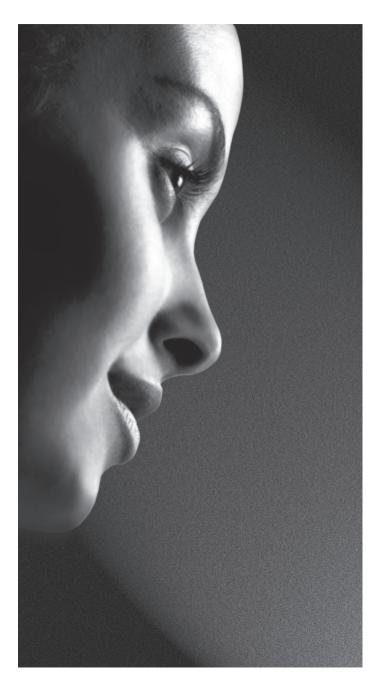
TOSHIBA Leading Innovation >>>



TL83* Digital Series



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English

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. Place in a location where the temperature remains between 5°C min. and 35°C max.

Mains Supply

The mains supply required for this equipment is 220-240v AC 50/60Hz. Never connect to a DC supply or any other power source. DO ensure that the television is not standing on the mains lead. Use only the supplied 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. 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.

WARNING: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See page 5.

DO be careful with glass panels or doors on equipment.

DO NOT REMOVE ANY FIXED COVERS AS THIS WILL EXPOSE DANGEROUS AND 'LIVE' PARTS.

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

Do not

DO NOT 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.

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

DO NOT 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.



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

DONOT use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturer's approved stand, bracket or legs with the fixings provided according to the instructions.

DO NOT 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, and make sure your family knows how to do this. Special arrangements may need to be made for people with disabilities.

DO NOT 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 and cabinet back, or push anything into holes, slots or any other openings in the case. These actions will damage screen or internal parts.

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

Installation and important information

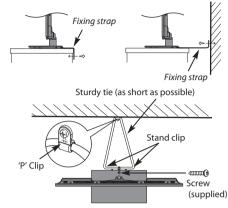
Where to install

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 the TV on a stable, level surface that can support the weight of the TV. In order to prevent injury and maintain stability of this apparatus, secure the TV to the level surface using the strap if fitted, or to a wall using a sturdy tie to the P clips provided. Otherwise secure the TV on the level surface using the supplied mounting screw.

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.



Stand style is dependent on model

Cleaning the screen and cabinet...

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

When using a Wall Bracket

Please use a wall bracket appropriate for the size and weight of the LCD TV.

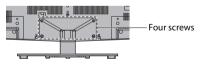
- Two people are required for installation.
- To install a wall-mount from another manufacturer, use the **SPACERS** (supplied).
- Unplug and remove any cables and/or other component connectors from the rear of the TV.
- 2 Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket.
- 3 Follow the instructions provided with your wall bracket. Before proceeding, make sure the appropriate bracket(s) are attached to the wall and the back of the TV as described in the instructions provided with the wall bracket.
- **4** Make sure to place the spacers supplied between the bracket and the back of the TV.
- **5** Always use the screws supplied or recommended by the wall mount manufacturer.

Removing the Pedestal Stand:

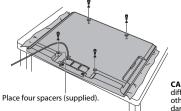
 Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket. Leave the stand protruding over the edge of the surface.

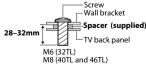
NOTE: Extreme care should always be used when removing the pedestal stand to avoid damage to the LCD panel.

2 Remove the four screws.



3 Once you have removed all four screws holding the pedestal stand in place, remove the pedestal stand from the TV by sliding the pedestal stand away from the TV.





CAUTION: The diameter and length of the screws differ depending on wall bracket model. Use of screws other than the screws specified may result in internal damage to the TV set or cause it to fall, etc.

5

When using the 3D glasses (not supplied)

Cautions on watching 3D images

 Some viewers may experience a seizure or blackout when exposed to certain flashing images or lights contained in certain 3D television pictures or video games.

Anyone who has had a seizure, loss of awareness, or other symptoms linked to an epileptic condition, or has a family history of epilepsy, should contact a health care provider before using the 3D function.

- Avoid use of the 3D function when under the influence of alcohol.
- If you are ill or feel ill, you should refrain from viewing 3D images, and consult your health care provider as may be appropriate.
- If you experience any of the following symptoms when viewing 3D video images, stop viewing and contact your health care provider:

Convulsions, eye or muscle twitching, loss of awareness, altered vision, involuntary movements, disorientation, eye strain, nausea/vomiting, dizziness, headaches.

- If you feel eye fatigue or other discomfort from viewing 3D video images, remove the 3D glasses and discontinue use until the condition is eliminated.
- Viewing in 3D may cause dizziness and/or disorientation for some viewers.

Therefore, to avoid injury do not place your TV near open stairwells, balconies, or wires.

Also do not sit near objects that could be broken if accidentally hit.

• When viewing 3D images, always wear 3D glasses. Watching 3D images without 3D glasses may cause eye strain.

Use specified 3D glasses.

• When watching 3D images, do not wear 3D glasses at an angle and do not lie down.

If you watch while lying down or with the glasses tilted, the 3D effect is lost and it may cause eye strain.

- It is recommended that the viewer's eyes and 3D glasses are level with the screen.
- If you have prescription eye glasses or contact lenses, wear the 3D glasses over them.

Watching 3D images without appropriate eyewear may cause eye strain.

 If 3D images often appear in double or if you cannot see the images in 3D, stop viewing.

Continuous viewing may cause eye strain.

• Due to the possible impact on vision development, viewers of 3D video images should be age 6 or above.

Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised to avoid prolonged viewing without rest.

• Watching TV while sitting too close to the screen for an extended period of time may cause eye strain.

The ideal viewing distance should be at least three times the screen height.

Notes on IR communication

- Do not block the IR sensor for 3D glasses on the TV by placing objects in front of it.
- Do not cover the IR sensor on the 3D glasses with stickers or labels.
- Keep the IR sensor on the 3D glasses clean.
- The use of 3D glasses could interfere with other IR communication devices. Other IR communication devices may cause the 3D glasses not to work correctly. Use the TV and 3D glasses in a place where they will not interfere with other devices or products.

Notes on watching the TV

- 3D effect and image quality may vary depending upon content quality and display device capability/ functionality/settings.
- If you use any device, such as a mobile phone or mobile wireless device, near the 3D glasses, the 3D glasses may not work correctly.
- Use the product in the following temperature range; otherwise, the quality of the 3D image or the reliability of the product cannot be guaranteed.

- 3D glasses: 0°C - 40°C (32°F - 104°F)

- TV: 0°C - 35°C (32°F - 95°F)

- If you use a fluorescent light, it may flicker depending on the frequency of the light. In this case, reduce the brightness of the fluorescent light, or use another light. (It is not recommended to watch the TV in a dark room, especially for children.)
- Wear the 3D glasses properly, otherwise you may not see the correct 3D image.
- When not viewing 3D images on this unit, take off the 3D glasses; otherwise, it may be difficult to see the display on other products such as PC, digital clock or calculator, etc.

About the connecting cable

 Use a high-speed and high-quality HDMI cable when you connect a device such as 3D compatible BD player or PC to the TV. When you use a standard HDMI cable, 3D images may not be shown.

If the 3D PIN number has been forgotten:

Use the Master PIN code of 1276, and then change to a number of your choice. Select **3D PIN** from the **PREFERENCES / 3D Setup** menu to enter PIN.

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 (e.g.: Super Live) will prevent permanent retention.

EXCLUSION CLAUSE

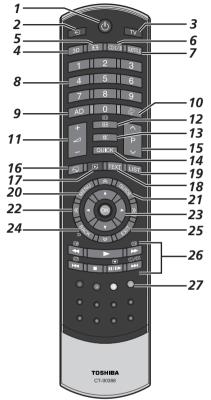
Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

- 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.

The remote control

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



- 1 For On/Standby mode
- 2 To select external input sources
- 3 To select TV Mode
- 4 To switch between 2D and 3D modes
- 5 Widescreen viewing
- 6 OI/I Stereo/bilingual transmissions
- 7 Digital Subtitles
- 8 Number buttons
- 9 Switch the Audio Description On/Off
- 10 To return to previous channel
- 11 To alter the TV volume
- 12 To display on-screen information To access the index page in Text mode
- 13 To mute the TV sound
- 14 To access Quick Menu
- **15** To change programme positions To change TEXT pages

- 16 To access the "TOSHIBA PLACES" Top Page When network is not connected, an error message will be displayed.
- 17 To access Media Player Menu
- 18 To call up text services
- 19 To access the analogue or digital Channel List
- 20 On-screen Menus
- 21 To display the digital on-screen Programme Guide
- 22 🙈 💥 🗶 🚿 To page up, down, left or right
- 23 When using menus, the arrows move the cursor on the screen up, down, left or right. Press **OK** to confirm your selection
- 24 To return to previous Menu
- 25 To exit menus

26 When in TV mode: ♥ Picture still ④/ミ Analogue time display	When in Text mode: ■? To reveal concealed text ■? To hold a wanted page ■? To enlarge text display size (?)/EX To the program erase the text screen
When using Programme Guide: I← -24 hours +24 hours +1 page +1 page	During Playback: To PLAY To STOP IMID To PAUSE/STEP To SKIP-BACK To REWIND To SKIP-FORWARD → To SKIP-FORWARD

27 Colour buttons: Text and interactive service control buttons

Inserting batteries and effective range



Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the proper way. Suitable battery types for this remote are AA, IEC R6 1.5V.

Do not combine a used, old battery with a new one or mix

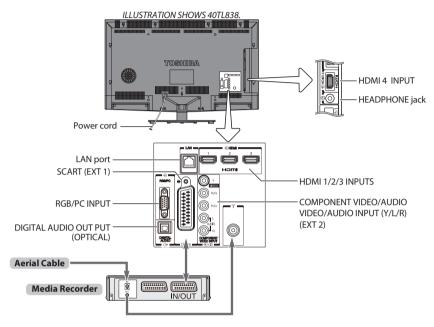
battery types. Remove dead batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 64 of this manual.

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.

Connecting external equipment

Before connecting any external equipment, turn off all main power switches. If there is no switch, remove the mains plug from the wall socket.



COO P

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.

Before running **Auto Tuning**, put your decoder and media recorder to **Standby**.

The phono sockets alongside the **COMPONENT VIDEO INPUT** sockets will accept L and R audio signals.

When connecting the VIDEO/AUDIO devices, connect those cables to $\ensuremath{\textbf{Y/L/R}}$ sockets.

The Digital Audio Output socket enables the connection of a suitable surround sound system.

NOTE: This output is always active.

HDMI® (High-Definition Multimedia Interface) is for use with a DVD decoder or electrical equipment with digital audio and video output. For acceptable video or PC signal formats through the HDMI terminals, see page 66.

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

LAN port is used to connect the TV to your home network. This TV can play digital content stored on a DLNA CERTIFIED™ product with server function.

A wide variety of external equipment can be connected to the back of 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 D/ \odot to select between DTV, EXT 1, EXT 2, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC or ATV.

When the external input mode is selected while viewing DTV mode, the SCART socket does not output video/audio signals.

English

The HDMI input on your television receives digital audio and uncompressed digital video from an HDMI 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 consumer electronic devices (such as a set-top box or DVD player with HDMI output). For acceptable video signal formats, see page 66.

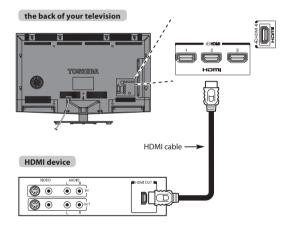
NOTE: Supported Audio format: Linear PCM, Dolby Digital (AC-3), sampling rate 32/44.1/48kHz.

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 model.
- HDMI cable transfers both video and audio. Separate analogue audio cables are not required (see illustration).



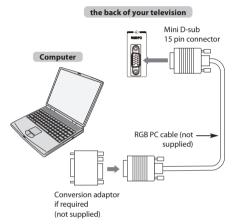
To view the HDMI device video, press the 🕤 button to select HDMI 1, HDMI 2, HDMI 3 or HDMI 4 mode.

Connecting a computer

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

To connect a PC to the RGB/PC terminal

When connecting a PC to the RGB/PC terminal on the television, use an analogue RGB (15-pin) computer cable.



To use a PC, set the monitor output resolution on the PC before connecting it to the television. For acceptable PC signal formats, see page 65.

To display the optimum picture, use the PC setting feature (see page 55).

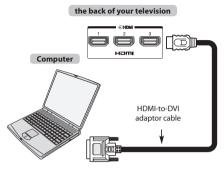
NOTE:

- 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 multi-angle scenes.
- A band may appear at the edges of the screen or parts of the picture may be obscured. This is due to scaling of the picture by the set, it is not a malfunction.
- When PC input mode is selected, some of the television's features will be unavailable e.g. **Colour System** in the **SETUP** menu.
- Some PC models may output unique signals that the television may be unable to detect (see page 65).
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

To connect a PC to the HDMI terminal

When connecting a PC to the HDMI terminal on the television, use an HDMI-to-DVI adaptor cable.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector).



For acceptable PC and video signal formats, see page 66.

NOTE:

- The edges of the images may be hidden.
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

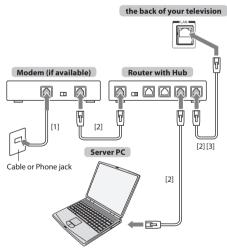
The LAN port allows your Toshiba TV to connect to your home network. You can use this revolutionary home entertainment networking system to access photo, video and audio files that are stored on a DLNA CERTIFIED[™] server and play/display them on vour TV.

NOTE:

English

- · If you connect to a shared network outside your home, it is advisable to use a router. Always use DLNA CERTIFIED™ products in private network environments. Connect this TV to the same router as other DLNA CERTIFIED[™] products (server).
- If you use a hub or switch to connect the TV to your home network, you may not be able to use the automatic setup and will have to manually set up the network address. See page 36.
- If you use a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.
- If you connect the TV and PC directly, use a crossover LAN . cable.

To connect the TV to a home network -Wired

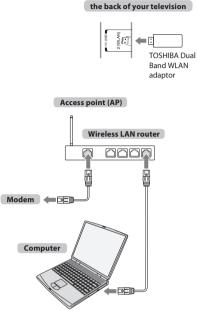


[1] Coaxial or telephone cable (depending on your modem type) [2] Standard LAN cable

[3] Do NOT connect a phone jack directly to the TV's LAN port.

To connect the TV to a home network with an internet connection - Wireless

Please refer to "Wireless Setup" section on page 34.

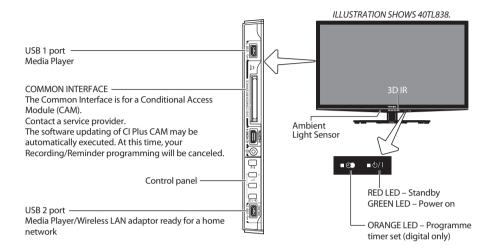


How to use this Dual Band Wireless LAN Adaptor

- If this device is going to be operated in the frequency range of 5.15 GHz to 5.35 GHz, it is restricted to indoor use.
- If this device is going to be operated for 802.11 b/g/n function in the frequency range of 2.454 GHz to 2.4835 GHz in France, it is restricted to indoor use.
- A general authorization is required for using this device outdoors or in public places in Italy.
- This device is NOT ALLOWED to be used in the geographical area within a radius of 20km from the centre of Ny-Alesund in Norway.

Controls and input connections

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



Switching on

If the RED LED is not lit, check that the mains plug is connected to the power supply and press 0 on the remote control; it may take a few moments. The GREEN LED will be lit.

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

For energy saving:

We recommend that you use the television with the factory settings. The factory settings are for energy saving. Unplugging the mains plug will cut energy use to 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.

Using the menu system

Press MENU on the remote control to display the menu.

The menu appears as a list of five topics. As each symbol is selected by pressing \blacktriangleleft or \blacktriangleright on the remote control, its respective options will appear below.

NOTE: The same menu is displayed in DTV (Digital TV) and ATV (Analogue TV) modes; however, where some items are not available in a mode, they will appear grayed out.

To use the option, press \blacktriangle and \bigtriangledown on the remote control to move up and down and press \blacktriangleleft or \blacktriangleright to select your desired setting.

Using the TV controls and connections

- ・ To turn on or off the TV, press ひ/l.
- To alter the volume, press + or .
- + and buttons operate as volume up/down as default.
- To select an external input, press and hold

 P O until the
 Inputs window appears, and then press v or ∧ to select the
 appropriate input source.

The Media Player feature provides access to photo, movie and music files stored on a USB storage device that is connected via the USB 1 or USB 2 port or on a network device.

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

The USB 2 socket has to be used with the "TOSHIBA Dual Band WLAN Adaptor WLM-20U2" in order to access a wireless network.

You must use the TOSHIBA Wireless LAN device to ensure correct operation of this feature. This feature is available only when the "TOSHIBA Dual Band WLAN Adaptor" is used.

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

NOTE: Interactive video games that involve shooting a "gun" at an on-screen target may not work with this TV.

Startup Application

Before switching on the TV, make sure your decoder/media recorder, if applicable, is in **standby**. To set up the television, use the buttons on the remote control as detailed on page 8.

Quick Setup

- Press the **(b** button. The **Menu Language** screen will appear. This screen will appear the first time that the television is switched on and each time **Reset TV** is selected.
- Press ▲ ▼ ◀► to select the menu language and press OK.
 - Highlight **Country** and press ◀ or ► to select. The television is now set to tune the stations for your country.

Quick Setup			
Country	•	Germany	•
Primary Subtitle Language		English	
Secondary Subtitle Language		German	
Primary Audio Language		English	
Secondary Audio Language		English	

NOTE:

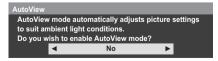
- The following display menus will differ slightly according to the country you selected.
- If there is not a country that you want to select in the list, select **Others**.
- 4

B

Press OK, and the Location screen will appear.

Location	
To use the TV for displayin select [Store]. [Home] moo use.	g in a store showroom, please le is recommended for normal
٩	Home

- 5 Press ◀or ► to select Home or Store. For normal home use, select Home.



Press OK. If the Ant/Cable In screen appears, press ▲ or ▼ to select Antenna or Cable and press OK to check (√).

Ant	/Cable In	
	Antenna	
	Cable	
	Next	

- Select Next and press OK. The Auto Tuning start up screen will appear with the option to select between DTV and ATV, DTV or ATV if available. Use ◀or ► to select the appropriate mode.
 - Press \blacktriangle or \triangledown to highlight Start Scan and press OK.

9

The television will start to search for available **DTV** and/or **ATV** channels. The progress bar will indicate the scan status.

You must allow the television to complete the search.

Auto Tuni	ng Progress	Found
DTV Tune	3%	2
ATV Tune	Waiting	
	Channel: C7	

When the search is complete, the television will automatically select channel one.

The **Auto Tuning** screen will display the total number of services found.

NOTE: If there are multiple channels with the same channel number, a confirmation window will appear. Press ◀ or ▶ to select the one you prefer.

- Press ◀or ► to view the DTV (digital channel) or ATV (analogue channel) lists.
- Press ▲ or ▼ to move through the list to select a channel and press **OK** to view.

In **ATV** mode, some areas may receive duplicate stations. There may not be a clear picture or the signal may be weak, so the station order can be changed using **ATV Manual Tuning**.

REMEMBER: Press **TV** at any time to select between **ATV** and **DTV** modes.

NOTE: The time will be set automatically by transmission but can be advanced or decreased by using **Local Time Setting** in the **DTV Settings** screen.

PLEASE NOTE

The **Quick Setup** menu can also be accessed at any time from the **SETUP** menu.

Ant/Cable In (if available)

From this menu, you can set the RF input configuration.

Press MENU / ◀► to highlight SETUP icon.

Press ▼ to select Ant/Cable In and press ◀ or ► to select Antenna or Cable.

NOTE: When you attempt to change the Ant/Cable In setting, a warning message will appear followed by PIN entry (if PIN has been set) and a prompt for Auto Tuning.

When Ant/Cable In is set to Cable, the following setting options will be provided in the Auto Tuning screen.

Press \blacktriangle or \triangledown to select an item and press \blacktriangleleft or \triangleright to select your desired option.

Auto Tuning	
Tuning Mode	DTV and ATV
Start	Scan
DTV	
Operator Selection	Others
Scan Type	
Start Frequency	Auto
End Frequency	Auto
Modulation	Auto
Symbol Rate	Auto
Network ID	Auto

With the exception of **DTV Scan Type** and **DTV Modulation** items, all of the following items will have 2 operating modes. The first is **Auto** where the values for each item are preset by the system. The second is an **Input** mode where you will be able to enter a single value in place of the pre-set value. If no channel is currently tuned and the **Input** state is chosen, a system default value will be shown. However, if a channel is currently tuned when the item is accessed, the value of the current channel will be displayed.

Operator Selection:

You can choose the Cable operator depending on the **Country** you set.

DTV Scan Type:

This item determines whether a **Quick Scan** or a **Full Scan** will be executed.

The **Quick Scan** is a simplified version of the **Full Scan** that is designed to complete in less time.

DTV Start Frequency:

This sets the frequency from which the scan will begin.

DTV End Frequency:

This sets the frequency at which the scan will end.

DTV Modulation:

You can choose from five QAM modulation settings.

DTV Symbol Rate:

This is the baud rate (KS/s) of the scan.

DTV Network ID:

This is the Network ID to be utilized for the scan. This item is grayed out when DTV Scan Type is set to "Full Scan".

Auto Tuning

NOTE: 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.



Press **MENU** / **I** to highlight **SETUP** icon.

Press ▲ or ▼ to select Auto Tuning and press OK.

SETUP	
Menu Language	English
Country	Germany
Ant/Cable In	Antenna
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Quick Setup	,

B

4

A screen will appear warning that previous programmes and settings will be deleted.



Press **◄**or **▶** to select **DTV and ATV**, **DTV** or **ATV**, if available, then highlight **Start Scan** and press **OK** to continue with the **Auto Tuning**.

NOTE: If you have selected "Others" for the Country field in the SETUP menu, and selected a tuning mode other than "DTV", choose the optimum ATV broadcasting system (B/G, I, D/K or L).

The television will start to search for all available DTV and/or ATV services.

You must allow the television to complete the search.

When the search is complete, the **Auto Tuning** screen will display the services found.

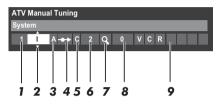
Press \blacktriangle or \triangledown to move through the list to select a channel and press **OK** to view.

ATV Manual Tuning

Tuning

The television can be tuned-in manually using **ATV Manual Tuning**. For example, you might use the feature if the television cannot be connected to a media recorder/decoder with a SCART lead or when you want to tune-in a station on another **System**.

Use \blacktriangleleft and \triangleright to move across the screen and select any of the ATV Manual Tuning options. Then use \blacktriangle or \triangledown to adjust the settings.



1 Position

The number to be pressed on the remote control to tune the channel.

2 System

Specific to certain areas.

3 Colour System

Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.

4 Skip

Set Skip to On (\clubsuit) or Off (\rightarrow) for the selected channel. See page 18.

5 Signal Class

The channel classification.

6 Channel

The channel number on which a station is being broadcast.

7 Search

Search up and down for a signal.

8 Manual Fine Tuning

Only used if interference/weak signal is experienced. See page 60.

9 Station

Station identification. Use the $\blacktriangle \lor$ and $\blacklozenge \lor$ buttons to enter up to seven characters.

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

In the SETUP menu, press ▼ to select ATV Manual Tuning and press OK.

SETUP	
Menu Language	English
Country	Germany
Ant/Cable In	Antenna
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Quick Setup	

Use \blacktriangle or \blacksquare to select the desired position. We suggest **Pos. 0** for a media recorder.

ATV Man	ual Tuning		
Pos.	Channel	Station	
1	C2		▶ '
2	S10		
3	C7		
4	S40		
5	C22		
6	C25		
7	C28		
8	C30		

Different Channel numbers may be displayed.

Press OK to select. If the channel chosen for the media recorder is set to skip, Skip should be removed before storing.

Press ► to select System and press ▲ or ▼ to change if required.



5

2

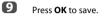
Then press > to select Search.

Press \blacktriangle or \blacksquare to begin the search. The search symbol will flash.

ATV Manual Tuning									
Search									
1 1	4	A →→	С	2	Q	0			

- Each signal will show on the television. If it is not your media recorder, press ▲ or ▼ again to restart the search.
- 8 When your media recorder signal is found, press ► to move along to Station. Use A, ▼, < and ► to put in the required characters, e.g. VCR.





- Repeat for each *position* you want to tune, or press BACK to return to the list of channels and select the next number to tune.
- Press **EXIT** when you have finished.

PLEASE NOTE

This television has direct channel entry if the channel numbers are known. Select the **ATV Manual Tuning** screen in *Step 3*. Enter the **Position number**, the **System**, then **C** for standard (terrestrial) channels or **S** for cable channels and the **Channel** number. Press **OK** to save.

Skip

To prevent certain channels from being viewed, positions can be skipped.



Select ATV Manual Tuning from the SETUP menu.



Use \blacktriangle or \checkmark to highlight the position to be skipped and press **OK** to select.

ATV Mar	ATV Manual Tuning					
Pos.	Channel	Station				
1	C2		•			
2	S10					
3	C7					
4	S40	ABC1				
5	C22	ABC1				
6	C25					
7	C28					
8	C30					

3

Press ► to select Skip.

4

Use ▲ or ▼ to turn **Skip** on. Press **OK**.

• on the screen indicates a skipped position.

ATV Manual Tuning									
Skip: On									
1 1	A -	v+ C	2	Q	0				

5

Press BACK and repeat from Step 2 or press EXIT.

Each position has to be *individually* selected. To turn **Skip** off, repeat the procedure for each position.

Skipped positions *cannot* be selected by **P**^ and **P**~ or by the controls on the television but *can* still be accessed by the number buttons on the remote control.

Sorting positions

Channels may be moved and saved to the position of your choice.



Select ATV Manual Tuning from the SETUP menu.

With the list of channels showing, use \blacktriangle or \triangledown to highlight the channel you want to move and press \blacktriangleright .

A	ATV Manual Tuning						
	Pos.	Channel	Station				
	2	S10	••••••••••••••••••••••••••••••••••••••				
		C7					
		C40	ABC1				
		C22	ABC1				
ŧ	1	C2	•				
		C25					
		C28					
	8	C30					



Use \blacktriangle or \blacktriangledown to move through the list to your preferred position. As you do so, the other channels will move to make room.



Press **4** to save your move.

Repeat as necessary and press EXIT.

DTV Manual Tuning

NOTE: This feature varies depending on the **Ant/Cable In** setting.

Manual Tuning

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

Select **DTV Manual Tuning** from the **SETUP** menu and press **OK**.

DTV Manual Tuning - Antenna								
Signal Strength	WEAK	AVERAG	E STRONO	3				
Quality	GOOD							
Channel		•	13	Þ				
Frequency			506.0MHz					
Bandwidth			8MHz					
	Start	Scan						

Enter the multiplex number using the number buttons or use ◀ or ► to adjust the number up or down.

B Highlight **Start Scan** and press **OK**. The television will automatically search for that multiplex.

DTV I	DTV Manual Tuning - Antenna					
		0 New Channels - Total 6				
New	Pos.	Name	Туре			
	1	ABC ONE				
		ABC TWO				
		ABC THREE				
	40	ABC NEWS 24				
	51	ABCi				

When the multiplex is found, any channels that are not currently in the channel list will be added and the channel information at the top of the screen will be updated.



ก

Repeat as necessary. Press EXIT to finish.

Manual Tuning for DVB-C

When **Ant/Cable In** is set to **Cable, DTV Manual Tuning** items are as follows:

Frequency – input a specific frequency to be scanned

Modulation – choose from one of five QAM modulation options

Symbol Rate – input a specific baud rate (KS/s) to be used for the manual scan

DTV Settings

Channels

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

English

Select **DTV Settings** from the **SETUP** menu and press **OK**.

2

Select Channels and press OK.

DTV Settings					
Channels					
Subtitle and Audio					
Parental PIN Setup					
Parental Control					
Local Time Setting					
Common Interface					

3

For your convenience, you can jump to specific places in the list by one of two methods.

	Channels Line No. 1/10					
Pos.	Name		- @ +			
1	ABC ONE					
2	ABC TWO					
7	ABC THREE					
30	CABC Channel					
40	ABC NEWS 24					
51	ABCi					
822	AA					
823	AC		·			

Line Number Jump — Use the number buttons (0-9) to input the line number you want to select and press OK.

Name Jump — Press **I** or **I** to jump to the next station name with a different initial letter.

It is also possible to change the Position number of a particular channel.

Renumber — Press the **RED** button to renumber the highlighted channel. Edit the channel number using the **number buttons** and press **OK**. If the position number you input already exists, a confirmation window will appear.



Move — Press the **GREEN** button to activate the **Move** feature. Press the \blacktriangle or \checkmark buttons to select the channel you wish to move and press **OK** to check. If you wish to move multiple channels at once, select another channel and check in the same way. Repeat as necessary.

Once all desired channels have been checked, press the \blacktriangle or \blacktriangledown buttons to place the focus at the position to which you wish to move the channels. The channels will be inserted above the highlighted channel. Press the **GREEN** button to execute the move.

	Channels Line No. 1/10					
	Pos.	Name		-@+		
\checkmark	1	ABC ONE				
	2	ABC TWO				
	7	ABC THREE				
	30	CABC Channel				
	40	ABC NEWS 24				
	51	ABCi				
	822	AA				
	823	AC		The second secon		

Position No. Sort — Press the **YELLOW** button. A confirmation window will appear. Press **◄** or **►** to select **Yes** and press **OK**.



Location setting

You can select either **Home** or **Store** mode. **Home** is recommended for normal home use. Select **Store** when using the television for displaying in a shop, etc.



Select Location from the SETUP menu.



Press **◄** or **▶** to select **Home** or **Store**.

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.

General controls

Quick Menu

Quick Menu helps you access some options quickly, such as Picture Mode, Picture Size, More Information, Sleep Timer etc.

Press **QUICK** to display the **Quick Menu** and use \blacktriangle or \blacktriangledown to select the option.

Quick Menu			
Picture Mode	•	AutoView	►
Picture Size		Super Live	
3D Settings			
More Information			
Channel Options			
Toshiba Places			
YouTube			
USB Media Player			
Network Media Player			
Sleep Timer		00:00	
Headphone Level	50	I	-
Wireless Information	_		

NOTE: Quick Menu items are different depending on the current mode.

Mode	Quick menu item	Description
When viewing a TV	Picture Mode	See page 30.
programme or pictures from the	Picture Size	See page 28.
external input	3D Settings	See page 23.
Single Window or	More Information	See page 49.
3D Single Window of	Channel Options	See page 52.
5	Toshiba Places	See page 38.
	YouTube	See page 39.
	USB Media Player	See page 40.
	Network Media Player	See page 41.
	Sleep Timer	See page 48.
	Headphone Level	See page 27.
	Wireless Information	See page 35.
When using EPG	Genre Colour	See page 50.
	EPG Update/ Cancel EPG Update	See page 50.

Mode	Quick menu item	Description
USB Media Player	PICTURE	See page 30.
(Photo Single View, Slide Show)	SOUND	See page 26
Slide Slidw)	Interval Time	See page 42.
	Repeat	See page 42.
	Background Music	See page 42.
	Play List	See page 42.
	Sleep Timer	See page 48.
	Headphone Level	See page 27.

Selecting channels

To select a channel, use the numbered buttons on the remote control.

Channels can also be selected using PA and PV.

To display on-screen information such as channel, input mode or stereo/mono signal, press (+). Press again to cancel.

The Time Display – analogue only

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

Press O whilst watching a normal television broadcast to see the time display from the broadcaster. It will remain on screen for about 5 seconds.

NOTE: This display may not be available in some cases.

Stereo and Bilingual transmissions

For DTV programmes

For stereo or dual mono broadcasts, press M[/] and use d or b to select settings.

Mode Display	Pressing	
🛈 Stereo	Stereo → Left → Right	
●O Dual mono	Dual 1 \rightarrow Dual 2 \rightarrow Dual	
O Mono	-	
O Multichannel	-	

For multi-audio track broadcasts, press [M]/[] repeatedly to change the audio language (see "Audio languages" on page 53).

For ATV programmes

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

Stereo... Press OI/I 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 D[/[] to select **Dual 1**, **Dual 2** or **Mono**.

Using 3D functions

Before using 3D programming, see and follow "When using the 3D glasses" section on page 6.

Viewing 3D programming requires the following:

- TOSHIBA 3D Glasses (not supplied)
- Compatible 3D playback device or 3D source
- 3D capable high quality HDMI cable

Viewing 3D images

Incoming video signals can either be in 2D or 3D format. A 2D signal can only be viewed as 2D, but 3D can be viewed in either 2D or 3D. If the TV can detect the fact that a signal is 3D, it can change to 3D mode automatically – see "Setting the auto start mode" (on page 24). Otherwise the user can change the viewing mode using the 3D button. Finally, the format of the 3D signal can be either Side by Side (SBS) or Top and Bottom (TB). You may have to choose the correct format if the TV can not detect it automatically – see "Switching display mode or selecting 3D format", below.

NOTE:

- When 3D format signal is not received, display mode is not switched to 3D.
- The 3D button is available in digital channels or HDMI input.
- If appropriate mode and format are not selected, 3D image is not correctly displayed.
- There will be restrictions on the Picture Size settings for 3D Mode and 2D Mode.
- There are individual differences in perception of 3D images.
- When viewing 3D images, wear the 3D Glasses.

Switching display mode or selecting 3D format

There are three modes for watching TV.

Mode	Description		
3D	Displays 3D images.		
2D	Changes 3D images to 2D.		
Native	Displays a received signal format as it is.		

3D format select:

If a right and left images are same in Native mode, select SBS.

If a top and bottom images are same in Native mode, select TB. 3D formats are the following.

3D format	Description	
Side by Side (SBS)	Images for the left and right eyes are positioned side-by-side.	
Top and Bottom (TB)	Images for the left and right eyes are positioned at the top and bottom of the screen.	
Frame Packing (FP) *	Image for the left and right eyes for two frames are positioned at the top and bottom of the screen.	

* This format cannot be selected manually.

The 3D button's operation:

The behaviour of **3D** when viewing in Native mode is different depending on the input mode.

Depending on the input mode, the screen for selecting 2D or 3D is displayed or the display mode switches between 2D and 3D.

To switch to 3D mode:

- Set PREFERENCES / 3D Setup / 3D Auto Start to 3D.
- Press 3D while viewing 2D mode or Native mode.

Trigger of Switching Display Mode				Press 3D button
		Source Signal		
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D	* 3D
		SBS	3D 3D	* 3D
		ТВ	SD SD	* 3D
	Without 3D Auto Detect	SBS	3D 3D	* 3D
	Information	ТВ	80 60	3D
2D Format Signal			3D	D3

* Correct 3D image

When the **3D Format Select is in **3D (TB)** mode (see page 23).

To select 3D format from the Quick menu in 3D mode:

- Press QUICK to display the Quick Menu.
- Press ▲ or ▼ to select 3D Settings and press OK.
- Press ▲ or ▼ to select 3D Format Select and press OK.

Press ◀ or ▶ to select 3D (SBS) or 3D (TB).

Trigger of Switching Display Mode				Quick menu	
Input Si	gnal			3D Fomat Select	
Туре	Additional Info	Format	Source Signal	SBS	ТВ
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D		
		SBS	3D 3D		
		ТВ	sd Sd		
Without 3 Auto Dete		SBS	3D 3D	* 3D	עס עס הפ הפ
	Information	ТВ	SD SD	3 1 1 1	* <u>3D</u>
2D Format Signal			3D	D 3	20

* Correct 3D image

4

To switch to 2D mode:

- Set PREFERENCES / 3D Setup / 3D Auto Start to 2D.
- Press **3D** while viewing 3D mode or Native mode.

Input Sig	Press 3D button				
Туре	Additional Info	Format	Format Source Signal		
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D	* 3D	
		SBS	3D 3D	* 3D	
		ТВ	61) 61)	* 3D	
	Without 3D Auto Detect	SBS	3D 3D	3D 3D	
	Information	ТВ	3D 3D	50 50	
2D Format Signal			3D	* 3D	

* Correct 2D image

To select 2D format from the Quick menu in 2D mode:

- Press QUICK to display the Quick Menu.
- Press ▲ or ▼ to select **3D Settings** and press **OK**.
- Press ▲ or ▼ to select 2D Format Select and press OK.
- 4 Press ◀

Press ◀ or ► to select 2D (SBS) or 2D (TB).

Trigger of Switching Display Mode			Quick menu			
Input S	Input Signal			2D Fomat Select		
Туре	Additional Info	Format	Source Signal	SBS	ТВ	Native
3D Format Signal	With 3D AutoDetect Information	FP	3D 3D			
		SBS	3D 3D	* <u>3D</u>		3D 3D
		ТВ	80) 80)		* <u>3D</u>	50 60
	Without 3D Auto Detect	SBS	3D 3D	* 3D	חפ חפ	3D 3D
	Information	ТВ	80 80	[0]	* 3D	SD SD
2D Format Signal		3D	3	201	3D	

* Correct 2D image

NOTE: Take off the 3D Glasses in 2D mode.

To switch to Native mode:

- Press 3D while viewing 3D mode.
- From the Quick Menu in 2D mode.
- In the Quick Menu, press ▲ or ▼ to select 3D Settings and press OK.
- Press ▲ or ▼ to select 2D Format Select and press OK.
- B Press ◀ or ► to select Native.

NOTE: When Frame Packing is input, 2D Format Select will be grayed out.

Setting the auto start mode

Controls what the TV does when it detects a 3D signal.

Press **MENU** / **I** to highlight **PREFERENCES** icon.

Press ▲ or ▼ to select **3D Setup** and press **OK**.

PREFERENCES			
3D Setup			
Network Setup			
Teletext	Auto		
Network Lock	Off		
Panel Lock	Off		
Display Settings			
AV Connection			
Energy Saving Settings			

3

2

Press ▲ or ▼ to select 3D Auto Start.

Press ◀ or ► to select 3D, 2D, or Off.

Option	Description
3D	Displays as 3D mode automatically when 3D format signal is received.
2D	Displays as 2D mode automatically when 3D format signal is received.
Off	Displays a screen that allows you to select 3D or 2D when 3D format signal is received.

Setting the 3D PIN code

A 3D PIN code is necessary for using 3D Safety Settings.

To enter a new PIN code:

- In the PREFERENCES menu, press ▲ or ▼ to select 3D Setup and press OK.
- 2 Press ▲ or ▼ to select 3D PIN and press OK.
- Press the number buttons to enter a 4-digit number. Confirm the code.

NOTE: PIN code cannot be set to "0000".

To change or delete your PIN code:

In the PREFERENCES menu, press ▲ or ▼ to select
 3D Setup and press OK.



- Press ▲ or ▼ to select **3D PIN**.
- Press the number buttons to enter your 4-digit PIN code.

4 Select Change PIN or Delete PIN and press OK.

NOTE:

- PIN code cannot be set to "0000".
- If PIN is deleted, 3D Safety Settings is grayed out, and the settings are reset to the factory default.

Setting 3D Start Message

When this feature is set to On, a message is displayed onscreen when a 3D signal is received.

- In the PREFERENCES menu, press ▲ or ▼ to select
 3D Setup and press OK.
- Press ▲ or ▼ to select 3D Safety Settings and press OK.
- Enter your 4-digit 3D PIN code.
- Press ▲ or ▼ to select 3D Start Message.
- 5 Press ◀ or ► to select On or Off.

Setting 3D Lock

When this feature is set to On, you must enter 3D PIN code for changing display mode.

- 1 In the PREFERENCES menu, press ▲ or ▼ to select 3D Setup and press OK.
- Press ▲ or ▼ to select 3D Safety Settings and press OK.

B Enter your 4-digit 3D PIN code.

4 Press \blacktriangle or \checkmark to select **3D Lock**.

6 Press ◀ or ► to select On.

Setting 3D Timer Lock

When the 3D Timer Lock feature is set to On, neither the PIN input window nor the 3D start message will be shown while the 3D Enable timer is active, even if a switch to 3D Mode occurs. This helps to avoid asking for the 3D Lock PIN and displaying 3D start message every time when switching to 3D.

- In the PREFERENCES menu, press ▲ or ▼ to select
 3D Setup and press OK.
- Press ▲ or ▼ to select 3D Safety Settings and press OK.
- Enter your 4-digit 3D PIN code.
- Press ▲ or ▼ to select 3D Timer Lock.

6

Press **◀** or **▶** to select **On**.

Setting Enable 3D Timer

This feature helps to remind you not to watch 3D video for extended periods of time. Once a set period of time has passed, a dialogue will be shown asking you if you wish to continue viewing or not.

- In the PREFERENCES menu, press ▲ or ▼ to select 3D Setup and press OK.
- Press ▲ or ▼ to select 3D Safety Settings and press OK.
- B Enter your 4-digit 3D PIN code.
- Press ▲ or ▼ to select Enable 3D Timer.
- 5 Press **◄** or **▶** to select **30**, **60**, **90**, or **120** minutes.
- 6 To cancel the timer, select Off.

Displaying 3D Important Info

- In the PREFERENCES menu, press ▲ or ▼ to select 3D Setup and press OK.
- Press ▲ or ▼ to select 3D Important Info and press OK.

Switching left and right images

The left and right eye shutter timing of the glasses can be swapped. If 3D images look blurred, switch the left and right sides of the 3D image.

- Press QUICK on the remote to open the Quick Menu.
- Press ▲ or ▼ to select **3D Settings** and press **OK**.
- B Press \blacktriangle or \triangledown to select Left and Right Image.
- 4
 - Press ◀ or ▶ to select Swapped.

Sound controls

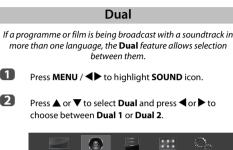
Volume controls and sound mute

Volume

Press \neq or \leq to adjust the volume.

Sound Mute

Press \mathbf{K} once to turn the sound off and again to cancel.



SOUND		
Dual	•	Dual 1 🕨
Balance		0 <u> </u>
Advanced Sound Settings		
Stable Sound		Off
Dynamic Range Control		On
Audio Level Offset		
Headphone Settings		
Audio Description		

Balance

In the **SOUND** menu, press ▲ or ▼ to select **Balance** and press ◀ or ▶ to emphasize left or right speaker balance.

Bass, Treble

- In the SOUND menu, press ▲ or ▼ to select Advanced Sound Settings and press OK.
- 2 Press ▲ or ▼ to select Bass or Treble.
- B Press ◀ or ► to change the setting.

Voice Enhancement

Voice Enhancement *emphasises* the frequency range of the speaker's voice, making it easier to catch what they are saying.



1

In the **Advanced Sound Settings** menu, press ▲ or ▼ to select **Voice Enhancement**.

Press ◀ or ► to select **On** or **Off**.

Dynamic Bass Boost

Dynamic Bass Boost enhances the depth of the sound on the TV speakers. The difference will only be noticeable on sound with strong bass.

- In the Advanced Sound Settings menu, press ▲ or ▼ to select Dvnamic Bass Boost.
- Press **d**or **b** to select the desired bass expansion level (Low, High or Off).

Stable Sound®

Stable Sound reduces the volume level differences between channels. It automatically remains on the same volume level when you change channels.

- In the SOUND menu, press ▲ or ▼ to select Stable Sound.
- 2 Press ◀ or ► to select On or Off.

Dynamic Range Control

This feature allows control of audio compression for some digital TV programmes (MPEG-1 and MPEG-2 audio programmes are not supported).



In the SOUND menu, press \blacktriangle or \triangledown to select Dynamic Range Control.

Press ◀ or ► to select On or Off.

Audio Level Offset

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 **Audio Level Offset** feature reduces these volume differences.



Set the volume level usually used when watching a DTV 5.1ch programme.



Tune to a channel which is DTV 2ch, ATV or an external input.

- In the SOUND menu, press ▲ or ▼ to select Audio Level Offset and press OK.
- Press ▲ or ▼ to select an option, and then press ◀ or
 to adjust the volume level.

Audio Level Offset					
DTV 2ch	-5				
ATV					
External Input					

NOTE:

- The available item changes depending on the current input source. For example, while watching a DTV 2ch programme, only DTV 2ch is available and the other two items are grayed out in the menu. This allows you to easily adjust according to each condition.
- When watching a DTV 5.1ch programme, this feature is not available.

Headphone Settings

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

Speaker Link	Headphone	Speakers
On	Sound is output (∠ – + is available.)	No sound
Off	Sound is output (Headphone level menu is available.)	Sound is output (∠ – + is available.)

- In the SOUND menu, press ▲ or ▼ to select Headphone Settings and press OK.
- Press ▲ or ▼ to select Speaker Link and press ◀ or ▶ to select On or Off.
- If you select **Off**, then highlight **Headphone Level** and use **◄** or **▶** to adjust the headphone sound.

Headphone Settings			
Speaker Link	Off		
Headphone Level	50 ————————————————————————————————————		

Audio Description

Audio Description is an additional narrative sound track for visually impaired individuals to understand and enjoy the story line more fully. The letters AD will be displayed in the channel banner when programmes contain AD content.



In the SOUND menu, select Audio Description and press OK.

2

3

Press \blacktriangle or \blacktriangledown to select **Audio Description** and press \blacklozenge or \blacktriangleright to select **On**.

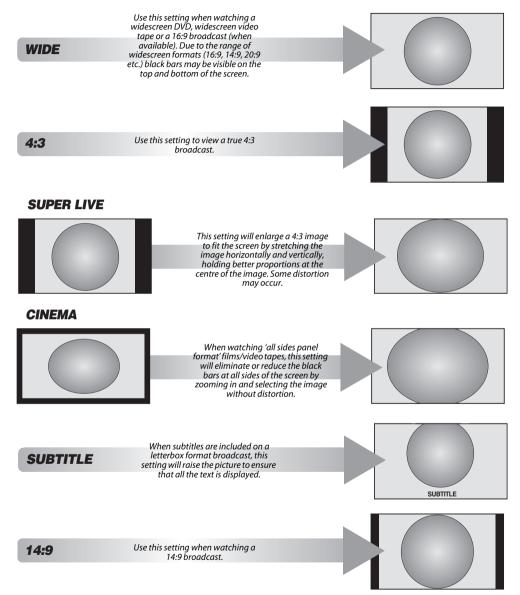
Audio Description			
Audio Description	•	On	►
Mixing Level	50 -		

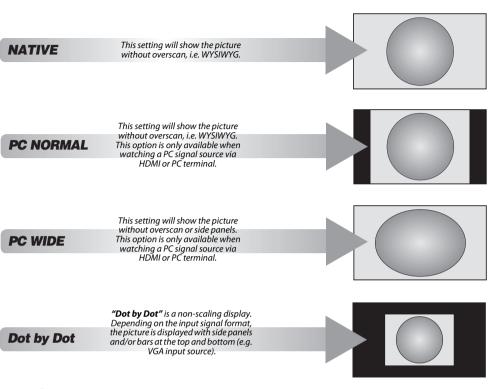
The **AD** button on the Remote can also be used to toggle the **Audio Description** feature between On and Off.

To adjust the level of the audio description sound to the main sound, highlight **Mixing Level** and press ◀ or ▶.

Widescreen viewing

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

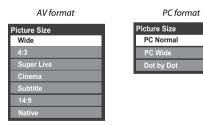




Press the 🛃 button on the Remote to display the list of available widescreen formats.

Press the button repeatedly to highlight the required format.

The Quick Menu feature can also be used to select Picture Size.



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.

Most of the picture controls and functions are available in both **digital** and **analogue** modes. *PLEASE NOTE: Features not available will be grayed out*.

Picture Mode

This television offers the choice of personalising the picture style.

AutoView, Dynamic, Standard, Hollywood 1, Hollywood 2, Store, Game and PC are preset options and affect many features/settings within the television.

NOTE:

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- Because the AutoView mode automatically adjusts picture settings based on ambient light conditions and input signal content, the Auto Brightness Sensor menu is grayed out when it is selected.
- Store mode is only available when Location is set to Store.
- Game mode is available in external input mode (other than aerial input). When you select Game mode, suitable widescreen formats will be selected.
- PC mode is available in RGB/PC input mode or HDMI input mode.

Press **MENU** / **I** to highlight **PICTURE** icon.

Press A or T to select Picture Mode.

::: PICTURE Picture Mode Dvnamic 4 ► Reset Backlight 100 Contrast 100 Brightness n Colour 0 Tint n Sharpness 0

B

Press \blacktriangleleft or \blacktriangleright to select the picture mode you prefer and press **OK**.

NOTE: The picture mode you select affects the current input only. You can select a different picture mode for each input.

Picture preferences

You can customize current picture mode settings as desired. For example, while selecting "Dynamic", if you change the following items, such as Backlight, Contrast, Brightness, Colour, Tint, Sharpness and the Advanced Picture Settings items, your new settings are saved for "Dynamic" picture mode.



2

In the PICTURE menu press ▲ or ▼ to select either Backlight, Contrast, Brightness, Colour, Tint or Sharpness and press OK.

Press ◀ or ► to adjust the settings.

Reset

- This feature resets all picture settings to the factory settings except **Picture Mode**.
- In the **PICTURE** menu, press ▲ or ▼ to select **Reset** and press **OK**.
 - A confirmation message will appear. Press ≤ or ≥ to
 - A confirmation message will appear. Press ◀ or ► to select **Yes** and press **OK**.

ColourMaster

When ColourMaster is set to On, it allows the 'Base Colour Adjustment' feature to become available.

- 1 In the PICTURE menu, press ▲ or ▼ to select Advanced Picture Settings and press OK.
- Press ▼ to select ColourMaster.

ColourMaster	•	Off	
Colour Temperature			
Auto Brightness Sensor			
Active Backlight Control		On	
Black/White Level		High	
Noise Reduction			
Active Vision		Hiah	

3 Pre

Press ◀ or ► to select **On** or **Off** and press **OK**.

Base Colour Adjustment

The **Base Colour Adjustment** feature allows the adjustment of individual colours to suit personal preference. This can be useful when using an external source.



In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Base Colour Adjustment** and press **OK**.

2

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Press \blacktriangle or \triangledown to select an option and press \blacktriangleright to move to the adjustment window.

Base Colour Adjustment

2400 00104171	Hue	Saturation	Brightness		
Red	0	0	0	►	
Green	0	0	0		
Blue Blue	0	0	0		
Yellow	0	0	0		
🔲 Magenta	0	0	0		
Cyan	0	0	0		
Reset					

Press \blacktriangleleft or \blacktriangleright to select **Hue**, **Saturation** or **Brightness** and press \blacktriangle or \blacktriangledown to adjust the settings as required.

	Hue	Saturation	Brightness
Red	0	0	-1

Press BACK to return to the previous menu.

To return to the factory settings, select **Reset** and press **OK**.

Colour Temperature

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

In the Advanced Picture Settings menu, press ▲ or
 ▼ to select Colour Temperature and press OK.

Press ▲ or ▼ to select Colour Temperature and press ◀ or ▶ to select Cool, Normal or Warm to suit your preference.



NOTE: To return the adjustments to the factory defaults, select **Reset** and press **OK**.

Auto Brightness Sensor

When the Auto Brightness Sensor is activated, it will automatically optimise the backlighting levels to suit ambient light conditions.



In the Advanced Picture Settings menu, press A or To select Auto Brightness Sensor.

Press \triangleleft or \triangleright to select **On** or **Off**.

Active Backlight Control

When Active Backlight Control is activated, it will automatically optimize the backlighting levels for dark scenes.

- In the Advanced Picture Settings menu, press ▲ or ▼ to select Active Backlight Control.
- Press ◀ or ► to select On or Off.

Black/White Level

Black/White Level increases the strength of dark areas of the picture to improve the definition.

1

In the **Advanced Picture Settings** menu, press **A** or **V** to select **Black/White Level**.

Press ◀ or ► to select High, Middle, Low or Off.

MPEG NR – Noise Reduction

When watching a DVD, the compression may cause some words or picture elements to become distorted or pixelated.

Using the **MPEG NR** feature reduces this effect by smoothing out the edges.

1

In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Noise Reduction** and press **OK**.

- **2** F
 - Press 🛡 to select MPEG NR.

Noise Reduction			
MPEG NR	•	Low	►
DNR		Auto	

3

Press **◀**or **▶** to select **Low**, **Middle**, **High** or **Off** to suit your preference.

DNR – Digital Noise Reduction

DNR allows you to 'soften' the screen representation of a weak signal to reduce the noise effect.



Select **DNR** from the **Noise Reduction** menu.

Press **◄** or **▶** to select **Low**, **Middle**, **High**, **Auto** or **Off**. The differences may not always be noticeable (for the best result use lower settings as picture quality can be lost if the setting is too high).

Active Vision

This feature will reduce picture blur without decreasing image brightness or adding flicker.



In the **Advanced Picture Settings** menu, press ▲ or ▼ to select **Active Vision**.

Press **◄** or **▶** to select **High**, **Middle**, **Standard** or **Off**.

NOTE: When Picture Mode is set to Game, this feature will be grayed out and automatically set to Off.

Resetting the advanced picture settings

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



In the **Advanced Picture Settings** menu, press **A** or **V** to select **Reset**.

2

Press OK.

Automatic Format (Widescreen)

When this television receives a true Widescreen picture and Auto format is On, it will automatically be displayed in Widescreen format irrespective of the television's previous setting.



Press **MENU** / **I** to highlight **PREFERENCES** icon.



Press \blacktriangle or \blacksquare to select **Display Settings** and press **OK**.

Press ▲ or ▼ to select Auto Format and press ◀ or ► to select On or Off.

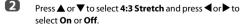
Display Settings			
Auto Format	•	On	۲
4:3 Stretch		Off	
Picture Position			
PC Settings			

4:3 Stretch

When **4:3 Stretch** is activated, the size switching system changes 4:3 programmes into full screen picture.



In the **PREFERENCES** menu, press \blacktriangle or \triangledown to select **Display Settings** and press **OK**.



Blue Screen

When **Blue Screen** is selected, the screen will turn blue and the sound will be muted on analogue channels and external input modes when no signal is received.

NOTE: Some external input sounds may not be muted.

In the PREFERENCES menu, press ▲ or ▼ to select Blue Screen.



2

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4

Picture Position

The picture position may be adjusted to suit personal preference and can be particularly useful for external inputs.

- In the PREFERENCES menu, press ▲ or ▼ to select Display Settings and press OK.
 - In the Display Settings menu, press A or V to select Picture Position.

Display Settings	
Auto Format	On
4:3 Stretch	Off
Picture Position	
PC Settings	

- Press **OK** to view the options available for the picture format that has been selected.
- Press \blacktriangle or \triangledown to select an option and press \blacktriangleleft or \triangleright to adjust the settings.

The options differ depending on the currently selected widescreen format and the input signal.

Picture Position					
Horizontal Position	0	I			
Vertical Position	0				
Reset					

To return to the original factory settings, select **Reset** in the **Picture Position** menu and press **OK**.

Picture still

This feature is used to hold a still image on the screen.

Press 文 to hold an image on the screen, and press 🔍 again to cancel.

П

Using your home network

This TV is a DLNA CERTIFIED[™] Player. This TV can play digital content stored on a DLNA CERTIFIED[™] product with server function.

If you want to use this TV as a DLNA CERTIFIED[™] Player, you will have to configure the network on your TV (see page 12).

If you want to use your home network, you will have to configure the network on your TV. (see page 12)

Change the network settings if necessary (see "Setting up the Network" on page 34).

When using a wireless home network:

Wireless Interoperability

The TOSHIBA Dual Band WLAN Adaptor is designed to be interoperable with any wireless LAN product that is based on Direct Sequence Spread Spectrum (DSSS)/Orthogonal Frequency Division Multiplexing (OFDM) radio technology, and is compliant to:

- The IEEE 802.11 Standard on Wireless LANs (Revision a/b/g/ n), as defined and approved by the Institute of Electrical and Electronics Engineers.
- The TOSHIBA Dual Band WLAN Adaptor is intended for use with the TL83 series LCD TV's and should not be used with any other devices.

Use of the WLAN Adaptor in other USB products may result in damage to the WLAN Adaptor and or the equipment. Such use will void any warranty that may otherwise apply, and TOSHIBA will have no liability for any damage that may result from such use.

CAUTION

Bluetooth[™] and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth[™] and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection.

If you should experience any such problem, immediately turn off either your Bluetooth™ or Wireless LAN device.

Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage.

Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Wireless LAN and your Health

Wireless LAN products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless LAN devices, however, is far less than the electromagnetic energy emitted by wireless devices such as mobile phones.

Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.

In some situations or environments, the use of Wireless LAN may be restricted by the proprietor of the building or responsible representatives of the organization. Such restrictions may apply in environments where the risk of interference to other devices or services is perceived or identified as harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific organization or environment, you are encouraged to ask for authorization to use the Wireless LAN device prior to turning on the equipment.

This Dual Band Wireless LAN Adaptor may be operated in the following countries:

AT	Austria	IS	Iceland
BE	Belgium	LI	Liechtenstein
СН	Switzerland	LT	Lithuania
СҮ	Cyprus	LU	Luxembourg
cz	Czech Republic	LV	Latvia
DE	Germany	МТ	Malta
DK	Denmark	NL	Netherlands
ES	Spain	NO	Norway
FI	Finland	PL	Poland
FR	France	РТ	Portugal
GB	United Kingdom	SE	Sweden
GR	Greece	SI	Slovenia
EE	Estonia	SK	Slovakia
HU	Hungary	BG	Bulgaria
IT	Italy	RO	Romania
IE	Ireland	TR	Turkey

How to use this Dual Band Wireless LAN Adaptor

- If this device is going to be operated in the frequency range of 5.15 GHz to 5.35 GHz, it is restricted to indoor use.
- If this device is going to be operated for 802.11 b/g/n function in the frequency range of 2.454 GHz to 2.4835 GHz in France, it is restricted to indoor use.
- A general authorization is required for using this device outdoors or in public places in Italy.
- This device is NOT ALLOWED to be used in the geographical area within a radius of 20km from the centre of Ny-Alesund in Norway.

Setting up the Network

You can select the Network Type.

- Press MENU / I to highlight PREFERENCES icon.
- 2

Press ▲ or ▼ to select Network Setup and press OK.

3D Setup				
Network Setup				
Teletext	Auto			
Network Lock	Off			
Panel Lock	Off			
Display Settings				
AV Connection				
Energy Saving Settings	· · · · · · · · · · · · · · · · · · ·			

Press ▲ or ▼ to select Network Type and press ◀ or
 to select Wired or Wireless.

Network Setup			
Network Type	•	Wired	¥
Wireless Setup			
Advanced Network Setup			
Network Connection Test			

NOTE: If the Dual Band WLAN Adaptor is not connected, Wireless cannot be selected.

If you selected **Wired**, see "Advanced Network Setup" on page 36.

Wireless Setup

NOTE:

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- This feature is grayed out when the Dual Band WLAN Adaptor is not connected or Network Type is set to Wired.
- When you insert or remove the wireless LAN adaptor, you
 must turn off your TV and unplug the power cord, and then
 plug and turn on again.
- Continued connection of **AP** (Access Point) is not guaranteed. The connection may be disconnected while watching TV.
- Do not remove the Dual Band WLAN Adaptor when Network Type is set to Wireless or wireless communication is active.

There are 2 methods for Wireless Setup:

Assisted setup by using the Wi-Fi Routers notification information.

Network name, Authentication and Encryption are decided based on information sent from the Wi-Fi router. Security key to be set manually.

Manual setup

Network name, Authentication, Encryption and Security Key all to be inputted manually.

Assisted Setup

- In the PREFERENCES menu, press ▲ or ▼ to select Network Setup and press OK.
- 2 Press ▲ or ▼ to select Wireless Setup and press OK.
- B Press ▲ or ▼ to select Assisted Setup and press OK.

Wireless Setup	
Assisted Setup	
Manual Setup	

Press \blacktriangle or \triangledown to select the desired AP and press **OK**.

NOTE: Check the MAC address on the label of the AP or in the manual, and select your AP.

- Highlight **Security Key** and press **OK**. The Software Keyboard window will appear.
- Input the Security Key by using the Software Keyboard (see page 38). To save your setting, press the **BLUE** button.

NOTE:

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- The Security Key must adhere to these conditions:
 - TKIP/AES: 8-63 ASCII or 64 Hex characters
 - WEP: 5 or 13 ASCII or 10 or 26 Hex characters
- There is only one key ID to set for WEP encryption.

Highlight **Done** and press **OK**.

NOTE: If Network Name is not displayed, see step 4 and 5 in Manual Setup below to set Network Name before pressing Done.

NOTE: Settings are not saved if **BACK** is pressed before **Done** is selected.

Manual Setup

the **BLUE** button

 In the PREFERENCES menu, press ▲ or ▼ to select Network Setup and press OK.
 Press ▲ or ▼ to select Wireless Setup and press OK.
 Press ▲ or ▼ to select Manual Setup and press OK.
 Press ▲ or ▼ to select Network Name and press OK.
 Press ▲ or ▼ to select Network Name and press OK. The Software Keyboard window will appear.
 Input the Network Name by using the Software Keyboard (see page 38). To save your setting, press 6 Press ▲ or ▼ to select Authentication and press ◀ or ► to select Open System, Shared Key, WPA-PSK or WPA2-PSK.

7

Press \blacktriangle or \checkmark to select **Encryption** and press \blacktriangleleft or \triangleright to select **None**. WEP. TKIP or AES.

NOTE:

- Certain encryption types are only compatible with specific authentication types.
 - When Authentication is Open System, only WEP or None is compatible.
 - When Authentication is Shared Key, only WEP is compatible.
 - When Authentication is WPA-PSK or WPA2-PSK, only TKIP or AES is compatible.
- When incompatible Authentication/Encryption pairings are detected, a warning message will be displayed, and no connection attempt will be made until the incompatibility is resolved.
- There is only one key ID to set for WEP encryption.
- 8
- Press ▲ or ▼ to select Security Key and press OK.
- Input the Security Key by using the Software Keyboard (see page 38). To save your setting, press the **BLUE** button.

NOTE: This item is grayed out when **Encryption** is **None**.

Highlight **Done** and press **OK**.

NOTE: When Encryption is None, a message will appear. Press ◀ or ▶ to select Yes and press OK.

NOTE: Settings are not saved if **BACK** is pressed before **Done** is selected.

Wireless Information

The settings configured in Wireless Setup can be confirmed.

1

Press QUICK to open the Quick Menu.

Press ▲ or ▼ to select Wireless Information and press OK.

Quick Menu	
Picture Mode	AutoView
Picture Size	Super Live
3D Settings	
More Information	
Channel Options	
Toshiba Places	
YouTube	
USB Media Player	
Network Media Player	
Sleep Timer	00:00
Headphone Level	50 —— — —
Wireless Information	

B

When the **Network Type** is **Wireless**, a Wireless Information window will appear.

NOTE: Press the RED button to scan for all APs.

ltem	Description
Status	Connected is displayed when the TV is connected with the AP. Disconnected is displayed when the TV is not connected with the AP.
Signal	Connection signal strength with AP (STRONG/MEDIUM/WEAK)
Speed	Link with AP
Mode	Working mode (11a, 11b, 11g, 11n)
Network Name	SSID set
Authentication	Authentication set
Encryption	Encryption set
Security Key	Security Key set
AP MAC Address	The AP's MAC address is displayed when the TV is connected with the AP.
TV MAC Address	The MAC address of the USB (Dual Band WLAN Adaptor) is displayed.
DHCP	Enabled is displayed when using DHCP. Disabled is displayed when not using DHCP.
IP Address	The TV's IP address
Subnet Mask	Value of the Subnet Mask
Default Gateway	Address of the Default GATEWAY
DNS	Address of the DNS

NOTE: Even if an AP for IEEE 802.11n is used when **Encryption** is set to **WEP** or **TKIP**, the Speed value might be low. It is recommended that **Encryption** be changed to **AES** (see "Manual Setup" on page 34).

Notes on wireless LAN environment:

- The function of all IEEE802.11 is not supported.
- The ad-hoc mode is not supported.
- It is recommended to use IEEE 802.11a or IEEE 802.11n on 5 GHz for audio and SD video streaming.
- It is recommended to use IEEE 802.11n on 5 GHz for HD video streaming.
- It is recommended that the encoding rate for streaming video content is 20 Mbps or less.
- It is not recommended to use 2.4 GHz for audio and video streaming.
- Content playback may be interrupted by various surrounding interference.

Advanced Network Setup

NOTE:

- When the DHCP function of the router connected with this TV is On, you can set Auto Setup to On or Off. (This should usually be set to On.)
- When the DHCP function of the router is Off, set **Auto Setup** to **Off**, and set the IP Address manually.

IP Address Setup

Auto Setup:

In the PREFERENCES menu, press ▲ or ▼ to select Network Setup and press OK.



Press \blacktriangle or \triangledown to select **Advanced Network Setup** and press **OK**.

Network Setup	
Network Type	Wired
Wireless Setup	
Advanced Network Setup	

B

Press \blacktriangle or \blacksquare to select **IP Address Setup** and press **OK**.

Advanced Network Setup	
IP Address Setup	
DNS Setup	
MAC Address	

Highlight Auto Setup and press ◀ or ► to select On.

IP Address Setup							
Auto Setup	◄			On			►
IP Address		xxx	xxx		xxx	xxx	
Subnet Mask		255	255		255	0	
Default Gateway							

NOTE: Other items will be grayed out when Auto Setup is set to On.

Manual Setup:

4

6

In the **PREFERENCES** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.

- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- B Press ▲ or ▼ to select IP Address Setup and press OK.
 - Highlight Auto Setup and press ◀ or ► to select Off.

IP Address Setup										
Auto Setup	◄	◄ Off								
IP Address		xxx		xxx		xxx		xxx		
Subnet Mask		255		255		255				
Default Gateway										

B Press ▲ or ▼ to select IP Address.

Press ◀ or ▶ to highlight the field you want to change, and then use the number buttons to input the IP address. To save the setting, press **OK**.

NOTE: IP address field numbers must be between 0 and 255. After each field number has been set, press **OK** to store the entire address. If the entire IP Address is invalid, a warning message will appear after **OK** is pressed.

- 7 Pre
 - Press \blacktriangle or \blacktriangledown to select **Subnet Mask**, and edit in the same way as IP Address.

IP Address Setup										
Auto Setup	Off									
IP Address	ххх		xxx		xxx		ххх			
Subnet Mask	255		255		255		0			
Default Gateway										

Press ▲ or ▼ to select Default Gateway, and edit in the same way as IP Address.

NOTE: If you manually set the IP address, you must not use the same IP address for any other device. The IP address you use should be a private address.

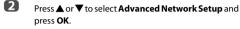
DNS Setup

NOTE: When the DHCP function of the router connected to this TV is Off, set Auto Setup to Off, and manually set the DNS address(es). Your internet service provider should have provided these to you.

Auto setup:



In the **PREFERENCES** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.





Press ▲ or ▼ to select **DNS Setup** and press **OK**.

Press ▲ or ▼ to highlight Auto Setup and press ◀ or
 to select On.

NOTE: Other items will be grayed out when Auto Setup is set to On.

Manual setup:



In the **PREFERENCES** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.

Press ▲ or ▼ to select Advanced Network Setup and press OK.

3

Press \blacktriangle or \blacksquare to select **DNS Setup** and press **OK**.

Press \blacktriangle or \triangledown to select **Auto Setup** and press \blacktriangleleft or \triangleright to select **Off**.

DNS Setup							
Auto Setup	◄			Of	F		►
Primary DNS Address		xxx	xxx		xxx	xxx	
Secondary DNS Address		255	255		255		



7

Press \blacktriangle or \blacksquare to select **Primary DNS Address**.

Press **◄** or **▶** to highlight the field you want to change, and then use the number buttons to input the Primary DNS Address. To save the setting, press **OK**.

NOTE: DNS address field numbers must be between 0 and 255. If you input an incompatible number and press **OK**, the field number will reset to the previous value.

Press \blacktriangle or \blacksquare to select **Secondary DNS Address**, and edit in the same way as Primary DNS Address.

MAC Address

ก

You can view the fixed MAC address for the TV and for the Dual Band WLAN Adaptor, if one is installed.

- In the **PREFERENCES** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- B Press ▲ or ▼ to select MAC Address and press OK.

Network Connection Test

This function checks the Internet connectivity.

- In the PREFERENCES menu, press ▲ or ▼ to select Network Setup and press OK.
- Press ▲ or ▼ to select Network Connection Test and press OK.

A message will appear to indicate if the connection was successful or if it could not be completed.

NOTE: The result of Network Connection Test does not always guarantee the connection. Depending on the situation, YouTube may not be able to be used.

To cancel the Network Connection Test:



Press **BACK** while searching for the Internet connection.

Using the software keyboard

You can enter text by using the Software Keyboard. The Software Keyboard window will appear when you press **OK** on a field that accepts character input.

To enter text using the software keyboard:



Highlight the desired character on the on-screen software keyboard.

Press OK.

B Repeat steps 1 and 2 until you have entered all desired text.

Press the BLUE button to close the software keyboard and return to the previous screen.

NOTE: If **BACK** is pressed, changes are not saved and the software keyboard window is closed. The text will remain as it was before starting the keyboard.

				Α	a 1	I @
AA	AA					
Α	В	С	D	E	F	G
Η		J	Κ	L	М	Ν
0	Ρ	Q	R	S	Т	U
V	W	X	Y	Ζ		

Input operation on the remote control:

Button	Description
ОК	Inputs the selected character.
0-9	Inputs the number directly.
▲▼◀►	Moves the character highlight.
	Moves the cursor.
H	Moves the cursor to the head of a character string.
₩	Moves the cursor to the end of a character string.
RED	Deletes 1 character to the left of the cursor.
GREEN	Cycles through upper case, lower case, numbers, and symbols, if available.
YELLOW	Chooses an accented version of the current letter, if applicable.
BLUE	Saves changes and closes the Software Keyboard window.
ВАСК	Closes the Software Keyboard window without saving changes.

Using Toshiba Places

A new cloud based service, where content (movies, photos, etc.) can be viewed and shared across the web through a simple user interface called "Toshiba Places".

NOTE: You need to configure a home network before using this feature (see page 12).



Press → on the remote control, or press MENU / to highlight APPLICATIONS icon and press ▼ to select Toshiba Places and press OK.

The **Quick Menu** feature can also be used to select **Toshiba Places**.

Press ATT to select the desired place and press OK.

NOTE:

 Some features require an always-on broadband internet connection, firmware update and/or additional bandwidth dedicated to this product. Third party internet services may change or be discontinued or restricted at any time. Toshiba makes no warranties, representations, or assurances about the content, availability or functionality of third-party content or services. Use of third party internet services may require registration by a computer and/or payment of charges and membership. Not all services or content may be available on this product, in your country or with your language. In order to experience the full capabilities of this product, fully compatible devices may be required. For more information, visit

http://www.toshibaplaces.com/about.

• This service may be forcibly blocked according to the situation of CSP service.

Using YouTube™

YouTube is a video-sharing service managed by YouTube, LLC.

This TV allows you to view YouTube content.

NOTE:

- You need to configure a home network before using this feature (see page 12).
- If Network Lock is set to On, it will be necessary to enter your four-digit PIN code in order to access network features (see page 51).



Press **MENU** / ◀▶ to highlight **APPLICATIONS** icon and press ▼ to select **YouTube** and press **OK**.

The YouTube top page will appear.

The **Quick Menu** feature can also be used to select **YouTube**.



Press $\blacksquare \forall \blacksquare \forall$ to select the file you want to view, and press **OK**.

To close YouTube:

Press EXIT.

1

NOTE:

- This TV may not be able to perform all of the same operations as a computer.
- Depending on the network environment and use case, you may experience difficulty viewing content.
- Though the same volume value, actual volume might be greatly different depending on contents.
- It may take time for the TV to load and begin playing back content.
- Service content and the look and feel of the interface may be changed at any time without prior notice.

Using Hybrid TV Standard (if available)

Hybrid TV Standard enables the TV to receive HbbTV services. TV services which support this feature often show "press RED" on the screen.

NOTE: You need to configure a home network before using this feature (see page 12).

Press MENU / ◀► to highlight PREFERENCES icon.



Press **V** to select **Hybrid TV Standard**.

B Press ◀ or ► to change from **Disabled** to **Enabled**.

When changing from **Disabled** to **Enabled**, a **Network Connection Test** is performed. If the result is OK, then the setting changes to **Enabled**. If not, the setting remains **Disabled**.

When "**press RED**" is indicated on the screen, press the **RED** button to access HbbTV service site, and then press ▲▼◀▶ to select the desired contents.

NOTE:

- This service is not available outside Germany.
- The HbbTV service indication or required key operations may not be possible depending on the service contents. In this case set the Hybrid TV Standard setting to Disabled.
- Toshiba makes no warranties, representations, or assurances about the content.

Using the Media Player

This TV allows you to enjoy movie, music and photo files stored on a USB device connected to the USB port.

Moreover, you can also play photos, movies or music files from your PC by connecting the TV to your home network.

Terminology:

DMP: DLNA CERTIFIED[™] Player

DMS: DLNA CERTIFIED[™] Server

- DMP: The TV can control and play content from a DMS.
 - A DMS is a device that can function as a server for DMP.

NOTE:

- Do not insert/remove USB device while in use.
- MENU is not available during playback.

Media Player Specifications

Device

USB device

Interface version: USB2.0 HS

USB Mass Storage Class devices (MSC)

NOTE:

- · Connectivity is not guaranteed for all devices.
- Incorrect behaviour may occur with a USB hub connection.

File system: FAT16 and FAT32

Maximum memory size: Unlimited

DLNA CERTIFIED[™] Server: Your PC (for example)

You must obtain any required permission from copyright owners to download or use copyrighted content. TOSHIBA cannot and does not grant such permission.

Basic operation

Using Media Player with USB

When Auto Start is enabled, you will be asked if you want to start the Media Player whenever a USB device is inserted. If Auto Start is disabled (or if you want to connect to a DMS on the network), you must manually start the Media Player from the menu.

To change the Auto Start setting:

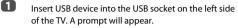


Press **MENU** / **I** to highlight **APPLICATIONS** icon.

Press **V** to select **USB Media Player** and press **OK**.

- Press ▲ or ▼ to select USB Auto Start and press ◀ or
 to select On or Off.

Auto Start:



- Press ◀ or ► to select Yes and press OK.
- Press ▲ or ▼ to select Photo, Movie, or Music and press OK.
- 4
- Select the connected USB device and press **OK**.

Multi View will appear.

NOTE: If **Auto Start** is set to **Off**, you can start the Media Player manually.

Manual Start:

- Insert USB device into the USB socket on the left side of the TV.
- Press MENU / I to highlight APPLICATIONS icon.
- B Press ▼ to select USB Media Player and press OK.
- Press ▲ or ▼ to select Photo, Movie or Music and press OK.
- 5 Select the connected USB device and press OK.

Multi View will appear.

To select a file in the Multi View:

- Press ▲▼ ◀► to select a file or folder.
 - Press **OK** to move to the next layer, or press **BACK** to return to the previous layer.

NOTE: You can also return to the previous layer by selecting the icon at the top left of the **Multi View** screen and pressing **OK**.

To close the Media Player:



2

Using the Media Player with a DLNA CERTIFIED™ Server

You need to configure a home network before using this feature (see page 12).



Press **MENU** / **I** to highlight **APPLICATIONS** icon.



Press ▼ to select Network Media Player and press OK.

3

Select the server you want to use and press **OK**.

Multi View will appear.

Hulti View (DHS)

Photo, Movie and Music files and folders are displayed in the **Multi View** (DLNA).

Files are displayed according to the type first selected (**Photo**, **Movie** or **Music**).

e.g. If you first selected a Photo file, only Photo files will be displayed.

To select a file in the Multi View:



Press **AVI** to select a file or folder.



Press **OK** to move to the next layer, or press **BACK** to return to the previous layer.

NOTE: You can also return to the previous layer by selecting the icon at the top left of the **Multi View** screen and pressing **OK**.

To close the Media Player:



Press EXIT.

Viewing photo files (on a DLNA CERTIFIED[™] Server or USB device)

There are three types of viewing modes.

Multi View (USB Photo)

This view allows you to search for photos in a grid format. The pictures are displayed using thumbnail data in each image file.

HOTO			O 5/9999
			10 A -
Return	xxxxxxxxxx.jpg	хэхохохох jpg	xxxxxxxxxx.jpg
Helen.	N. Martin	Aler a	
хоххооох jpg	xxxxxxxxxx.jpg	xxxxxxxxx.jpg	жжжжжж.jpg
xxxxxxxxx.jpg	хоожхоож.jpg	xxxxxxxxxx.jpg	xxxxxxxxx.jpg

The initial highlighted position will be on the top left thumbnail in the Multi View.

Press ▲ ▼ ◄► to move the highlight in one window. If all of the photos will not fit in one screen, when pressing ◀ at the top left thumbnail, the screen will move to the previous page. Conversely, when pressing ► at the bottom right thumbnail, the screen will move to the next page.

P \wedge (or $\langle \langle \rangle \rangle$) **P** \vee (or $\rangle \langle \rangle \rangle$) buttons can be used to page up/down the **Multi View** when there are more photos than will fit onto one screen. When the **P** \wedge (or $\langle \langle \rangle \rangle$) **P** \vee (or $\rangle \langle \rangle \rangle$) buttons are pressed, the highlight shall be on the photo at the top left of **Previous/Next Multi View**.

NOTE: The page down function on the last page and page up function on the first page are not available.

- When you select a folder, press OK to move to the next layer. Press BACK to move back to the previous layer.
- B Press **OK** to view the selected photo in Single View mode.

Single View

In this mode, only files located in the selected directory will be displayed. This view allows you to change the photo content manually. When moving from Multi View to Single View, the currently selected photo will be displayed.



Press to view the next photo. Press to view the previous photo.



Press **A** to rotate the image 90° clockwise. Press **V** to rotate the image 90° counterclockwise.



Press (i+) to display file status information (file number, photo title, resolution etc.).

NOTE: The information may not be correctly displayed depending on the contents or DMS.

Slide Show

This view allows you to watch a slide show of your photos. In this mode, only files located in the selected directory will be played.



To start slide show, press **OK** in the Single View mode.



Press ◀or ▶ to view the previous/next photo.

Press (i+) to display file status information.

NOTE: Pressing ▲ or ▼ while in the Slide Show mode will stop the slideshow and rotate the photo.

To set Interval Time and Repeat settings:



Press QUICK to open the Quick Menu.



Press **A** or **V** to select either **Interval Time** or **Repeat**.



Press \blacktriangleleft or \blacktriangleright to adjust the setting and press **OK**.

NOTE: When in the DMS and Multi View modes, this feature cannot be used.

To set Background Music (USB only)



Press QUICK to open the Quick Menu while in the Slide Show mode.



Press **A** or **V** to select **Background Music** and press ✓ or ► to select On.

The music file in the same folder as the displayed photo will start plaving.

NOTE:

- When the music file repeat mode is set to All (see page 46), all the music files in the same folder as the photo will be played repeatedly.
- To stop music file playback, select Off in Background Music.

To zoom in/out photos

During the Single View mode or Slide Show mode, the zoom function can be used.

RED button (Zoom in)

```
USB: x1 \rightarrow x2 \rightarrow x4 \rightarrow x8 zoom
```

DMP:
$$x1/8 \rightarrow x1/4 \rightarrow x1/2 \rightarrow x1 \rightarrow x2 \rightarrow x4 \rightarrow x8$$
 zoom

GREEN button (Zoom out)

USB: $x8 \rightarrow x4 \rightarrow x2 \rightarrow x1$ zoom **DMP:** $x8 \rightarrow x4 \rightarrow x2 \rightarrow x1 \rightarrow x1/2 \rightarrow x1/4 \rightarrow x1/8$ zoom

BACK button: Normal playback

▲ ▼ ◀ ▶ buttons: Vertical or Horizontal scrolling

NOTE: Using the zoom function while in the Slide Show mode will stop the slideshow and zoom in/out the photo.

To select a photo from Play List

While in the Single View mode or Slide Show mode, you can select a different photo from the Play List.

ก

Press OUICK to open the Ouick Menu from Single View mode or Slide Show mode.



Press ▲ or ▼ to select Play List.

The Photo List will appear.

B Press \blacktriangle or \triangledown to select a file name.

To close the Photo Viewer

n Press EXIT. The television will return to the last viewed channel or external input.

File Compatibility

See page 67.

Viewing movie files (on a DLNA CERTIFIED[™] Server or USB device)

You can select movies from a Multi View of available files.

Multi View (USB Movie)



П Press $\blacktriangle \forall \blacklozenge \flat$ to select a file or folder. **P** \land (or $\langle \langle \rangle \rangle$) $P \sim (\text{or } \gg / \gg)$ buttons can be used to page up/down the Multi View when there are more files than will fit onto one screen.

> **NOTE:** The page down function on the last page and page up function on the first page are not available.

When you select a folder, press OK to move to the next layer. Press BACK to move back to the previous layer.

B With the desired file selected, press **OK** or **>** (play) to start playback.

NOTE:

- On preview screen, if you highlight the file without pressing **OK**, the content is played on a preview screen. When OK is pressed, it is played in full screen mode
- Depending on the file size, it may take some time to start playback.



2

Press **T** to stop playback.

NOTE:

- If playback finishes before is pressed, the screen will return to the Multi View.
- · Depending on the file size, it may take some time for playback to begin.

During playback:

Press I/II► to pause.

PAUSE may not be available depending on the contents or DMS

- To resume normal playback, press ► (play).
- To play in fast reverse or fast forward directions, press or \blacktriangleright during playback. Each time you press the \blacktriangleleft or \triangleright , the playback speed will change.
- Press (i+) to display the file status information (content number, movie title, progress time etc.).

NOTE:

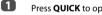
- The information may not be correctly displayed depending on the contents or DMS.
- During playback, you can adjust the **PICTURE** and SOUND menu functions from the Quick Menu.
- The playback speed (◀◀ / ▶▶) may not change depending on the stream.

To select subtitle and audio languages (USB only)

- Press SUBTITLE repeatedly to select your preferred subtitle language.
- Press) [/] repeatedly to select your preferred audio language.

NOTE: This feture is not available depending on the contents.

To set the repeat mode



Press QUICK to open the Quick Menu.

2 Press \triangleleft or \triangleright to select Off. All or 1.

Mode	Description
Off	The file is played back only once.
All	Files in the same folder are repeatedly played back.
1	The same file is repeatedly played back.

ß Press BACK

NOTE: When in the DMS and Multi View modes, this feature cannot be used.

You can resume playback from where it was last stopped.

Press while playing the movie to memorize the stopped position.

On the **Multi View** screen, if you select a movie whose stopped position has been memorized, the message "Resume Play?" will appear. Select Yes to resume playback from the last stopped position.

NOTE: If you play different content or exit Media Player, the memorized stopped position will be deleted.

To select a movie from Play List

While playing a movie, you can select a different movie from the Play List.



Press QUICK to open the Quick Menu.



Press **A** or **V** to select **Play List**.

The Movie List will appear.

Press \blacktriangle or ∇ to select a file name.

2

To close the Movie Viewer



Press EXIT.

File Compatibility

See page 67.

To register your TV to a DivX® account

This TV allows you to play back files purchased or rented from DivX[®] Video-On Demand (VOD) services. When you purchase or rent DivX® VOD files on the internet, you will be asked to enter a registration code.



2

In the Media Player Setup menu, press A or V to display DivX[®] VOD and press OK.

Press A or V to highlight DivX[®] VOD Registration and press OK.

DivX[®] VOD DivX[®] VOD Registration DivX[®] VOD Deactivation



4

B

The DivX* VOD window will appear and you will see the registration code. For details on registration, please visit the DivX® website at

http://vod.divx.com

Copy the activation file to a memory device and play it on the TV

To deactivate your device

ก In step 2 above, highlight DivX* VOD Deactivation, and then press OK.

- 2 A confirmation message will appear. Select Yes and press OK.

The **DivX**[®] **VOD** window will appear and you will see the deactivation code. For details on registration, please visit the DivX® website at

http://vod.divx.com

ABOUT DIVX VIDEO: DivX[®] is a digital video format created by DivX, Inc. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX video.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

DivX Certified® to play DivX® and DivX Plus™ HD (H.264/MKV) video up to 1080p HD including premium content.

To playback DivX Plus HD content:

- To play in fast reverse or fast forward directions, press ◀◀ or ▶▶ during playback. Each time you press the ◀◀ or ▶▶, the playback speed will change.
- This TV generates original chapter point in 10% increments for 10 chapters in total, that are accessible by using the Number buttons on the remote control.

During playback, press \rightarrow to skip to the beginning of the next chapter. When \rightarrow is pressed twice in succession, it will repeat two times of above. If \rightarrow is pressed at the last chapter, playback will skip to the beginning of the next content.

Press I to skip to the beginning of the current chapter. When I is pressed twice in succession, it will skip to the beginning of the previous chapter. If I is pressed twice in succession at the first chapter, stop playing the current content and skip to the beginning of the previous content.

The Number button is used for direct jump. If the 3 button is pressed, playback will jump to the beginning of 3rd chapter. Even if the playback content has authored chapters, the Number button is used to jump directly to Auto Generated Chapter.

If the content has Authored Chapters, \mathbb{H}/\mathbb{H} are using for Authored Chapters.

NOTE:

- · Depending on the content data will not be operated.
- The playback speed (◄◄/►►) may not change depending on the stream.

Using Multi Title and Alternative Timelines Multi Title

DivX Plus HD files may contain up to 100 titles.

You can change the title (It contains same video file) by pressing the **RED** button.

When the **RED** button is pressed, it will display the title change window at the bottom on the screen (same as Subtitle or Audio change window).

The title is changed cyclically each time the **RED** button is pressed. Playback will start from start time of selected title every \blacktriangle or \blacktriangledown .

NOTE: Depending on the content data will not be operated.

Playing music files (on a DLNA CERTIFIED[™] Server or USB device)

You can listen to music from a Multi View of available files.

Multi View (USB Music)



Press ▲▼◆ to select a file or folder. P^ (or 《/ 冷)
 P~ (or 》/ ≥) buttons can be used to page up/down the Multi View when there are more files than will fit onto one screen.

NOTE: The page down function on the last page and page up function on the first page are not available.

- When you select a folder, press OK to move to the next layer. Press BACK to move back to the previous layer.
- With the desired file selected, press OK or ► (play) to start playback.

NOTE: If you highlight the file without pressing **OK**, the content is played on a **Multi View**. When **OK** is pressed, it is played in full screen mode.

Press ■ to stop playback.

NOTE:

- Depending on the file size, it may take some time for playback to begin.
- During playback, you can adjust the **SOUND** menu functions from the **Quick Menu**.

During playback:

- Press II/I ► to pause.
- To resume normal playback, press ► (play).
- PAUSE may not be available depending on the contents or DMS.
- To play in fast reverse or fast forward directions, press ◀
 or ►►. Each time you press ◀◀ or ►►, the playback speed will change.

To set the repeat mode:

1 Press QUICK to open the Quick Menu.

2 Press ▲ or ▼ to select Repeat.

B Press ◀ or ► to select Off, All or 1.

Mode	Description
Off	Files in the same folder are played back once.
All	Files in the same folder are repeatedly played back.
1	The same file is repeatedly played back.

4 Press BACK

NOTE: When in the DMS and Multi View modes, this feature cannot be used.

To select a music file from Play List

While playing a music file, you can select a different music file from the Play List.



Press QUICK to open the Quick Menu.



Press ▲ or ▼ to select Play List.

The Music List will appear.



Press ▲ or ▼ to select a file name

To display the file status information

1

Press [i+] during playback. The information will be displayed on the bottom of the screen.



Press (i+) again to remove the information.

NOTE: The information may not be correctly displayed depending on the contents or DMS.

To close the Music Player:



Press EXIT. **File Compatibility**

See page 67.

Other features

Panel Lock

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



Press **MENU** / **I** to highlight **PREFERENCES** icon.

	Ē		Q _{es}
PREFERENCES	_		
3D Setup			
Network Setup			
Teletext		Auto	
Network Lock		Off	
Panel Lock	•	Off	►
Display Settings			
AV Connection			
Energy Saving Settings			

When **Panel 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.

The timers

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.



B

4

Press **MENU** / **I** to highlight **APPLICATIONS** icon.

Press **V** to select **Programme Timers** and press **OK**.

Press ▼ if necessary to select an open timer position, then press OK. The Edit Timer menu will now appear on screen.

Press \blacktriangle and \forall to go through the list adding the details of the programme by using the number buttons and \triangleleft and \triangleright to make selections.

Edit Timer 10:50 Tue, 26	
Channel	30 CABC Channel
Date	 Tue, 26 Apr 2011
Start Time	10:49
Repeat	Off
Set Timer	Delete Timer
0-9 Input 💮 Edit	BACK Return

5 When all of the details have been entered, highlight **Edit Timer** and press **OK** to save the timer.

The ORANGE programme timer indicator on the front of the television will be lit (see page 62 for details).

PLEASE NOTE: When a timed programme is about to start, an information screen will appear offering the option of watching or cancelling the programme. The menus and other channels will not be available during the timed programme unless the programme timer is cancelled.

It will only be possible to create or edit programme timers for the currently tuned DTV input.

On Timer

The feature allows you to set the television to turn on automatically to a preset channel at a certain time of day or after a certain length of time.



In the **APPLICATIONS** menu, press **V** to select **On Timer** and press **OK**.

Press ▲ or ▼ to select Enable On Timer and press ◀ or ▶ to select On.

On Timer		
Enable On Timer	∢ On	•
Enable DTV Clock	On	
Power On Time	00:00	
Repeat	Once	
Input	DTV	
Channel	12 ABC	
Volume	20	
Time Until Power On	00:00	
Done		

3

4

Press \checkmark to select **Enable DTV Clock**, and then press \triangleleft or \triangleright to select **On** or **Off**.

Press \blacktriangle or \triangledown to go through the list adding the details of the On Timer by using the number buttons and \blacktriangleleft and \triangleright to make selections.

Power On Time (only for DTV Clock On mode): Set the time you prefer with the number buttons. Repeat (only for DTV Clock On mode): Select the desired On Timer operation (Once, Every Day, Mon-Fri, Mon-Sat, Sat-Sun).

Input: Select a video input source (ATV, DTV, EXT 1, EXT 2, HDMI 1, HDMI 2, HDMI 3, HDMI 4 or PC). Channel: Set the channel that will be tuned when the television turns on.

NOTE: When an external input is selected in the **Input** field, a channel cannot be selected.

Volume: Set the volume that will be applied when the television turns on.

Time until Power On (only for DTV Clock Off mode): Set the amount of time from now until the TV turns on using the number buttons (maximum of 12 hours).

B Press ▲ or ▼ to highlight **Done** and press **OK**.

To cancel the On Timer



In the On Timer menu, select Enable On Timer.

2 Press ◀ or ► to select Off.

Sleep Timer

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

In the APPLICATIONS menu, press ▼ to select Sleep Timer.

2 Use the number buttons to set the desired time. For example, to switch the television off in one and a half hours enter 01:30, or press ▶ / ◀ to increase/decrease in steps of 10 minutes. (Maximum time setting is 12 hours)

3

Press EXIT to finish.

4 To cancel the **Sleep Timer**, enter all zeros for the above setting.

Energy Saving Settings

Automatic Power Down

The TV will automatically turn itself off (standby) after 4 hours, if you do not operate the TV either from the remote control or the TV control panel.

In the PREFERENCES menu, press ▼ to select Energy Saving Settings and press OK.

2

- Press \blacktriangle or \blacksquare to select Automatic Power Down.
- B Press ◀ or ► to select On or Off, and press OK.

NOTE:

- This feature is set to **On** when **Location** is set to **Home**.
- 1 minute before switching to standby, a Warning message will appear.
- When the following features are set, the feature that is set for the nearest time will function.
 - Automatic Power Down
 - Sleep Timer
 - Photo Frame/Auto Power Off
 - Auto shutdown after 1 hour of inactivity (after power on by On Timer)
 - No signal auto power off (after 15 minute of no signal)

No Signal Power Down

The TV will automatically turn itself off after 15 minutes when no signal is detected. You can change the setting to Off for the following purposes:

- Low signal strength of analog channel (no signal detection)
- Only Audio L/R is connected to external input to listen to music through the TV speakers.

In the Energy Saving Settings menu, press ▲ or ▼ to select No Signal Power Down and press OK.



1

Press \blacktriangle or \triangledown to select the item you want to change and press \blacktriangleleft or \triangleright to select **On** or **Off**.

NOTE:

- Default setting is all On.
- A warning message will appear 1 minute before turning off.

English

Digital on-screen information and Programme Guide

When viewing in **digital** mode, the on-screen information and programme guide provide access to programme details for all available channels.

	Information
1	Press (i+), the information screen will appear giving details of the channel and programme currently being viewed. Display Example
	8888 ITVI London ASTRA 19.2E ↔ â , 4 6.00 Thu, 11 Oct © ⑦ ∬ AD English 20] Side by Side
	Now MLB Young's two-run triple leads AL over NL 6:00-8:00 HD 16:9
	Next World News and Sports 8:00- 9:00 Also MLB Young's two-run triple leads AL over NL

Press \blacktriangle or \triangledown to select the "**Now**", "**Next**" or "**Also**" information guide.

The selected information content will appear.

To display More Information

Press QUICK to open the Quick Menu.



Press **V** to highlight **More Information** and press **OK**.

On-screen Information icons

	lcon	Description
Service info		Service type (TV, Radio, Text)
	- @ +	Skip
Audio info	0	Mono
	8	Stereo
	•0	Dual mono
	8	Multichannel
	D	Dolby Digital
	D+	Dolby Digital+
	HE-AAC	Audio Coding
	AD	Audio Description
Audio/Subtitle info	Ń	For Hard of Hearing
3D info	3D 3D→2D	Frame Packing Side by Side Top and Bottom
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
		Teletext
		Subtitle (Single, Multi)
	山 日	Audio track (Mono, Multi)
	0, 4 – 18	Parental rating
	\sim	Encrypted
Timer info	\checkmark	Reminder

1

Guide

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

Thu 6				10:	50 Tue, 6 Apr
TV	•• 18:00	18:30	19:00	19:30	20:00
6 M6	09 LES SIM	TS SIM	06 TOP I	MODEL	
9 W9		ERLAND 53	SUMMERLAND	. 44	.ES SIM
11 NT1	03 Nicky La	32 Street f	ight 🗐 Drago	n B 29 Drago	on B 🖾 K 2000
31 PARIS PREMIERE	05 MA SOR	CIE 39 HA	PPY DAYS 🗐 I	IAPPY DAYS	
34 AB1	00 Evamag 27	21 jump stre	et 14 Jerry Spr	inger Show 5	City guys 🖬 L
800 FlowerGd 6Mbs					
801 FlowerGd 4Mbs					
802 FlowerGd 2Mbs					
804 Codec 4:3					
806 ITV1					
807 ITV3					
808 ITV2					
809 ITV4					

You can switch the time scale to 3 or 6 hours by pressing the GREEN button.

- 2 Press \blacktriangleleft or \blacktriangleright for information on other programmes scheduled for the channel selected. To highlight the first programme in the genre grid, press the RED button.
- B For details of other programmes currently available, press \blacktriangle and ∇ to scroll up and down the channel list. As channels are selected, details of the programme currently being broadcast will appear. Press ◀ or ► to view information for future programmes.
- 4 For information on a highlighted programme, press (i+).
- 5 To set the timer for that programme, press the **BLUE** button to bring up the Programme Timers menu.
- 6 Press Pv to advance to the next page, or press PA to go back to the previous page.

Genre selection/searching

From the Guide screen, you can use the genre selection and search features.

1 In the Guide screen, press QUICK.

2

3

Press **A** or **V** to highlight **Genre Colour** in the **Quick** Menu and press OK.

Genre Colour Movies					
	×				1
Colour Setup					

- With the focus on a particular genre, press the desired coloured button to assign. Four colours will be available to set. Press BACK to go back to the Guide screen.

Digital settings – parental control

In order to prevent viewing of unsuitable films and programmes, channels and menus can be locked in digital mode. These can then only be accessed with a security code PIN.

Parental PIN Setup

1

Press **MENU** / **I** to highlight **SETUP** icon.

2

4

Press \blacktriangle or \blacksquare to select **DTV Settings** and press **OK**.

SETUP				
Menu Language	English			
Country	Germany			
Ant/Cable In	Antenna			
Auto Tuning				
ATV Manual Tuning				
DTV Manual Tuning				
DTV Settings				
Quick Setup				

Press ▲ or ▼ to highlight Parental PIN Setup and press OK.

DTV Settings				
Channels				
Subtitle and Audio				
Parental PIN Setup				
Parental Control				
Local Time Setting				
Standby Channel Update	Off			
DVB Character Set	Standard			
Dynamic Scan	On			

Using the number buttons enter a four digit number. Once entered you will be prompted to confirm by entering again.

PIN Setting				
New PIN:	*	*	*	*
Confirm PIN:				

The PIN number is now set.

If the PIN code has been set, when **Auto Tuning** and **Reset TV** are executed, entering the PIN will be necessary. "0000" is not acceptable.

Parental Setup

The Parental Control feature allows you to block programmes according to their rating levels. If a PIN has been set, you will need to enter it before adjusting the level.



2

In the **DTV Settings** menu, press ▲ or ▼ to select **Parental Control** and press **OK**.

Use **◄** or **▶** to choose an option (**None** or an age setting (4-17 or 4-18 depending on the **Country** setting)).

Parental Control			
Parental Setup	•	None	►

To view blocked programmes, enter the PIN. To reactivate the Parental Control, turn the TV off and then on again.

Network Lock

You can **use** the Network Lock feature to prevent the Web browser from launching. When this feature is set to **On**, PIN input will be necessary to use YouTube.

This feature will be grayed out until a PIN is set.

Press MENU / ◀► to highlight PREFERENCES icon.



Press ▲ or ▼to select Network Lock.

PREFERENCES 3D Setup	E	***	0 ₀
Network Setup			
Teletext		Auto	
Network Lock	•	Off	►
Panel Lock		Off	
Display Settings			
AV Connection			
Energy Saving Settings			

B Press ◀ or ► to select On.

To unlock the Network:



Select Off in step 3 above.

Digital settings – Channel Options

Ор	tions
	Selecting favourite channels
	the Quick Menu / Channel Options menu, it is possible reate a list of the digital channels that are watched most. Press LIST / ◀▶ to select the Favourite Channel list.
1	Select a channel you want to add to your favourite list.
2	Press QUICK to open the Quick Menu.
3	Press ▼ to select Channel Options and press OK .
4	Press ► to select the favourite list (Fav.).
	Channel Options Fav. � ⊷ û ■ ■ ■
5	Press OK to select the ones required. A tick will appear in the box as they are selected.
6	Repeat steps 1 through 5 for other channels.
7	When all favourites have been selected, press EXIT .
	Favourite Channel Lists
1	Press LIST to display Channel Lists.
2	Press ◀or ▶ to select Favourite Channels. The number of favourites available depends on how many lists have been created.
	Channel Lists ← Favourites ● 6 M6 ● 9 W9 ● 11 NT1

This feature allows you to set channels that will be skipped when P or P are used to tune. ก Select the channel you want to skip in your channel list. 2 From the Quick Menu, press **V** to select Channel Options and press OK. 3 Press repeatedly to highlight the skip (<>>) box. 4 Press **OK** to select. A tick will appear in the box. 5 Repeat steps 1 through 4 for other channels. 6 Press EXIT. **NOTE:** Skipped channels cannot be selected by **P** or **P** but still be accessed by direct number entry (when tuned a • icon will be displayed in the banner to indicate as a skipped channel). Locking channels Locking Channels stops the viewing of digital channels, and they can only be accessed by entering the PIN. n Select the channel you want to lock in your channel list.

Skip channels

- From the Quick Menu, press ▼ to select Channel Options and press OK.
- B Press \blacktriangleright repeatedly to highlight the lock (\bigcirc) box.
- Press **OK** to select. A tick will appear in the box.

If a PIN has already been set, PIN entry will be required to set the locked channels.

- **5** Repeat steps 1 through 4 for other channels.
- 6 Press EXIT.

7

From this point on, when any of the channels in the **Locked Channel** list are selected, the PIN must be entered before they can be accessed.

Press \blacktriangle or $igvee$ to highlight a channel and provide the set of the set	ess OK to
watch.	

٦

B

31 PARIS PREMIERE

34 AB1

51 ITV1

Digital settings – other settings

Subtitles

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



In the **DTV Settings** menu, press ▲ or ▼ to select **Subtitle and Audio** and press **OK**.

2

Press $\mathbf{\nabla}$ to select **Subtitle Display** and use $\mathbf{\triangleleft}$ or $\mathbf{\triangleright}$ to select **On** or **Off**.

Subtitle and Audio				
Subtitle Display	•	Off	¥	
Subtitle Type		Normal		
Primary Subtitle Language		English		
Secondary Subtitle Language		English		
Audio Type		Normal		
Primary Audio Language		English		
Secondary Audio Language		English		

B Press ▲ or ▼ to select **Primary Subtitle Language** or **Secondary Subtitle Language** and press ◀ or ▶ to select an option.

The **SUBTITLE** button can be used to select subtitle on or off for the current channel only and to select the subtitle language if more than one subtitle is available.

Audio languages

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

- In the Subtitle and Audio menu, press ▲ or ▼ to select Audio Type and press ◀ or ▶ to select Normal or For Hard of Hearing.
- Press ▲ or ▼ to select Primary Audio Language or Secondary Audio Language and press ◀ or ▶ to select an option.

If more than one soundtrack is available, use the $\mathbb{O}I/\mathbb{I}$ button to select between them.

Common Interface

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 information, see a service provider.

- 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 has been inserted.
- Press MENU / **I** to highlight SETUP icon.
- B Press ▲ or ▼ to select DTV Settings and press OK.
- Press ▲ or ▼ to select Common Interface and press OK.
- **5** Details of the CAM should now be available.

NOTE:

- Software update of a CI Plus CAM may occur automatically if instigated by the broadcaster. This could cause the cancellation of any Reminders/Recordings during this process.
- Some CI or CI+ CAM may not be supported.
- Cl+ operation is not guaranteed except for Canal Ready DTT services on suffix FC models.

Software Upgrade and Licences

Searching for New Software

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



In the SETUP menu, press ▲ or ▼ to select Software Upgrade and press OK.



Press \blacktriangle or \blacksquare to select **Search for New Software**.

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.

Network Upgrade

TOSHIBA may offer upgrades for the TV's software in the future. The TV's software is upgraded via the Network.

Before downloading software:

Configure your TV to connect to the Internet.

NOTE: While the upgrade is being performed, you will not be able to watch the TV.



In the SETUP menu, press ▲ or ▼ to select Software Upgrade and press OK.

Press ▲ or ▼ to select Network Upgrade and press OK.

NOTE: If the network is not available, a warning message will appear.

3 The TV software upgrade will start when download succeeds.

Software Licences

The licences for the software used in this television are available for viewing.



In the SETUP menu, press \blacktriangle or \checkmark to select Software Licences and press OK.

A screen will appear displaying all the licensing information required for the televisions software.

System Information and Reset TV

System Information

This feature can be used to check the version of software currently installed. When in DTV mode, it includes additional diagnostic information such as signal strength, signal quality, centre freauency. modulation. etc.



In the **SETUP** menu, press \blacktriangle or \triangledown to select **System** Information.



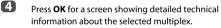
Press OK to display the System Information.

System Informati	on				
	TOSHIBA				
	2011				
2.1.2	6.0 Feb 19 2011 - 15:5	6:50 FW:13			
WEAK	AVERAGE	STRONG			
Ch25		GOOD			



П

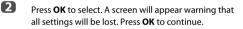
For information about the signal quality of a particular multiplex, press \blacktriangle or \blacktriangledown to select that multiplex.



Reset TV

Selecting **Reset TV** will reset all TV settings, including saved channels, to their original factory values.

In the SETUP menu, press \blacktriangle or \blacksquare to select Reset TV.



When the set powers back on, the **Quick Setup** screen will appear. Press **OK** to advance the setup and perform an auto tune. (See "Quick Setup" section on page 14.)

PC Settings

Horizontal and Vertical Position

Connect the PC (as shown in the 'Connecting a computer' section) and ensure that a picture is showing on the television screen. The picture position may now be adjusted to suit personal preference.



Press A or V to select Display Settings and press OK.

Press \blacktriangle or \triangledown to select **PC Setting** and press **OK**.

Display Settings	
Auto Format	On
4:3 Stretch	Off
Picture Position	
PC Settings	

4

B

Press \blacktriangle or \triangledown to select an option and press \blacktriangleleft or \triangleright to adjust the settings.

PC Settings				
Horizontal Position	0Ī			
Vertical Position	0 ————————————————————————————————————			
Clock Phase	0 ————————————————————————————————————			
Sampling Clock	0 ————————————————————————————————————			
Reset				

Clock Phase

The **Clock Phase** matches the PC signal with the LCD display. Adjusting this can clear horizontal stripes and picture blur.

1

In the **Display Settings** menu, press **A** or **V** to select PC Settings and press OK.



Press ▲ or ▼ to select Clock Phase.

Press ◀ or ▶ to adjust until the picture clears.

Sampling Clock

Adjusting the **Sampling Clock** alters the number of pulses per scan, this will clear vertical lines on the screen.

- ก In the **Display Settings** menu, press **A** or **V** to select PC Settings and press OK.
- 2 Press **A** or **V** to select **Sampling Clock**.
- R Press \blacktriangleleft or \triangleright to adjust until the picture clears.

Reset

Use Reset to return all items to the original factory settings.

- 1 In the **Display Settings** menu, press **A** or **V** to select PC Settings and press OK.
- 2 Press ▲ or ▼ to select **Reset** and press OK.

NOTE: When a PC is connected using HDMI, none of these functions will be available.

The screen is disrupted momentarily when adjusting PC Settings. This is not a sign of malfunction.

The default settings and adjustment ranges may vary depending on the input signal format.

Input selection and AV connections

See page 9 for a detailed image showing recommended connections.

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 O until the picture from connected equipment is shown.

Input selection

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



By pressing ⊕ on the remote control or TV, a list will appear on screen showing all inputs and external equipment.

Pressing ⊕ on the remote control



Inputs
TV
- ⊕ 1
- ∋ 2
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC

Inputs DTV TV *
DTV Radio *
DTV Text *
-⊕ 1
- €) 2
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC
ATV

* If radio or text channels are currently available for DTV.

HDMI[®] displays equipment connected to *Input HDMI* on the back or side of the television.

PC displays a computer connected to *Input RGB/PC* on the back of the television.

External input skip

This feature is designed to make input selection more convenient by allowing you to skip unused inputs.

Press MENU / **I** to highlight **PREFERENCES** icon.



Press \blacktriangle or \blacksquare to select **AV Connection**.

	e 🔝 O _o				
PREFERENCES					
3D Setup					
Network Setup					
Teletext	Auto				
Network Lock	Off				
Panel Lock	Off				
Display Settings					
AV Connection					
Energy Saving Settings					



Press OK to display the AV Connection menu.



Press \blacktriangle or \triangledown to highlight **Input Labeling** and press **OK**.

AV Connection Input Labeling Digital Audio Output

Press ▲ or ▼ to select the input you want to skip, and then press the **RED** button to turn on the skip.

Input Labeling Input	Label		-@+
EXT 1	•	 •	
EXT 2			
HDMI 1			
HDMI 2			
HDMI 3			
HDMI 4			
PC			



To turn off the skip, press the **RED** button again.

The input set to Skip is grayed out in the Input Selection window and is skipped over when you press on the remote control.

Labeling video input sources

These input labels are shown in the input selector. You can label video inputs according to the devices you have connected to the TV



Press **MENU** / **I** to highlight **PREFERENCES** icon.

3

Press \blacktriangle or \triangledown to select **AV Connection** and press **OK**. Press \blacktriangle or \triangledown to select **Input Labeling** and press **OK**.

Input Labeling Input	Label		-@+
EXT 1	•	 •	
EXT 2			
HDMI 1			
HDMI 2			
HDMI 3			
HDMI 4			
PC			

Press ▲ or ▼ to highlight the item you want to label, and then press ◀ or ▶ to select --, Amplifier, Cable, DVD, Game, PC, Recorder, Satellite or VCR, or press the GREEN button to select User Input.

NOTE: When User Input is selected by pressing the GREEN button, the Software Keyboard window will appear. Input the desired characters (10 characters or less) by using the Software Keyboard (see page 38) or using the number buttons for a number input. To save your settings, press the BLUE button.

5

4

Repeat step 4 for other video inputs.

Digital Audio Output

When connecting a surround sound amplifier to the digital audio output (Sony/Philips Digital Interface Format [S/PDIF]), the following options can be selected or adjusted.

- In the **PREFERENCES** menu, press ▲ or ▼ to select **AV Connection** and press **OK**.
- Press ▲ or ▼ to select Digital Audio Output.

AV Connection Input Labeling

Digital Audio Output

Press OK to display Digital Audio Output menu and press ▲ or ▼ to select an option.

Audio Format:

Press **d** or **b** to select **PCM** or **Auto**.

- **PCM:** This mode outputs PCM format to the digital audio output socket.
- Auto: This mode outputs Dolby Digital (if available) or PCM to the digital audio output socket. Dolby Digital → Dolby Digital Dolby Digital Plus → Dolby Digital MPEG → PCM HE-AAC → Dolby Digital

Audio Delay:

Press **d** or **b** to select **Auto** or **Manual**.

- Auto: This mode automatically adjusts the audio timing to meet the video timing. NOTE: The time lag might be large between the image and sound depending on the connected equipment (amplifier etc.). In that case, select Manual.
- Manual:You can manually adjust the audio signal timing to meet the video signal timing.

Delay Adjustment:

Press \blacktriangleleft or \blacktriangleright to adjust the audio signal timing (0 – 250ms) to meet the video signal timing.

NOTE:

- This feature is grayed out when **Audio Delay** is in **Auto**.
- A time lag will occur when the video signal or audio signal is changed. Adjust the timing accordingly.
- When adjusting the timing, turn down the volume of the AV equipment used as far as possible.
 Depending on the equipment, noise etc. may occur when the signal is changed.
- Depending on the connected equipment (amplifier, etc.), adjustment may not be possible.
- When the optical digital output setting (Auto+>PCM) is changed, it may be necessary to adjust the timing again.
- Do not use other than for audio output from the AV amplifier, etc. (Malfunction may occur)

English

Text services

This television has a multi-page text memory, which takes a few moments to load. It offers two *Modes* of viewing text – **Auto** will display **Fastext**, if available. **List** will save your four favourite pages.

Selecting modes

The text character set will be automatically chosen by the language setting in the **SETUP** menu.

Press **MENU** / **I** to highlight **PREFERENCES** icon.

Press ▲ or ▼ to select **Teletext**, and then press ◀ or ► to select **Auto** or **List**.

		* * *	0 ₀
PREFERENCES			
3D Setup			
Network Setup			
Teletext	•	Auto	►
Network Lock		Off	
Panel Lock		Off	
Display Settings			
AV Connection			
Energy Saving Settings			

Text information

The TEXT button:

To view text services press **TEXT**. Press again to superimpose the text over a normal broadcast picture and again to return to normal viewing. Channels 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^{\wedge} to advance to the next page and P^{\vee} to go back to the previous page.

Sub-pages

The pages on the screen will dynamically update as subpages are received.

If you open a page containing sub-pages, the sub-pages are automatically displayed in sequence. To quit automatic sub-page change, press \blacktriangleleft or \blacktriangleright .

Once selected, the sub-page you are viewing will be highlighted and, as the television loads any additional subpages, the colour of the numbers will change, indicating that these pages have been loaded.

These sub-pages will remain available to view until another page is chosen or, in normal TV mode, the channel is changed.

Navigating pages using Auto

If **Fastext** is available, 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.

Navigating pages using LIST

The four coloured choices at the bottom of the screen are numbers – 100, 101, 102 and 103, which have been programmed into the television's memory. To view these pages, press the relevant coloured buttons.

To change these saved pages, press the relevant coloured button and enter the 3 digit number. This number will change in the top left of the screen and in the coloured highlight.

Press OK to save. Whenever OK is pressed, all four page numbers showing at the bottom will be saved and the previous ones will be lost.

NOTE: The video signal from the external inputs (EXT-1 and EXT-2) is not saved.

If **OK** is not pressed, the selection will be forgotten when the channel is changed.

Other pages may be viewed by entering the 3 digit page number – but DO NOT press **OK** or these pages will be saved.

Control buttons

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

i To display the index/initial page:

Press (a) to access the index/initial page. The one displayed is dependant on the broadcaster.

TEXT To display a page of text:

Press **TEXT** to display text. Press again to superimpose text over a normal picture. Press again to return to normal television viewing. Channels cannot be changed until this has been done.

To reveal concealed text:

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

EX To hold a wanted page:

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

E To enlarge the text display size:

Press \equiv 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.

⑦/≡ To temporarily erase the text screen:

Press $\textcircled{}/[\Xi X]$ once to erase the text screen temporarily. To recall the text screen, press the button again.

To display news flashes:

Select the news flash page for the chosen text service (see the index page of text service). The news flashes will be displayed as and when they are broadcast.

Remember to cancel text before changing channels - press the TEXT button twice.

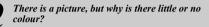
Questions and Answers

Below are the answers to some of the most common queries.



Why is there no sound or picture?

Check the television is not in standby mode. Check the mains plug and all mains connections.



When using an **external** source, for instance, a poor quality video tape, if there is little or no colour, improvements may sometimes be achieved. The colour is factory set to **Auto** to automatically display the best colour system.

To check that you have the best colour:



With the external source playing, select **Colour System** from the **SETUP** menu.

SETUP			
Menu Language		English	
Country	G	Germany	
Colour System	•	Auto	• 7

With ◀ or ▶ choose between Auto, PAL, SECAM, NTSC 4.43 or NTSC 3.58.



2

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 shown on page 9, and then select the correct input by pressing -

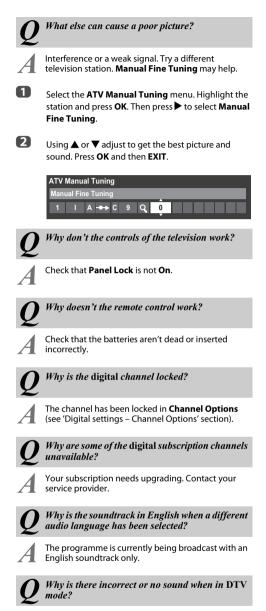


Why is there a picture but no sound?

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.

Check shared audio settings.





Press O[/] to ensure the hard of hearing option has not been selected.

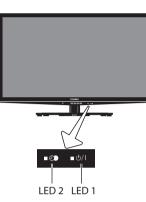


Connect the source via a SCART lead and play. Select Colour System from the SETUP menu. Set the Colour to Auto and exit. Go to the **PICTURE** menu and adjust the tint. Why don't the devices connected via HDMI operate properly? Make sure to use cables with the HDMI logo HDMI[°] (see page 10). Some early HDMI equipment may not work properly with the latest HDMI TV products, due to new standard adoption. Why don't the networked devices work? The LAN cables are not connected properly or at all. Connect all cables (see page 12). Make sure your network address is set up correctly (see page 36). Why doesn't the wireless network work? Make sure the TOSHIBA Dual Band WLAN Adaptor is used (see page 12). Check that the AP is powered on. Why doesn't the Media Player feature operate? Make sure that devices are connected correctly. Incorrect behaviour may occur with a USB Hub connection. Check your network setup if using DLNA CERTIFIED™ Why are not 3D images displayed? Ensure that there is no object blocking the infrared signals in the infrared reception part of television and 3D glasses. If the infrared data communication between the television and 3D glasses is lost for 5 minutes, the power of 3D glasses is turned off.

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What do the LEDs on the front of the television indicate?

Check the table below.



LED inc	dication	Condition	Solution
LED-1	LED-2	Condition	Solution
Green	Orange	Power ON Programme Timer is set	-
Green	OFF	Power ON Programme Timer is NOT set	-
Red	Orange	Power OFF (Standby) Programme Timer is set	-
Red	OFF	Power OFF (Standby) Programme Timer is NOT set	-
Orange	Orange	Active Standby (for OAD) Programme Timer is set	-
Orange	OFF	Active Standby (for OAD) Programme Timer is NOT set	-
Orange	Green	For Service SW Upgrade in Progress	-
Red	OFF	For Service SW Upgrade Failed	-
Green	OFF	For Service SW Upgrade Successful	-

Other problems

If your TV's problem is not addressed in this Questions and Answers section or the recommended solution has not worked, do one of the following:

- 1 Turn off your TV. After 30 seconds, turn it on.
- 2 Turn off the TV and unplug the power cord. After 1 minute, plug the power cord in and turn on the TV.
- 3 Perform the Reset Factory Defaults procedure (see page 54).

License Information

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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 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.





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.

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	Ground	10	Ground	15	NC

Signal information for Mini D-sub 15 pin connector

* NC = not connected

Acceptable PC signals through the PC terminal

The PC input on this TV only accepts signal formats which are compliant with VESA-DMT as shown in the table below. Since some PCs input signals which are different from the resolution and frequency described in the table below, the following phenomenon may occur; incorrect display, false format detection, picture position failure, blur, or judder. In this case, set the monitor output format on your PC to conform to a signal in the table below.

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency	VESA Standard (DMT)
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz	•
		72.809Hz	37.861kHz	31.500MHz	•
		75.000Hz	37.500kHz	31.500MHz	•
SVGA	800 × 600	56.250Hz	35.156kHz	36.000MHz	•
		60.317Hz	37.879kHz	40.000MHz	•
		72.188Hz	48.077kHz	50.000MHz	•
		75.000Hz	46.875kHz	49.500MHz	•
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz	•
		70.069Hz	56.476kHz	75.000MHz	•
		75.029Hz	60.023kHz	78.750MHz	•
WXGA	1280 × 768	59.995Hz	47.396kHz	68.250MHz	•
		59.870Hz	47.776kHz	79.500MHz	•
		74.893Hz	60.289kHz	102.250MHz	•
	1360 × 768	60.015Hz	47.712kHz	85.500MHz	•
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz	•
		75.025Hz	79.976kHz	135.000MHz	•
1080p	1920 × 1080p	60.000Hz	67.500Hz	148.500MHz	

Acceptable video or PC signals through the HDMI terminals

The HDMI inputs on this TV only accept VGA, SVGA, XGA, WXGA, and SXGA signal formats which are compliant with VESA as shown in the table below. Since some PCs and HDMI or DVI devices input signals which are different from the resolution and frequency described in the table below, the following phenomenon may occur; incorrect display, false format detection, picture position failure, blur, or judder. In this case, set the monitor output format on your PC, HDMI or DVI device to conform to a signal in the table below.

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency	VESA Standard
480i	720 × 480i	59.940/60.000Hz	15.734/15.750kHz	27.000/27.027MHz	
576i	720 × 576i	50.000Hz	15.625kHz	27.000MHz	
480p	720 × 480p	59.940/60.000Hz	31.469/31.500kHz	27.000/27.027MHz	
576p	720 × 576p	50.000Hz	31.250kHz	27.000MHz	
1080i	1920 × 1080i	59.940/60.000Hz	33.716/33.750kHz	74.176/74.250MHz	
1080i	1920 × 1080i	50.000Hz	28.125kHz	74.250MHz	
720p	1280 × 720p	59.940/60.000Hz	44.955/45.000kHz	74.176/74.250MHz	
720p	1280 × 720p	50.000Hz	37.500kHz	74.250MHz	
1080p	1920 × 1080p	59.940/60.000Hz	67.433/67.500kHz	148.352/148.500MHz	
1080p	1920 × 1080p	50.000Hz	56.250kHz	148.500MHz	
1080p	1920 × 1080p	24.000Hz	27.000kHz	74.250MHz	
VGA	640 × 480	59.940/60.000Hz	31.469/31.500kHz	25.175/25.200MHz	•
		72.809Hz	37.861kHz	37.861kHz 31.500MHz	
		75.000Hz	37.500kHz	31.500MHz	•
SVGA	800 × 600	56.250Hz	35.156kHz	36.000MHz	•
		60.317Hz	37.879kHz	40.000MHz	•
		72.188Hz	48.077kHz	50.000MHz	•
		75.000Hz	46.875kHz	49.500MHz	•
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz	•
		70.069Hz	56.476kHz	75.000MHz	•
		75.029Hz	60.023kHz	78.750MHz	•
WXGA	1280 × 768	59.995Hz	47.396kHz	68.250MHz	•
		59.870Hz 47.776kHz 79.500MHz		79.500MHz	•
		74.893Hz	60.289kHz	102.250MHz	•
	1360 × 768	60.015Hz	47.712kHz	85.500MHz	•
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz	•
		75.025Hz	79.976kHz	135.000MHz	•

Media Player Supported Format

Media Player	Media Format	File Extention	Video codec	Audio codec	USB	DMS	Note
Photo	JPEG	.jpg .jpeg	JPEG	yes yes		yes	<usb> Data compatibility: JPEG Exif ver 2.2 Maximum viewable resolution: 4096 × 4096 (HW decode) 16384 × 16384 (SW decode) Maximum photo size: 9 MB Maximum number of files: 1000 / folder <dms> Maximum viewable resolution:</dms></usb>
	BMP	.bmp	ВМР	-	yes	no	4096 × 4096
Movie	AVI	.avi	MPEG-2 MPEG-4 part2 H.264 (MPEG-4 AVC) DivX Xvid	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM ADPCM MPEG-2/4 LC AAC MPEG-4 HE-AAC	yes	no	<usb> Maximum number of files: 1000 / folder Maximum viewable resolution: •Motion-JPEG:640 × 480 •Other:1920 × 1080</usb>
	MPEG-2 PS MPEG-2 TS	.mpg .mpeg .ts .trp .tp	MPEG-1 Video (MPEG-2 PS/MPEG-2 VOB) MPEG-2 Video H.264 (MPEG-4 AVC) (MPEG-2 TS only) VC-1(WMV9) (MPEG-2 TS only)	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM MPEG-4 LC AAC (MPEG-2 TS only) MPEG-4 HE-AAC	yes	yes	*) Some files may not be played.
	MPEG-2 VOB	.vob		(MPEG-2 TS only)		no	
	MOV	.mov	H.264 (MPEG-4 AVC) MPEG-4 part2	MPEG-1/2 Layer3 MPEG-2/4 LC AAC	yes	no	
	MP4	.mp4 .m4v	H.264 (MPEG-4 AVC) MPEG-4 part12,14	MPEG-4 HE-AAC	yes	yes	
	ASF	.asf .wmv	VC-1 (WMV9)	WMA7/8/9 Std WMA9 Pro	yes	yes	
	DivX	.divx .div	DivX 3,4,5,6	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) PCM	yes	no	
	Xvid	.xvid	Xvid	ADPCM			
	MKV	.mkv	MPEG-1 Video MPEG-2 Video MPEG-4 part2 H.264 (MPEG-4 AVC)	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM MPEG-2/4 LC AAC MPEG-4 HE-AAC	yes	no	
	RealMedia	.rm .rmvb	RealVideo 8,9,10	Dolby Digital (AC-3) MPEG-2/4 LC AAC	yes	no	
	Flash Video (FLV1)	.flv .swf	Sorenson H.263 (FLV1) H.264 (MPEG-4 AVC)	MPEG-1/2 Layer3 MPEG-2/4 LC AAC L-PCM ADPCM	yes	no	

Media Player	Media Format	File Extention	Video codec	Audio codec	USB	DMS	Note
Movie	3GPP	.3gp	MPEG-4 part2 H.264 (MPEG-4 AVC)	MPEG-2/4 LC AAC AMR	yes	no	
	Motion JPEG	.avi .mp4 .mkv	JPEG	L-PCM ADPCM	yes	no	
	AVC HD (MPEG-2 TS)	.mts .m2ts	H.264 (MPEG-4 AVC)	L-PCM Dolby Digital (AC-3)	yes	yes	
Music	MP1	.mp1	-	MPEG-1/2 Layer-1	yes	no	<usb> Maximum number of files: 1000 / folder</usb>
	MP2	.mp2	-	MPEG-1/2 Layer-2	yes	no	
	MP3	.mp3	-	MPEG-1/2 Layer-3	yes	yes	
	WMA	.wma	_	WMA7/8/9/ Std WMA9 Pro	yes	yes	
	WAV	.wav	-	LPCM ADPCM MPEG-1/2 Layer-3 WMA7/8/9/ Std WMA9 Pro	yes	no	
	МКА	.mkv	_	MPEG-1/2 Layer-2 MPEG-1/2 Layer-3 Dolby Digital (AC-3) MPEG-2/4 LC AAC	yes	no	
	OGG	.ogg .oga	_	OGG Vorbis (2ch only)	yes	no	

3D Support Format (HDMI)

Resolution	Aspect ratio	V.Fraquency	H.Fraquency	Pixel Clock Frequency	3D Structure
720×480p	16:9	59.940/60.000Hz	31.469/31.500kHz	27.000/27.027MHz	Side by Side (Full)
		۱ <u>۱</u>	l i	ļ İ	Side by Side (Half)
	<u> </u>	·	l i	l	Top and Bottom
720×576p	16:9	50.000Hz	31.250kHz	27.000MHz	Side by Side (Full)
			l	ļ l	Side by Side (Half)
	<u> </u>	·	l i	l	Top and Bottom
1280×720p	16:9	59.940/60.000Hz	90.0/89.91kHz	148.352/148.500MHz	Frame Packing
			44.955/45.000kHz	74.176/74.250MHz	Side by Side (Half)
			۱ <u> </u>		Top and Bottom
		50.000Hz	75.000kHz	148.500MHz	Frame Packing
		۱ ا	37.500kHz	74.250MHz	Side by Side (Half)
	<u> </u>	·	l i	l	Top and Bottom
1920 × 1080i	16:9	59.940/60.000Hz	33.716/33.750kHz	74.176/74.250MHz	Side by Side (Half)
			۱ <u> </u>		Top and Bottom
i		50.000Hz	28.125kHz	74.250MHz	Side by Side (Half)
	l		۱ <u> </u>		Top and Bottom
1920×1080p	16:9	24.000Hz	54.000kHz	148.500MHz	Frame Packing
			27.000kHz	74.250MHz	Side by Side (Half)
			۱ <u> </u>		Top and Bottom
		30.000Hz	67.433/67.500kHz	148.352/148.500MHz	Frame Packing
		۱ ا	33.716/33.750kHz	74.176/74.250MHz	Side by Side (Half)
			۱ <u> </u>	<u> </u>	Top and Bottom
		50.000Hz	56.250kHz	148.500MHz	Side by Side (Half)
		·	۱ <u> </u>	<u> </u>	Top and Bottom
		59.940/60.000Hz	67.433/67.500kHz	148.352/148.500MHz	Side by Side (Half)
i	ļ		l i		Top and Bottom

3D Support Format (DTV)

Video Format	Aspect ratio	V.Fraquency	3D Structure	
480i, 480p	16:9	59.940/60.000Hz	Side by Side (Half)	
			Top and Bottom	
576i, 576p	16:9	50.000Hz	Side by Side (Half)	
			Top and Bottom	
720p	16:9	59.940/60.000Hz	Side by Side (Half)	
			Top and Bottom	
		50.000Hz	Side by Side (Half)	
			Top and Bottom	
1080i	16:9	59.940/60.000Hz	Side by Side (Half)	
			Top and Bottom	
		50.000Hz	Side by Side (Half)	
			Top and Bottom	
1080p	16:9	24.000Hz	Side by Side (Half)	
			Top and Bottom	
		30.000Hz	Side by Side (Half)	
				Top and Bottom
		50.000Hz	Side by Side (Half)	
			Top and Bottom	
		59.940/60.000Hz	Side by Side (Half)	
			Top and Bottom	

* Side by Side (Full) is composed of left and right stereoscopic pictures that each size is equal to 2D.

Side by Side (Full)

2D Video

L R 3D Video

Side by Side (Half)





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English

Receiving systems

Receiving systems						
DVB-T Broad	cast systems/chani	nels	Broadcas	t systems/channels		
UK	UHF 21-68		PAL-I	UHF UK21-UK69		
France	VHF 05-10 (VHF 0 UHF 21-69	01-05)	PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41		
Germany	VHF 05-12 UHF 21-69		SECAM-L	UHF F21-F69 VHF F1-F10, B-Q		
Austria	VHF 05-12 UHF 21-69		SECAM-D	/K UHF R21-R69 VHF R1-R12		
Switzerland	VHF 05-12 UHF 21-69					
Italy	VHF 05-12 (D,E,F UHF 21-69	,G,H,H1,	,H2)			
Spain	UHF 21-69					
Nederlands	VHF 05-12 UHF 21-69					
Greece	VHF 05-12 UHF 21-69					
DVB-C Broad	lcast systems					
Video Input	PAL, SECAM, NTS	SC 3.58/-	4.43			
External co	nnections					
EXT 1	Input/Output	21-pin	SCART	RGB, A/V input AV out, TV out		
EXT 2	Input	Phono Phono Phono	jack	Y, P _B /C _B , P _R /C _R Video (Y is shared) Audio L + R (shared)		
HDMI 1/2/3/4 Input		HDMI® compliant HDCP compliant				
PC	Input	Mini D	-sub 15-pin	Analogue		
Digital Audio Output (S/PDIF)		Optical				
LAN port	RJ-45					
USB 1/USB 2	Media Player Interface version: USB 2.0 USB class: Mass Storage File system: FAT16 and FAT32					
USB 2 port	Wireless LAN adaptor ready for a home network, IEEE802.11a/b/g/n compatible					
Headphone	3.5mm stereo					
Stereo	A2, Nicam 2 carrier system					
Visible Screen Size (approx.)		32 40 46	1	80cm 02cm 17cm		
Display		16:9				
Sound outp (at 10% disto	Main:	1	0W + 10W			

Power consumption (approx.)	32TL 40TL 46TL	91W 113W 134W
Standby power consumption (approx.)	0.3W	
On-mode power consumption* (approx.)	32TL 40TL 46TL	55.5W 75W 81W
Average annual energy consumption** (approx.)	32TL 40TL 46TL	81kWh/y 109.5kWh/y 118.3kWh/y

* Tested in accordance with IEC 62087-BD Ed. 2.0:2008.

** Operating 4 hours a day and 365 days a year.

Dimensions (approx.)	32TL 40TL 46TL (Height dimer	63cm (H) 70cm (H)	74cm (W) 24cm (D) 92cm (W) 24cm (D) 106cm (W) 29cm (D) les foot stand)		
Weight (approx.)	32TL 40TL 46TL	10.5kg 14.5kg 16.5kg			
Operating condition	Temperature 5°C - 35°C (41°F - 94°F) Humidity 20 - 80% (non-condensing)				
Supplied accessories	 Remote control CT-90388 2 batteries (AA, IEC R6 1.5V) 'P' Clip/Screw (for TV mounting) See page 5. 4 spacers for wall mounting 				
Optional accessories	 Toshiba 3E TOSHIBA E WLM-20U2 	Jual Band V	VLAN Adaptor		

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