a commercial.

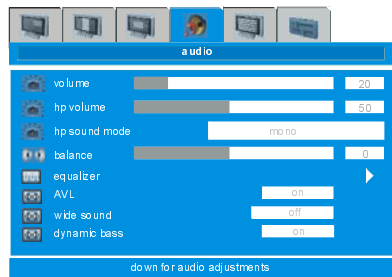
- ① In the **audio** menu press **▼** to highlight **AVL** and press **<** or **>** to set **on** or **off**.

Sound controls continued — equalizer, headphone

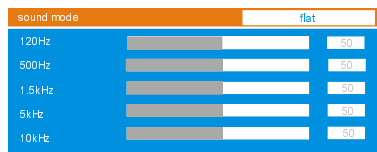
Equalizer

The **EQUALIZER** feature has a number of sound settings to select from; **user**, **flat**, **pop**, **rock**, **jazz** or **classic**. These settings are all preset and cannot be altered. The **user** setting can be altered and stored to suit personal preference.

- 1 Select the **audio** option from the main menu.



- 2 In the **audio** menu, use **▼** to highlight **equalizer** then press **< or >** to select.

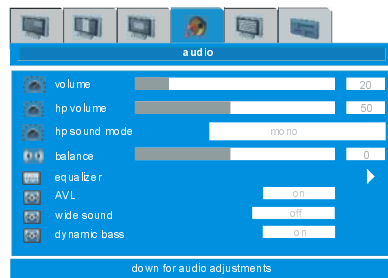


- 3 Then **sound mode** is selected, press **< or >** to select **user**.
- 4 Using **▼** or **▲** select a frequency and then **< or >** to adjust to suit personal taste.

Headphone

The **hp volume** and **hp sound mode** features allow you to alter the sound from headphones when connected to the socket on the side of the television.

- 1 Select the **audio** option from the main menu.



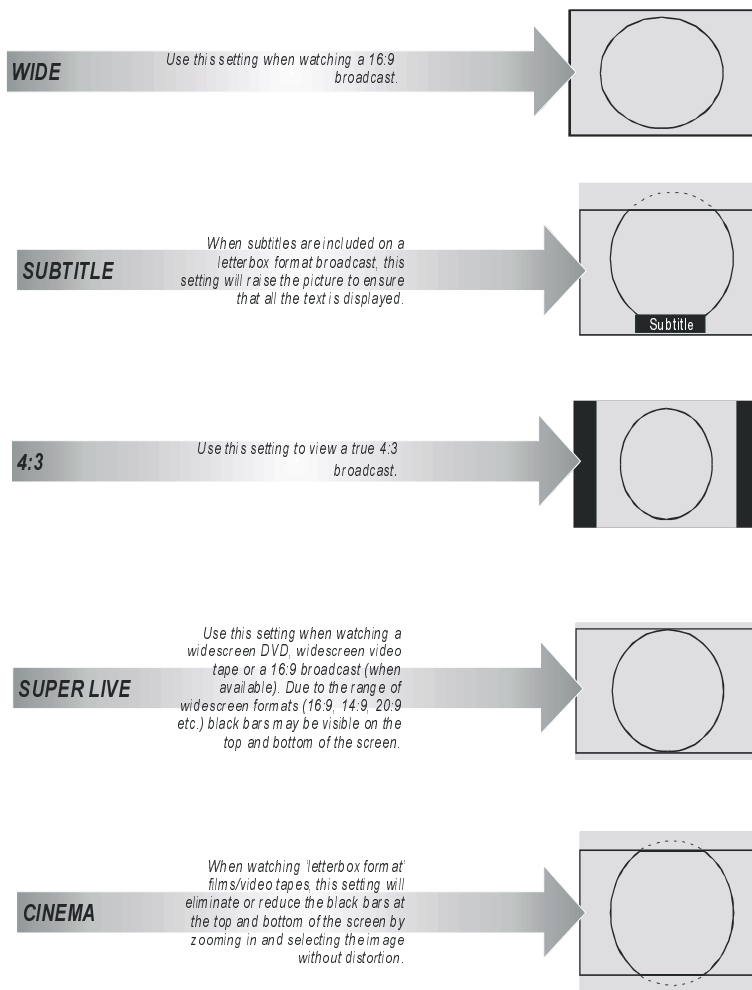
- 2 Use **▼** to highlight **hp volume** or **hp sound mode** and then **< or >** to adjust to suit personal taste.
- 3 Press **MENU** to return to the previous menu or press **EXIT** to return to the main picture.

Picture format

Depending on the type of broadcast being transmitted, programmes can be viewed in a number of formats.

Press the  button repeatedly to select between **Auto**, **Wide**, **Subtitle**, **4:3**, **Super Live** or **Cinema**.

When **Auto** is selected the format being displayed is determined by the picture being broadcast.



Using the special functions to change the size of the displayed image (i.e. changing the height/width ratio) for the purposes of public display or commercial gain may infringe on copyright laws.

Picture controls — picture mode, black stretch, tint

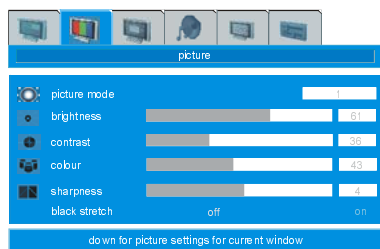
The picture controls are available in both **digital** and **analogue** modes. To access the **picture** menu in **digital**: press **MENU** and using **▼** select **TV setup**, press **OK** to bring up the **picture** option, press **>** to select. To access the **picture** menu in **analogue**: press **MENU** and using **>** select the **picture** option.

Picture mode

This television offers the choice of personalising the picture style. Press **→|←** to view the different styles available:

PICTURE MODE 1 to 3 are preset options and **PICTURE MODE M** stores your own settings:

- 1 Select the **picture** option from the main menu.



- 2 Using **▼** or **▲** to select **Picture mode**, **Brightness**, **Contrast**, **Colour** or **Sharpness**, then press **<** or **>** to adjust to suit personal taste.

Black stretch

Black stretch increases the strength of dark areas of the picture which improves the definition.

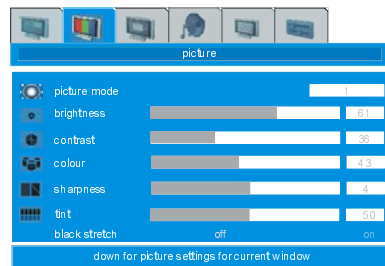
- 1 In picture menu press **▼** until **black stretch** is highlighted.
- 2 Press **<** or **>** to set **black stretch on** or **off**.

Black stretch feature is not available for the PC, RGB and DVI modes.

tint

This item is displayed in the picture menu when the TV is in AV mode and with a NTSC signal.

- 1 In the **picture** menu press **▼** until **tint** is highlighted.
- 2 Press **<** or **>** to adjust **tint** to suit your preference.

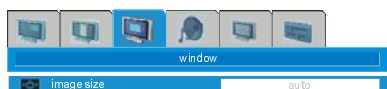


Picture controls continued — screen format, VCR mode, full screen-pip-split screen, still picture

image size

The **image size** feature allows programmes to be viewed in a number of formats depending on the type of broadcast being transmitted.

- 1 In the **window** menu, press **▼** until **image size** is highlighted.
- 2 Press **<** or **>** to select between **auto**, **wide**, **subtitle**, **4:3**, **superlive** or **cinema**. For more detailed information see page 16.



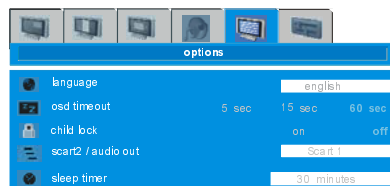
down for size setting

VCR Mode

This item is displayed only when TV is in AV mode. If you connect peripherals like video recorder or decoder to your TV and the device connected has no SCART connector, you can connect it via antenna input.

If the VCR is connected via antenna input, it is suggested to use the programme 0.

- 1 Press **<** or **>** to set **vcr** to **on** or **off**.

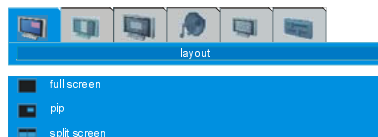


down for various system options

Full screen, picture-in-picture (pip), picture-and-picture (split screen)

Press **>** to select the first icon, then the **Layout** menu will appear on the screen.

- 1 Press **▼** to select **full screen**, **pip** or **split screen**.

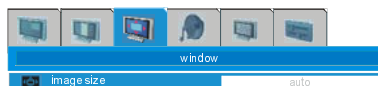


down for current screen layout options

Switching between **full screen**, **pip** and **split screen** modes can take several moments.

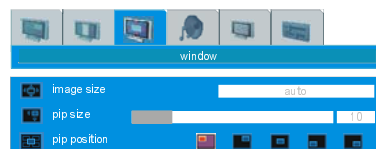
- 2 **Window** menu changes due to the selected option in **layout** menu.

If **full screen** is selected, then window menu is as below:



down for size setting

If **pip** is selected, then window menu is as below:



down for size setting

pip size and **pip position** items are used for setting window size and position on the screen.

If **split screen** is selected, then **window** menu is not available.

Still Picture

The **Still Picture** feature allows an image to be held on the screen.

- 1 Pressing **☑** button will hold the picture on the screen. Press **☑** button again to cancel.

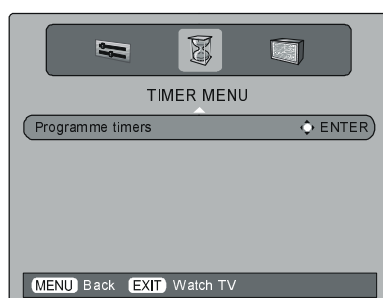
Timers

Remember: When viewing in **digital** mode if **analogue** is required press , **source select** appears on the screen and select **ATV**. To return to **digital** viewing, select **DTV** in **source select**.

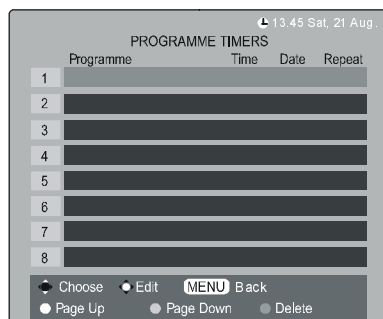
Programme timers - digital

This feature sets the television timers to record programmes. The **"Repeat"** feature can be set to record "daily" and "weekly" to ensure a series of programmes are recorded.

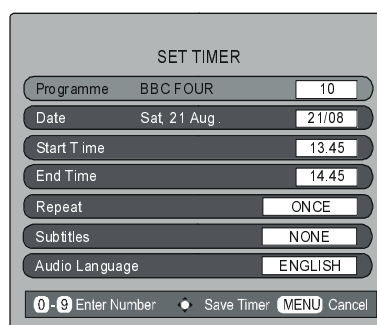
- 1 Press **MENU** and **<** or **>** to select the **TIMER MENU**.



- 2 Press **✓** to select **Programme Timers**, then press **OK** to select. Your TV must be on or in standby mode when a programme timer is due to start.



- 3 Press **✓** to select the first programme to be recorded, then press **OK**. The **SET TIMER** menu will now appear.
- 4 Press **▲** or **▼** to go through the list adding the details of the programme to be recorded by using the number buttons and **<** or **>** to make selections.



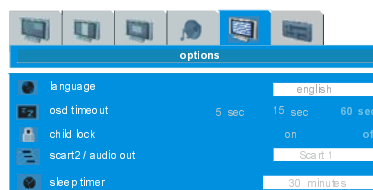
- 5 When all the details have been entered press **OK** to save the timer.

Please Note: When a timed programme is about to start recording, an information screen will appear, the television will then change automatically to the required channel. Cancelling this will also cancel the recording.

Sleep timer - analogue

The television can be set to turn itself **OFF** after a certain time.

- 1 Press **MENU** and **>** to select the **options** menu.
- 2 Use **✓** to select **sleep timer**.
- 3 To set the number of minutes in which the television will turn off press **<** or **>**. This will increase or decrease in steps of 10 minutes.



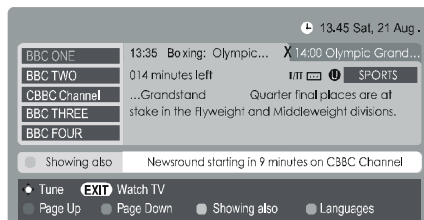
down for various system options

Digital Programme Guide and on-screen information

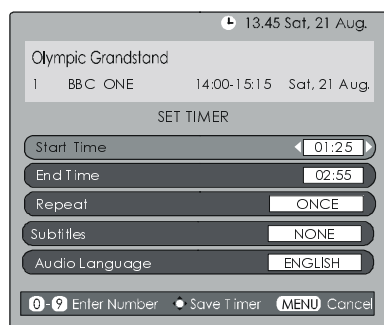
When viewing in digital mode the on-screen information and guide give access to programme details for all available channels. Recording can also be set from **both** the information screen and guide.

Information

- 1 Select information by pressing **[i+]**, the information screen will appear giving details of the channel and programme currently being viewed.



- 2 To see details of any of the other channels currently available, press **V** or **Λ** to scroll up/down the list. As the channel is selected details of the programme currently being broadcast will appear.
- 3 Pressing the **YELLOW** button will activate Showing also, giving details of the programmes which have or are due to start on other channels.
- 4 To record the following programme, with the information guide showing, press **>**. The Tune option at the bottom of the screen will change to Record, press **OK**. The SET TIMER screen will appear.



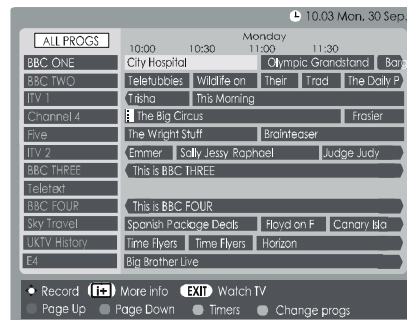
- 5 Press **V** or **Λ** to go through the list adding details of the programme to be recorded by using

the number buttons and **<** or **>** to make selections. Press **OK** to save.

Guide

- 1 Select the on-screen guide by pressing **GUIDE**, the guide screen will appear highlighting details of the channel and programme currently being viewed.

This may take a few moments to appear.



- 2 Press **<** or **>** for information of other programmes scheduled for the channel selected.
- 3 For details of other channels currently available, press **V** or **Λ** to scroll up and down the channel list. As the channel is selected details of the programme currently being broadcast will appear, then press **<** or **>**.
- 4 Press the **[i+]** button for more information about the currently highlighted programme.

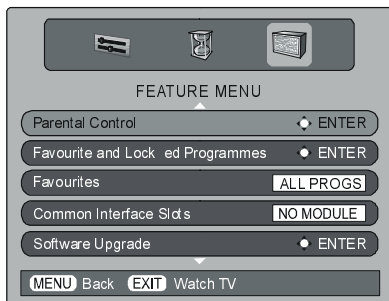
Digital parental controls - setting the pin, mode

There are a number of parental controls which can block specific channels being viewed, and which can only be accessed with a security PIN code when in digital mode.

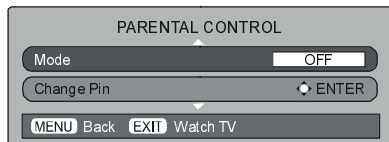
Once you've entered the PIN code once, you do not need to enter it again until next time you power-on TV. To restore PIN code entry again (e.g. for parental controls on locked programmes) press STANDBY twice.

Setting the PIN

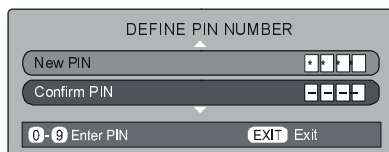
- 1 Press **MENU** and Right to select **FEATURE MENU**.



- 2 Use **v** to select **Parental Control** then press **OK**.
- 3 Press **v** to highlight **Change Pin** then press **OK**.



- 4 Using the number buttons enter a four digit number, when these have been entered the screen will ask you to confirm them by entering them again.

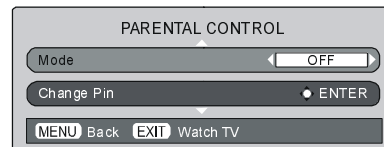


- 5 Press **MENU** to go back to the Parental Control screen. The PIN number is now set.

Mode

This feature locks various menus to prevent the television being retuned or the settings being overridden.

- 1 In the **PARENTAL CONTROL** menu press **v** to select **Mode**.



- 2 Use **<** or **>** to choose between **ON**, **OFF**, **LOCK MENU** and **LOCK INSTALL**.

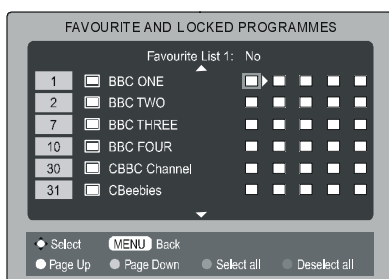
When menus that have been locked are now selected they will only become available when the PIN is entered.

Digital settings - favourite programmes, locked programmes, encrypted programmes

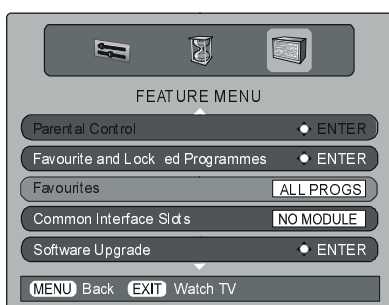
Selecting Favourite Programmes

Favourite Programmes creates a list of the digital channels that are watched most. Four lists can be created, this can be a mixture of television, text and radio channels.

- 1 From the **FEATURE MENU** press Down to select **Favourite and Locked Programmes**.



- 2 Use **V** or **Λ** to go through the list of channels pressing **OK** to select the ones required, a tick will appear in the box.
- 3 Press **>** to select List 2. Follow the same procedure to make the selection. When all favourites have been selected press **MENU** to return to the **FEATURE MENU**.
- 4 Using **V** to highlight **Favourites** and **<** or **>** to select between **TV**, **FAV-1**, **FAV-2**, **FAV-3**, **FAV-4**, **ALL PROGS**. The number of favourites available depends on how many lists have been created.



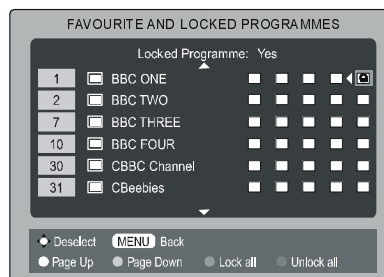
- 5 Press **EXIT**.

Using the **▲P▼** buttons will only access those channels in **Favourite List 1** when **FAV-1** is selected.

Locking Programmes

Locked programmes stops the viewing of selected **digital** channels, which can only be accessed by entering the **PIN**.

- 1 From the **FEATURE MENU** press **V** to select **Favourite and Locked Programmes**.
- 2 Press **>** repeatedly to select the **Locked Programme** list.
- 3 Use **V** or **Λ** to go through the list of channels pressing **OK** to select the required, a padlock will appear in the box.



- 4 Press **EXIT** to finish.
- 5 When any of the channels in the **Locked Programme** list are now selected the **PIN** must be entered before they can be accessed.

Encrypted Programmes

Selecting **Encrypted Programmes** allows all encrypted programmes to be shown in the programme list even if they are not available to select.

- 1 In the **FEATURE MENU** press Up or Down to select **Encrypted Programmes**.
- 2 Use **<** or **>** to select **ON** or **OFF**.

Digital settings continued - audio languages, subtitles, reset tv, common interface

Audio Languages

This feature allows a programme or film to be viewed with a choice of soundtrack language, provided they are currently being broadcast.

- 1 From the **SETUP MENU** press **V** to select **Languages**.



- 2 Press **OK**, then **V** or **Λ** to highlight the **Audio Language**.
- 3 Use **<** or **>** to select **ENGLISH**, **WELSH** or **GAELIC**.



Note: If more than one soundtrack is available, use **⏮**/**⏭** to select between them.

Subtitles

This feature will show subtitles on the bottom of the screen in the selected language provided they are being broadcast.

- 1 From the **LANGUAGES** menu press **V** to select **Subtitles**.
- 2 Use **V** or **Λ** to select **OFF**, **ENGLISH**, **WELSH** or **GAELIC**.

Reset TV

Selecting **Reset TV** will delete all stored **digital** channels and settings. The television will return to factory settings and then auto tune.

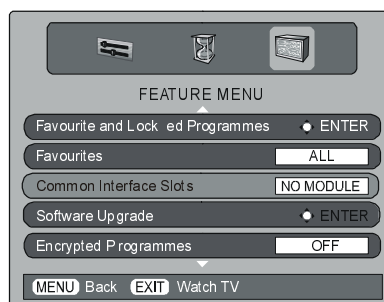
- 1 Press **MENU** and then press **V** until **Reset TV** is highlighted.
- 2 Press **OK** to select. A screen will appear warning that all digital settings will be lost, press **OK** to continue.

The welcome screen will appear, press **OK** to continue, the television will then auto tune.

Common Interface

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

- 1 Insert the **CAM** and card into the **Common Interface slot**, following the instructions provided with the **CAM**. A box will appear on screen to confirm that the **CAM** is loaded.
- 2 From the **FEATURE MENU** press **V** or **Λ** to select **Common Interface Slots**.



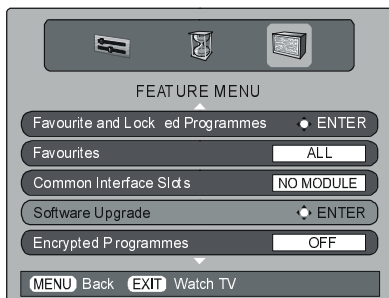
- 3 Details of the **CAM** should now be available. Use **OK** to select it. If the two **CAMs** are inserted use **<** or **>** to select between the two.

Digital settings continued - version, auto upgrade and searching for new software

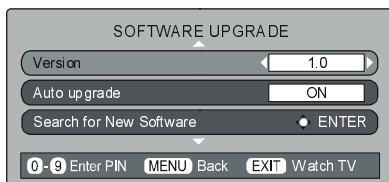
Version

This feature can be used to check the version of software currently installed.

- 1 From the **FEATURE MENU** press **V** to select **Software Upgrade**.



- 2 Press **V** or **Λ** to select **Version**. Use **<** or **>** to select. When the software has been updated there will be a choice of two versions available.



Auto Upgrade

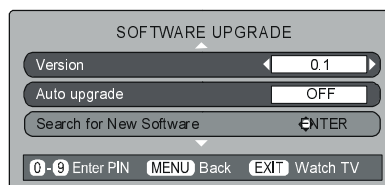
If **Auto upgrade** is selected the software will automatically update as each version becomes available, provided the television is on or in standby. If the television is on, a screen prompt will appear showing the software download taking place.

- 1 From the **SOFTWARE UPGRADE** menu press **V** to select **Auto Upgrade**.
- 2 Use **<** or **>** to select **ON** or **OFF**.

Searching for new software

If preferred, software upgrades can be searched for manually using **Search For New Software**.

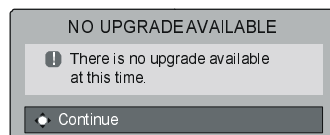
- 1 In the **SOFTWARE UPGRADE** menu press **V** or **Λ** to select **Search For New Software**.



- 2 Press **OK**. The television will automatically start searching for a software upgrade, the progress bar will move along the line.



If an upgrade is found the television will automatically start downloading, if not a screen will appear stating that an upgrade is unavailable.



This can take several minutes.

Input selection, AV connections and analogue switch-off

Settings for the INPUT and OUTPUT sockets so that the television recognises connected equipment. See page 6 for a clear view of the back connection recommendations.

*Most media recorders and decoders send a signal through the scart lead to switch the television to the correct Input socket. Alternatively press the external source selection button  until the desired source is selected in **source select**.*

Input selection

Use the Input Selection if the television does not switch over automatically.

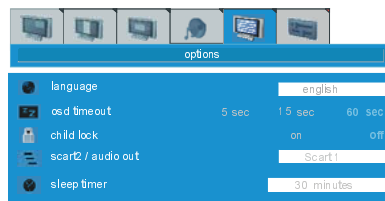
- 1 Press  to select **ATV, AV-1, AV-1 RGB, AV-2, AV-2 RGB, DTV, PC RGB / YPbPr, DVI-D, AV-3 or AV-3 S**.

To return to television mode press  again.

OUTPUT signal selection for AV-2 (Scart 2)

This enables selection of the source to output from AV-2. For example, to record transmissions in stereo from a stereo decoder - connect a stereo decoder to **AV-1** and stereo media recorder to AV-2, then select **AV-1** as the **scart2 / audio out**. The signal received through SCART 1 will output directly through SCART 2.

- 1 From the **options** menu, press **v** to select **scart2 / audio out**.



down for various system options

- 2 Use **<** or **>** to change **scart2 / audio out** option to:

ATV = The last television programme selection.

AV-1 = The picture from equipment connected to **AV-1**.

DTV = The programme selection from the digital mode.

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 (see **Auto tuning** page).

PC input typical display modes

The display has a maximum resolution of 1280 x 720, vertical sync. frequency range of 50-75 Hz and a horizontal sync. frequency range of 30-69 KHz.

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

Mode	Resolution		Frequency	
	Horizontal	Vertical	Hor. (kHz)	Ver. (Hz)
1	640	400	31.5	70
2	640	480	31.5	60
3	640	480	37.9	72
4	640	480	37.5	75
5	720	400	31.5	70
6	800	600	35.2	56
7	800	600	37.9	60
8	800	600	48.1	72
9	800	600	46.9	75
10	1024	768	48.4	60
11	1024	768	56.5	70
12	1024	768	60.0	75
13	1280	720	44.8	60

The native resolution of the TFT-LCD Panel is 1280 x 720. Therefore using Mode 13 is advised to get the best PC input display quality.

When YPbPr (Component) is connected via PC input, the PC Resolution is as below:

Interlaced		Freq (Hz)
1280	720i	50
1280	720i	60
Progressive		
1920	1080i	50
1920	1080i	60

Digital text and interactive services

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 coloured buttons on the remote control and Up, Down, Left and Right make navigating pages and pull-down menus quick and easy.

Using Digital interactive services

Most channels that offer interactive services will show a prompt, for example, "Press RED".

- ❶ To access digital interactive services press the TEXT or RED button. It may take a few seconds to load.
- ❷ Using Up or Down highlight the required subject and press OK.
Use the coloured buttons as instructed.
- ❸ To return to normal viewing press TEXT.

Analogue text

The Text button:

To view text services press  . Pressing again will split the screen in two with the television picture on one side and text on the other. 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 **P▲** to advance to the next page and **P▼** 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.

Analogue text continued — control buttons

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



To display an initial page:

Press / to access an initial page. The one displayed is dependant on the broadcaster.



To display a sub-page of a text page:

If a text page has sub-pages, press and enter the subpage number using the numbered buttons.

After subpage numbers appears on text page, press left or right buttons to display the subpages.



To reveal concealed text:

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



To hold a wanted page:

At times it is convenient to hold a page of text.

Press and **HOLD** will appear in the top left of the screen. The page will be held on screen until the button is pressed again.



To enlarge the text display size:

Press 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.



To select a page whilst viewing a normal page:

Enter the page number then press / , a normal picture will be displayed. The television will indicate when the page is present by displaying the page number at the top of the screen. Press / to view the page.

To display news flashes:

Select the news flash page for the chosen text service (see the index page of text service). Press

/ . The news flashes will be displayed as and when they are broadcast. Press / again to cancel the display.

The news flash page must be cancelled before changing programmes.

Note: Volume level cannot be adjusted in Teletext mode.



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?

A Check the mains switch is on and check all connections.
Check the television is not in standby mode.

Q Why is there a picture but no sound?

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

Q What can cause a poor analogue picture?

A Interference or a weak signal. Try a different television station. **FINE TUNING** may help.

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

A Make sure the VCR or DVD player is connected to the television as shown on page 6, then select the correct input by pressing .

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

A Check the correct **input** has been chosen, **S-VIDEO** or **AV**. See **AV connections**.

Q Why is there a good video picture but no sound?

A Check the SCART lead connection.

Q Why doesn't the remote control work?

A Check the side switch on the remote control is in TV mode.
Check the batteries aren't dead or inserted incorrectly.

Q Why is the DTV main menu unavailable?

A **Analogue** mode is selected. Press to select **DTV**.

Q Why don't the controls on the top of the television work?

A Check that **CHILD LOCK** is not selected.

Q Why is there a message permanently on the screen?

A Remove it by pressing .

Q Why is the channel locked?

A The channel has been selected in **Locked Programmes**. See *Digital Settings* pages.

Q Why are the menus locked?

A **LOCK MENU** is selected. See *Parental Controls* page.

Q Why are some of the digital channels unavailable?

A Your subscription needs upgrading. Contact your service provider.

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

A Subtitles are not currently being transmitted by the broadcaster.

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

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

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

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

Questions and Answers

Q

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

A

Use the Master PIN code of 1276, then change to a number of your choice. Ensure that no-one else can use the Master PIN by removing the Owner's Manual.

Q

Why is there no digital text service?

A

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

Q

Why are there problems with analogue text?

A

Good performance of 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 text service and look for the *User Guide*. This will explain the basic operation of text in some detail. If further information is needed on how to use text see the text section.

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.

The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.





Notes

For your own records





Notes

For your own records



Specifications and accessories

Broadcast Systems / Channels				Programme Positions		Analogue programmes 100	
PAL-I	UHF UK21-UK69					Digital Programmes	500
PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41			Stereo		Nicam, German 2 carrier system	
SECAM-L	UHF F21-F69 VHF F1-F10, B-Q			Visible Screen Size (approx.)		60cm (H)	33cm (V)
SECAM-D/K	UHF R21-R69 VHF R1-R12			Display		16:9	
Video Input	PAL, SECAM, NTSC 3.58/4.43			Screen Resolution		1280x720	
				Sound Output (at 10% distortion)		Main 8W + 8W	
External Connections				Power Consumption			
AV-1	Input	21-pin Scart	RGB, A/V	as specified in EN60107-1: 1997		140W	
AV-2	Input/Output	21-pin Scart	RGB, A/V	Standby (approx.)		<3W	
DVI	Input	High Definition 1080i		Dimensions			
FRONT-AV	Input (side)	4-pin RCA jack RCA jacks	S-video Video - composite Audio L+R	(approx.)	58cm (H)	71 cm(W)	26 cm(D)
VGA Connection				Weight (approx.)		14.4 Kg	
Component Input (YPbPr) via VGA				Headphone Socket		3.5mm stereo	
Common Interface - Two Modules				Accessories		Remote control 2 batteries (AAA, IEC R03 1.5V) Component (YPbPr) cable "P" Clip Fixing	