

USER MANUAL

L64** Digital Series

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During the life of your TV firmware updates will be made available to ensure that your TV maintains optimum performance:

If your TV is connected to the internet, firmware will be automatically made available. If your TV is not connected to the internet, you can download the latest version of firmware from www.toshiba-om.net/firmware.php

*Some features are limited due to local legislation and may not be available in all countries.

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 10 cm clearance around all the edges when wall mounting the television to allow adequate ventilation. This will prevent overheating and possible damage to the television. Dusty places should also be avoided. For wall mounted positions at least 2.5 cm gap was retained from the wall and the 10 cm was kept clear around all edges of the TV.

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 220-240 V AC 50 Hz. Never connect to a DC supply or any other power source. DO ensure that the television is not standing on the mains lead.

DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. 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 inter-connections 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 in accordance with the installation instructions. See page 5.

DO be careful with glass panels or stands on equipment.

DO use a soft, dry cloth to clean the unit.

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

THE MAINS PLUG IS USED AS THE 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.

DO NOT use makeshift stands and NEVER fix legs with wood screws.

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.

DO NOT push/pull CI CAM at a tilt to prevent breakdown of COMMON INTERFACE.

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.

English

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.



Stand style is dependent on model

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, it is recommended to secure the TV using the fixings on the stand strap or "P" clips.

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.



Avoid using chemicals (such as air refreshers, cleaning agents, etc.) on or near the TV pedestal. Studies indicate that plastics may weaken and crack over time from the combination effects of chemical agents and mechanical stress (such as weight of TV). Failure to follow these instructions could result in serious injury and/or permanent damage to TV and TV pedestal.

When using a Wall Bracket

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

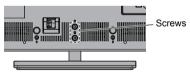
- Two people are required for installation.
- · Install a wall-mount from another manufacturer.
- Unplug and remove any cables and/or other 1 component connectors from the rear of the TV.
- Carefully lay the front of the unit face down on a flat, 2 cushioned surface such as a guilt or blanket.
- 3 Follow 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.
- 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, 1 cushioned surface such as a guilt 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 cover and screws.



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

When using MHL (Mobile High-definition Link)

- · Interoperability with MHL devices of other manufacturers is not guaranteed.
- · Toshiba does not provide any guarantee, therefore, against operational failure such as that described below when an MHL source is connected to the TV.
 - No picture or sound
 - Some of the functions do not work by remote operation from the TV
- · If the MHL does not work properly, also contact the manufacturer of the source device for advice on its use.

Please take note

The digital reception function of this television is only effective in the countries listed in the "Country" section of the "Installation" 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.

When Using a USB Hard Drive (HDD)

- The recording function has been designed for private use and entertainment in your home environment. Please note that any commercial use of the recording function could lead to copyright infringement of authors' rights. Toshiba asks you to respect the intellectual property rights of third parties.
- Before recording to a device connected to the TV, make a test recording and check the recording performance.
- Programmes that are prohibited from copying due to copyright protection cannot be recorded.
- Toshiba shall not be liable for compensation or incidental damages of any kind whatsoever resulting from content that was not properly recorded on the recording device or that was modified or lost.
- Toshiba shall not be liable for damages of any kind whatsoever (breakdown of the recording device, modification or loss of the recorded content, etc.) resulting from malfunction, operating failure or incorrect operation due to combining with another connected device.

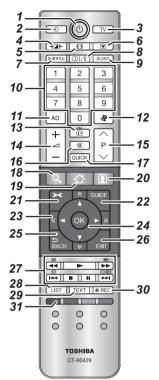
- If you connect a USB HDD that has been used with a PC or another TV, only programmes which are recorded using this TV can be playback.
- Switch the TV to standby before you disconnect the USB HDD.

Not doing so may result in loss of the recorded data or malfunction of the USB HDD.

- Please note that recording on the USB HDD is no longer playable after the TV's main-board is exchanged during service.
- To ensure protection of your personal data Toshiba recommends that you reset all TV settings when you recycle your TV or transfer to others. To reset your TV please access via menu settings, selecting 'Reset TV'. See owner's manual page 77 for further details.

The remote control

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



- For On/Standby mode 1
- 2 To select input sources
- 3 To select TV Mode
- Selectable Picture 4
- Widescreen viewing 5
- 6 Picture still
- 7 Digital Subtitles or Analogue TEXT Subtitle pages if available
- 8 MI/I Stereo/bilingual transmissions
- To access the sleep timer 9
- 10 Number buttons
- 11 Switch the Audio Description On/Off
- 12 To return to previous channel
- 13 To display on-screen information To access the index page in Text mode
- 14 To alter the TV volume
- 15 To change programme positions To change TEXT pages
- 16 To mute the TV sound
- 17 To access Quick Menu
- 18 Q Accesses the Search Portal

- 19 Accesses the Smart TV Cloud Home
- Accesses to premium content available 20 online
- 21 To access the on-screen Menu
- 22 To display the digital on-screen Programme Guide
- 23 😞 🔆 🛞 To page up, down, left or right
- 24 When using menus, the arrows move the cursor on the screen up, down, left or right. Press OK to confirm your selection
- 25 To return to previous Menu
- 26 To exit menus and applications
- 27 When in TV mode:

(☑)/ ■ Analogue time display

When in Text mode:

- (≣?) To reveal concealed text
- E¥ To hold a wanted page
- To enlarge text display size
- Image: To erase Text pages temporarily when you are viewing in teletext mode.

During Playback:

- To PLAY ►
- To STOP
- н To PAUSE
- To SKIP-BACK
- 44 To REWIND
- •• To FAST FORWARD To SKIP FORWARD
- 28 To access the analogue or digital Channel List
- 29 To call up text services
- 30 To record DTV programmes
- 31 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 control are AAA, IEC R03 1.5 V.

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

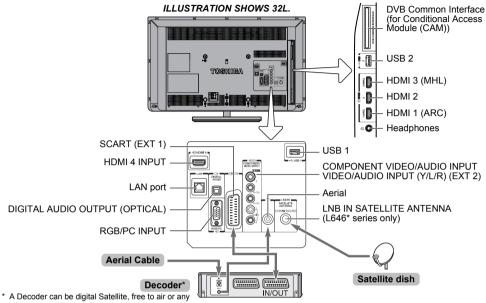
exhausted batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 93 of this manual.

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.



(COCO

 A Decoder can be digital Satellite, free to air o other compatible decoder / recorder.

Aerial cables:

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

Satellite cable:

Connect the LNB from the satellite dish to the **SATELLITE ANTENNA** socket on the TV. You can receive TV, radio, interactive TV, and HD TV with clear reception.

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

When connecting the VIDEO/AUDIO devices, connect those cables to **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 electrical equipment with digital audio and video output. It is designed for best performance with 1080i and 1080p high-definition video signals but will also accept and display VGA, 480i, 480p, 576i, 576p and 720p signals.

PC format signals will also be displayed.

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

LAN port is used to connect the TV to your home network.

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 ூ to select between TV, EXT 1, EXT 2, EMMI 1, HDMI 2, HDMI 3, HDMI 4 or PC.

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

As for SCART output, audio signal may mute or other video signal may output depending on the DTV mode.

Connecting an HDMI[®] device

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 89.

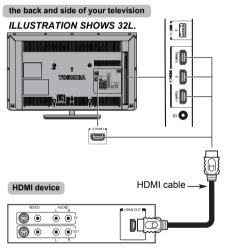
NOTE: Supported Audio format: Linear PCM, Dolby Digital (AC-3), DTS, sampling rate 32/44.1/48 kHz.

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).

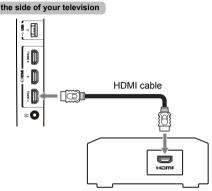
- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50 Hz, you will need a Category 2 cable. Conventional HDMI/ DVI cable may not work properly with this model.
- HDMI cable transfers both video and audio. Separate analogue audio cables are not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



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

HDMI's ARC (Audio Return Channel) feature

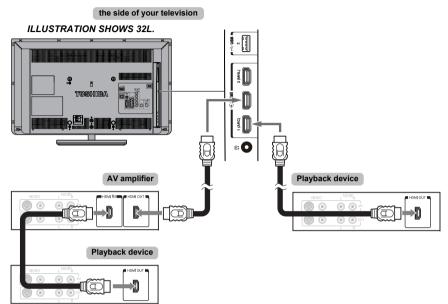
This feature enables the audio signal of the TV to be sent to the AV amplifier via the HDMI cable. It will not be necessary to connect a cable from the audio output of the TV to the audio input of the AV amplifier to reproduce the audio received from the tuner of the TV through the AV amplifier.



AV amplifier that supports ARC

Connecting an HDMI CEC Control compatible device

You can control the basic functions of connected audio/video devices using the television's remote control if you connect an HDMI CEC compatible AV amplifier or playback device. For an explanation of setup and operations, see pages 80–82.



For the setup shown above, you will need three HDMI cables.

NOTE:

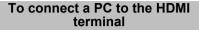
- If several devices are connected, the HDMI CEC Control feature may not operate properly.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (**HDMI**).
- This function is available when one PC and one AV amplifier are connected separately. However, it may not operate properly if the PC is connected via the AV amplifier.

Before controlling the device(s):

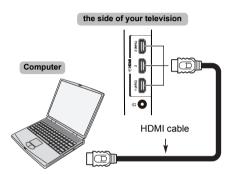
- After completing the above connections, set the HDMI CEC Control Setup menu as you desire (see page 80).
- The connected devices must also be set. For details, see the operation manual for each device.
- The HDMI CEC Control feature uses CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's HDMI CEC Control. However, Toshiba is not liable for those operations. Refer to individual instruction manuals for compatibility information.

Connecting a computer

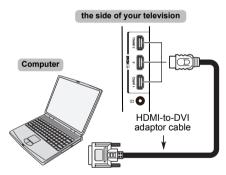
With either an HDMI or an RGB/PC connection, you can watch your computer's display on the television.



When connecting a PC to the HDMI terminal on the television, use an HDMI cable (type A connector).



If connecting a PC with DVI terminal, use an HDMI-to-DVI adaptor cable.



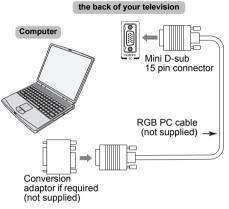
For acceptable PC and video signal formats, see page 89.

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.

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 88.

To display the optimum picture, use the PC setting feature (see page 77).

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 AV connection menu.
- Some PC models may output unique signals that the television may be unable to detect (see page 88).
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

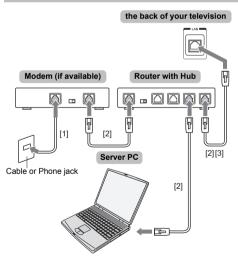
Connecting a home network

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 media server and play/ display them on your TV.

NOTE:

- If you connect to a shared network outside your home, it is advisable to use a router. Always use network media products in private network environments. Connect this TV to the same router as other network media 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 46.
- 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.
- Please consult your PC manufacturer about details of PC settings.
- Wireless appliances may interfere with Intel[®] WiDi / wireless display.

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.

Warning: This TV complies with the EMC directive only when you use a shielded Cat5 ethernet cable.

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

Please refer to "Wireless Setup" section on page 43.



NOTE:

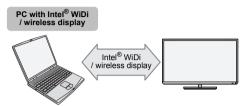
- If this device is going to be operated in the frequency range of 5.15 GHz to 5.35 GHz, it is restricted to indoor use.
- If this device is going to be operated for 802.11 b/g/n function in the frequency range of 2.454 GHz to 2.4835 GHz in France, it is restricted to indoor use.
- A general authorization 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 20 km from the centre of Ny-Alesund in Norway.
- Make the wireless LAN appropriate security setting at the time of wireless LAN use to prevent the illegal use, spoofing and interception of communications.
- Don't connect wireless LAN to an outside network directly.

Apply the wireless LAN access point with router function or broadband router. Make the router appropriate security setting to prevent the illegal use. Refer to the manual of router for a security setting.

To connect the TV to the Device with Intel[®] WiDi / wireless display

Available wireless channel is restricted in the following range in case that you use the ${\rm Intel}^{\textcircled{\sc 0}}$ WiDi / wireless display.

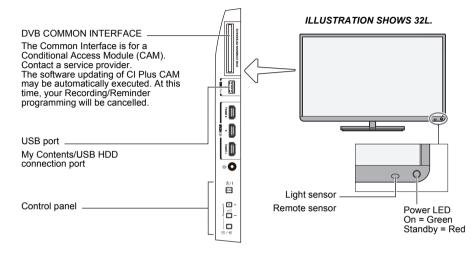
2.4 GHz: 1~11 ch 5 GHz: 36~48 ch



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 \mathbf{O} 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 can save money.

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

Using the TV controls and connections

- ・ To turn on or off the TV, press 心/l.
- To alter the volume, press + or –.
- + and buttons operate as volume up/down as default.

Channel→Input→Volume

The My Contents 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.

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

NOTE:

- The USB socket has limited functionality and Toshiba can take no responsibility for damage to other connected equipment.
- Interactive video games that involve shooting a "gun" at an on-screen target may not work with this TV.

Using the menu system

Press **3**-**C** on the remote control to display the menu.

The menu appears as a list of seven topics. As each icon is selected by pressing \blacktriangle / \blacktriangledown on the remote control, its respective options will appear on the right.

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 greyed out.

Ж	Press \blacktriangle / \blacksquare and OK or \blacktriangleright
	Picture Mode
Picture	Reset
	Backlight
	Contrast
	Brightness
	Colour
	Tint
	Sharpness
	Advanced Picture Settings
	Expert Picture Settings
	Display Settings
Press 🛦 / 🔻	Press ▲ / ▼ and OK or ▶
•	Sound Navi
Sound	Sound Mode
Sound	Advanced Sound Settings
	Sound Separation Effect
	TruVolume
	Dynamic Range Control
	Balance
	Dual
	Audio Level Offset
	TV Speakers
	Headphone Level
	Audio Description
	Digital Audio Output

Press 🛦 / 🛡	Press \blacktriangle / \blacktriangledown and OK or \blacktriangleright
	Recording Setup
Options	My Contents Setup
	MHL Setup
	HDMI CEC Control Setup
	Hybrid TV Standard
	Teletext
	Panel Lock
	AV Connection
	Power Management
	Blue Screen
	HDMI Information Display
Press 🛦 / 🔻	Press \blacktriangle / \blacksquare and OK or \blacktriangleright
S.	Menu Language
Installation	Country
	Location
	Channel Tuning
	DTV Settings
	Quick Setup
	Reset TV
Press 🛦 / 🔻	Press \blacktriangle / \blacksquare and OK or \blacktriangleright
	Network Setup
Network	Network Device Setup
	Smart Apps Setup
Press 🛦 / 🔻	Press \blacktriangle / \blacksquare and OK or \blacktriangleright
ã	On Timer
Timers	Sleep Timer
Press 🛦 / 🔻	Press ▲ / ▼ and OK or ►
\bigcirc	Software Licences
Get Help	Software Upgrade
Gernep	System Information
	Store Demo

Startup Application

Before switching on the TV make sure that your aerial is connected and any decoder / media recorder, if applicable is connected and in **Standby**.

Quick	Setup
-------	-------

Press the 🕁 button, Toshiba logo will appear. After that, 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 executed.

Press AV The country/Language screen will appear.

Menu Language Please press [OK]	to proceed.		
English	Français	Deutsch	Español
Italiano	Português	Nederlands	Svenska
Dansk	Norsk	Suomi	Polski
Türkçe	Magyar	Slovensky	Český
Русский	Română	Български	Srpski
Ελληνικά	Hrvatski	Українська	Slovenščina

B

Press \blacktriangle / \bigtriangledown to highlight **Country** and press \triangleright and \blacklozenge / \bigtriangledown to select your country.

The country will be changed, and all existing channels (ATV and DTV) will be cleared even though tuning has not been executed ever.

Quick Setup	Country/Language	1/3	
🗞 Country	Thank you for choosing Toshiba	TV	
f Location			
Network	<u> </u>	S.,	
Smart TV	Country	Germany	German
	Primary Subtitle Language	German 🕞	Greek
👾 Channel Tuning	Secondary Subtitle Language	Turkish	Greenlandic
	Primary Audio Language	German	Hungarian
	Secondary Audio Language	English	-
			Icelandic
	Previous	Next	Irish
	Frevious	ITEAL	Italian
			Kurdish

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**.

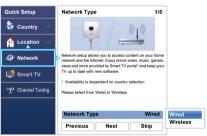
Press **AV+ b** to highlight **Next** and press **OK**. The **Location** screen will appear.

Quick Setup	Location 1/2
🖏 Country 🧹	10
f Location	
A Network	To set up the TV for use within a showroom, please select [Store] from the menu below.
📑 Smart TV	[Home] is recommended for normal use. * Power requirement for Store mode will be higher due to
Channel Tuning	automatic store demos.
	Home
	O Store
	Previous Next

- Press ▲ / ▼ to select Home or Store and press OK. For normal home use, select Home.
- 6 Press ▲▼◀ ► to highlight Next and press OK. The Auto View screen will appear. Press ◀ / ► to select Yes or No and Press OK.
- Press ▲ / ▼ to select Stand or Wall and press OK.

Press ▲▼◀ ► to highlight Next and press OK. The Network Type screen will appear.

Press ▲ to highlight Network Type and then press
 > and ▲ / ▼ to select Wireless. Press OK.



- When you select Wired (LAN cable connection), skip to step 15.
- Press ▲▼◀ ► to highlight Next and press OK. The Wireless Setup screen will appear.
- Press ▲ to highlight Wireless Setup and then press ▶ and ▲ / ▼ to select the Wireless Setup type. Press OK.

Quick Setup	Wireless Setup	2/5]
🖏 Country 🧹	Please select a wireless option. Assisted Setup	s network setup is recommended.	
🛉 Location 🧹			
Setwork	Wireless Setup	Easy Setup	Easy Setup
- Hotmonk			Assisted Setup
📑 Smart TV			Manual Setup
👾 Channel Tuning			
	Previous	Next	

There are 3 methods for Wireless Setup:

 Easy Setup - If the AP supports Wi-Fi Protected Setup, this method can be used. Wi-Fi Protected Setup is an industry standard designed to make connection of wireless LAN equipment and security setup easy. Wi-Fi Protected Setup will automatically configure all wireless settings.

NOTE: WEP or TKIP encryption may not be able to configured by easy setup.

- Assisted Setup follow step 12. Input the Security Key only.
- Manual Setup, skip to step 13. Input the all settings.

NOTE: EXIT is available during settings.

M

In step 10, when you select Easy Setup;

Press ▲V◀ ► to highlight Next and press OK. The Easy Setup screen will appear. Press ► and ▲ / ▼ to select PBC (Push Button Configuration) or PIN (Personal Identification Number) and press OK.

Press **V** to highlight Start Scan and press OK.

PBC - Following the on-screen instructions, push the appropriate button on your AP. When a window reporting that the setup is complete appears, press **OK**.

PIN - When the PIN code window appears, enter the displayed PIN into your AP, and then press **OK** to continue the PIN Setup. When a message displays to report that the setup is complete, press **OK**.

To cancel searching for the AP:

Press **BACK** while searching for the AP. A message will appear, and then press \blacktriangleleft / \blacktriangleright to select **Yes** and press **OK**.

12

In step 10, when you select Assisted Setup;

Press $\blacktriangle \forall \blacklozenge \flat$ to highlight Next and press OK. The Assisted Setup screen will appear. Press $\blacklozenge / \blacktriangledown$ 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.

Press ▲ / ▼ to select Security Key and press OK. The Software Keyboard window will appear (page 48).

Input the Security Key by using the Software Keyboard. To save your setting, press the **GREEN** button.

NOTE:

The Security Key must adhere to these conditions:

- AES, AES/TKIP: 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.

Press \blacktriangle / \bigtriangledown to highlight **Done** and press **OK**.

NOTE:

- If Network Name is not displayed, see Manual Setup below to set Network Name before **Done** is selected.
- If **BACK** is pressed before **Done** is selected, settings are not saved.

When the message "Wireless configuration is complete." appears on screen, press **OK**. The screen will skip to step 14.

In step 10, when you select Manual Setup;

Press ▲▼◀ ► to highlight Next and press OK. The Manual Setup screen will appear. Press ▲ / ▼ to select Network Name and press OK. The Software Keyboard window will appear (page 48).

Input the Network Name by using the Software Keyboard. To save your setting, press the **GREEN** button.

Press \blacktriangle / \checkmark to select Authentication and then press \blacktriangleright and \blacklozenge / \checkmark to select Open System, Shared Key, WPA2/WPA-PSK (mixed mode WPA2/WPA) or WPA2-PSK. Press OK.

Press \blacktriangle / \checkmark to select Encryption, and then press > and \blacktriangle / \checkmark to select None, WEP, AES/TKIP or AES. Press OK.

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** or **None** is compatible.
 - When Authentication is WPA2/WPA-PSK (mixed mode WPA2/WPA), only AES/TKIP is compatible.
 - When Authentication is **WPA2-PSK**, only **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.

Press ▲ / ▼ to select Security Key and press OK. Input the Security Key by using the Software Keyboard (page 48). To save your setting, press the **GREEN** button. This item is greyed out when **Encryption** is **None**.

When Encryption is WEP, Key ID setting is available. Press $\blacktriangle / \blacktriangledown$ to select Key ID and press > and $\blacktriangle / \blacktriangledown$ to select 1 (default), 2, 3 or 4.

Press \blacktriangle / \bigtriangledown to highlight **Done** and press **OK**. When the message "Wireless configuration is complete." appears on screen, press **OK**.

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

The Advanced Network Setup screen will appear.

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 DNS address(es) manually.



You can view the fixed MAC address for the TV, if one is installed.

Press \blacktriangle / \blacksquare to highlight Next.

Б

Press OK, and Network Connection Test will start.

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

Network Connection Test	5/5
Network connection was completed suc	cessfully.
ОК	

NOTE: The result of Network Connection Test does not always guarantee the connection.

To cancel the Network Connection Test: Press EXIT while testing.

When the network can be accessed, **Software Upgrade** starts automatically. When **Software Upgrade** is completed, proceed to the next step.

- Press OK, and Power Management screen will appear. Press ▲ / ▼ to highlight the External Record Control. Press ▶ and ▲ / ▼ to select Off or On and press OK.
- Press ▲ / ▼ to highlight the Companion Device Control. Press ▶ and ▲ / ▼ to select Off or On and highlight Next.
- Press OK. If the Ant/Cable/Satellite screen appears, press ▲ / ▼ to select Antenna, Cable or Satellite, and then press OK to check (✓).

Antenna	
Cable	
Satellite	
Previous	Next

- When you select **Antenna** or **Cable**, follow step 19 to 22.
- When you select Satellite, skip to step 23.
- When you select Antenna (or Cable) and Satellite, the Satellite Settings startup screen will appear automatically after completing the Antenna (or Cable) scan and pressing OK.
- Press ▲▼◀ ► to highlight 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. Press ► and ▲ / ▼ to select the appropriate mode and press OK.
- Press ▼ to highlight Start Scan, and press OK.

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 Tunir	ng - Antenna		
	Progress		Found
DTV Tune	4 %		0
ATV Tune	Waiting		0
	Cha	annel: 23	

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

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

Press ◀ / ► to view the DTV (digital channel) or ATV (analogue channel) lists. Press ▲ / ▼ to move through the list to select a channel, and then 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.

Select Next and press OK. The Satellite Settings screen will appear. From this window, you can add the satellites that you wish to tune and configure detailed settings for each one individually.

> Select Switch Type and choose the correct switch configuration for your satellite dish from the settings None, ToneBurst, DiSEqC 2way, DiSEqC 4way or Single cable.

Satellite Settin	igs			
Switch Type	No	ne	Þ	None
LNB Power	0	'n		ToneBurst
No.	Satellite	Dish	LNB	DiSEqC 2way
1	Astra 19.2E	1	1	DiSEqC 4way
2				Single Cable
3				
4				
	Done			

NOTE:

- None is being used when the satellite dish will control only one universal Low Noise Block (LNB) with a single satellite (e.g. Astra 19.2°). As a rule, most households use just one satellite.
- **ToneBurst** controls the **ToneBurst** switch. It is able to switch two LNBs automatically.
- DiSEqC 2way automatically switches between two LNBs, which receive different satellites at the same time (e.g. Astra 19.2° and Hotbird 13°).
- DiSEqC 4way automatically switches between up to four LNBs / satellites.
- Single cable is selection and control of plural Satellite antennas through the combined single antenna cable.

The setting LNB Power enables you to switch on or off the LNB's power supply by means of the TV. When your satellite dish consists of only one LNB, LNB Power should generally be activated (On). When using more than two LNBs, it is recommendable to use external power supply for these

Satellite Settin	ngs			
Switch Type		None]
LNB Power		On	Þ	On
No.	Satellite	Dish	LNB	Off
1	Astra 19.2E	1	1	
2				
3				
4				
	Done			

It is possible to select up to four satellites. Please note that the number of available LNBs and the adjustment of your satellite dish determines the number of satellites found. For example, it is not possible to receive more than one satellite if your dish is directed to a single satellite. For further information on satellite signal technology, please contact your local dealer.

B Power No. Satellite 1 Astra 19.2E 2 3 4	On Dish 1	LNB 1
1 Astra 19.2E 2 3	Dish 1	
2 3	1	1
3		
-		
4		
Transponder : 1/120 (10729 Dish Type : Fixed Lower LOF : 9750 Upper LOF : 10600	9) MHz	

Once you have selected a satellite, you can change further settings under **Dish** and **LNB**. Press **OK** and **◄**/ ► to select **Dish** or **LNB** and press **GREEN** button.

Under **Dish** you choose the dish type that will be used (fixed or moveable dish). The majority of households have a fixed satellite dish.

LNB allows you to determine the lower and higher Local Oscillator Frequency (LOF). Usually, the factory settings do not need to be changed. You can find the parameters of the lower and higher LOF on the specification sheet of your LNB.

Satellite Setti	ings		
Switch Type	e I	lone	
LNB Power		On	
No.	Satellite	Dish	LNB
1	Astra 19.2E	1	1
2			
3			
4			
Transpon Dish Type Lower LC Upper LC)F:9750	9) MHz	
	Done		

Press ▲ / ▼ to highlight Done and press OK.

24

If your satellite dish is moveable, the following **Positioning** screen will appear.

Positioning				
Satellite : ASTR	A 23.5°E			
Transponder		1/3(5M	Hz H(R))	•
Go to 0				
Go to Stored P	osition			
Step Size		1		
Positioning		w	E	
Satellite : ASTR	A 19.2°E			
Signal Level				0%
	Quality	GO	OD	
	Store Posi	tion		

Press \blacktriangle / \bigtriangledown to highlight **Positioning**, and then press \blacktriangleleft / \triangleright to find the dish position with the strongest signal level.

Press \blacktriangle / \bigtriangledown to highlight **Store Position** and press **OK** to store the dish position. Repeat steps 23 and 24 for the next satellite as necessary.

Adjust the dish position manually for the maximum Signal Level strength. The signal level strength is displayed from 0 % to 100 %. A high signal level can be achieved by adjusting the satellite dish the best way possible.

Signal Level		30%
--------------	--	-----

Press \blacktriangle / \bigtriangledown to highlight **Done** and press **OK**.

If your satellite dish is not movable, please adjust the dish manually and press **Done**.

If you select **Single Cable** in step 23, the **Single Cable Settings** screen will appear. You can set the appropriate value for each item and highlight **Done**.

User Slot Number	0
User Slot Frequency	1284
Password PIN	None
Verify Slot F	requency



If the reception testing completes successfully, the **Auto Tuning** startup screen will display.

Quick Scan
Free to Air

You can select **Search Option** from **Free to Air** or **All**.

When choosing the search option **AII**, all channels (including encrypted ones) of the satellite will be searched for. If you wish to only search for unencrypted (free) channels, please select **Free to Air**. In this case, the channel scan will be completed faster.

26 Pre

Press ▼ to highlight Start Scan, and press OK.

The television will start to search for available **DVB-S** channels. The progress bar will indicate the scan status.

When the search is complete, the **Auto Tuning** results screen will display the total number of services found.

Use \blacktriangle / \bigtriangledown to move through the list to select a channel, and then press **OK** to view.

PLEASE NOTE

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

Ant/Cable/Satellite (if available)

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

- Press \rightarrow and $\blacktriangle / \checkmark$ to highlight **Installation** icon.
- Press ➤ and ▲ / ▼ to select Channel Tuning and press OK.
- B Press ▲ / ▼ to select Ant/Cable/Satellite and press OK.
- Press ▲ / ▼ to select Antenna, Cable or Satellite.
- **5** Press \blacktriangle / \bigtriangledown to highlight **Next** and press **OK**.

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

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

Press \blacktriangle / \blacktriangledown to select an item and press \triangleright and \blacktriangle / \blacktriangledown to select your desired option.

Tuning Mode	DTV and ATV
Start Scan	
DTV	
Operator Selection	Others
Scan Type	Quick Scan
Start Frequency	Auto
End Frequency	Auto
Modulation	Auto
Symbol Rate	Auto
	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 six 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 greyed out when DTV Scan Type is set to "Full Scan".

Satellite Settings

From the System Setup menu, you can add the satellites that you wish to tune and configure detailed settings for each one individually.

To add a satellite:

1

Press **)–C** and \blacktriangle / \blacktriangledown to highlight **Installation** icon.

- Press ➤ and ▲ / ▼ to select Channel Tuning and press OK.
- Press ▼ to select Satellite Settings and press OK.



- Press ▼ to highlight a new line to add an another satellite and press OK.
- Press ▲ / ▼ until the required satellite is displayed and press OK.

To delete a satellite:

- In the Satellite Settings menu, press ▲ / ▼ to select the satellite you want to delete.
- Press the RED button. A confirmation window will appear.

B Press ◀/ ► to select Yes and press OK.

NOTE: It is not possible to delete position No.1.

To edit the satellite settings:

- In the Satellite Settings menu, press ► to edit Switch Type.
- Press ▲ / ▼ to select None, ToneBurst, DiSEqC 2way, DiSEqC 4way or Single Cable as your satellite switch type.
- B Press ▼ to highlight LNB Power, press ► to edit LNB Power and press ▲ / ▼ to select On or Off.

To add a transponder:

In the Satellite Settings menu, press ▲ / ▼ to highlight the line you want to edit and press OK.

1	Astra 19.2E	1	1

2

Press the GREEN button. The Transpor	nder
Settings screen will appear.	

Transponder Settings				
	Frequency	Polarisation	Symbol Rate	S/S2
1	10743	н	22000	S
2	10773	н	22000	S
3	10788	v	22000	S
4	10817	v	22000	S
5	10832	н	22000	S
6	10847	v	22000	S
7	10861	н	22000	S
8	10876	v	22000	S

B

Press \blacktriangle to highlight a new line.

	Frequency	Polarisation	Symbol Rate	S/S2
76	12640	н	22000	s
77	12662	н	22000	S
78	12669	v	22000	S
79	12692	н	22000	S
80	12699	v	22000	S
81	12721	н	22000	s
82	12728	v	22000	S



5

Press OK.



Edit each parameter as required and press OK.

83 1231	н	0	S2
---------	---	---	----

To delete a transponder:

- In the Transponder Settings menu, press ▲ / ▼ to highlight the line you want to delete.
- Press the RED button.

To edit the Transponder Settings:

- In the Transponder Settings menu, press ▲ / ▼ to highlight the line you want to edit and press OK.
- Press ◄/ ► to select Frequency, Polarisation, Symbol Rate or S/S2, and set the item using the number buttons and ▲ / ▼ if necessary.
- B Press **OK** to save your settings.
- 4 Repeat steps 1 through 3 for other lines.
- 5 Press the BLUE button to finish editing and return to Satellite Settings.

Press the **GREEN** button to cancel any edits that were made.

Press the **YELLOW** button to reset all transponder settings to their initial default settings.

To select the Dish Type:

- In the Satellite Settings menu, press ▲ / ▼ to select the required satellite line and press OK.
- Press ◀ / ► to highlight Dish and press the GREEN button.

Dish Settings		
Dish : 1		
Dish Type	Fixed	•

B Press ► and ▲ / ▼ to select **Dish Type**. You can select **Movable** or **Fixed** as the Dish Type.

To select the LNB Settings:

- In the Satellite Settings menu, press ▲ / ▼ to select the required satellite line and press OK.
- Press ◀/ ► to highlight LNB and press the GREEN button.

LNB Settings	
LNB:1	
Lower LOF	9750
Upper LOF	10600

B Press ▲ / ▼ to select Lower LOF or Upper LOF and use the number buttons (0-9) to input the appropriate frequencies.

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.

Prose and a / T to highlight Installation

- Press $\rightarrow \$ and \land / \lor to highlight **Installation** icon.
- Press ► and ▲ / ▼ to select Channel Tuning and press OK.
 - Press ▲ / ▼ to select Auto Tuning and press OK.

< Channel Tuning	
Ant/Cable/Satellite	
Satellite Settings	
Auto Tuning	•
ATV Manual Tuning	
DTV Manual Tuning	
Antenna Amplifier	

B

5

A message will appear, and then press $\triangleleft / \triangleright$ to select **Yes** and press **OK**.

Press ► and ▲ / ▼ to select DTV, ATV or DTV and ATV, if available, then highlight Start Scan and press OK to continue with the Auto Tuning.

Auto Tuning - Antenna		
Tuning Mode	DTV	DTV
		ATV
		DTV and ATV
Start Scan		

NOTE: If you have selected Others for the Country field in the Installation 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.

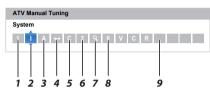
Press ▲ / ▼ to move through the list to select a channel and press **OK** to view.

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 / \blacktriangleright to move across the screen and select any of the ATV Manual Tuning options. Then use \blacktriangle / \blacktriangledown 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 (\rightarrow) or Off (\rightarrow) for the selected channel. See page 25.

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 85.

9 Station

Station identification. Use the $\blacktriangle \blacksquare$ and $\blacktriangleleft \blacksquare$ 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 Channel Tuning menu, press ▼ to select ATV Manual Tuning and press OK.

< Channel Tuning	
Ant/Cable/Satellite	
Satellite Settings	
Auto Tuning	
ATV Manual Tuning	•
DTV Manual Tuning	
Antenna Amplifier	

2

Press ▲ / ▼ to select the desired position. We suggest *Pos. 0* for a media recorder.

ATV Manual Tuning					
Pos.	Channel	Station			
0	C2		•		
1	S10				
2	C7				
3	S40				
4	C22				
5	C25				
6	C28				
7	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 ▲ / ▼ to change if required.

Then press ► to select Search.

5

6 Press ▲ / ▼ to begin the search. The search symbol will flash.

- 7 Each signal will show on the television. If it is not your media recorder, press ▲ / ▼ again to restart the search.
- 8 When your media recorder signal is found, press to move along to **Station**. Use $\blacktriangle \forall \blacklozenge \flat$ to put in the required characters. e.a. VCR.

ATV Man	ual Tuning					
Station						
1	A → C	2 9,	0	VC	Ŗ	

- 9 Press OK to save.
- M Repeat for each position you want to tune.
- ന 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 Channel Tuning menu.
- 2 Press \blacktriangle / \bigtriangledown to highlight the position to be skipped and press OK.

ATV Ma	nual Tuning	
Pos.	Channel	Station
0	C2	
1	S10	
2	C7	
3	S40	
4	C22	
5	C25	
6	C28	
7	C30	

3

Press ► to select Skip.



5

Press ▲ / ▼ to turn Skip on and press OK.

• on the screen indicates a skipped position.

ATV Manual Tuning Skip: On 🐢 C 2 🔍 0

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 PA 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 Channel Tuning menu.

With the list of channels showing, press ▲ / ▼ to highlight the position to be moved and press ▶.

ATV Ma	anual Tuning		
Pos. 0	Channel - The C - 69	Station	Î
1	C - 31	BBC1	
2	C - 43	BBC1	
3	C - 7		
4	C - 9		
5	C - 12		
6	C - 23		
7	C - 2		

3

Press ▲ / ▼ to move through the list to your preferred position. As you do so, the other channels will move to make room.



Press ◀ to save your move.

Repeat as necessary and press EXIT.

DTV Manual Tuning

NOTE: This feature varies depending on the Ant/Cable/ Satellite 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 Channel Tuning menu and press OK.

DTV Manual Tuning - Antenna				
Signal Strength	WEAK	AVERAGE	STRONG	
orginal offorigan	Quality	GC	DOD	
Channel			67	
Frequency		8	42.00 MHz	
Bandwidth			8 MHz	
	Start	Scan		



Press \blacktriangle / \bigtriangledown to select Channel and press \triangleright to display the Frequency list. Use the number buttons to enter the number.

- B Press ▲ / ▼ to select Frequency and press ◀ / ► to adjust the value. When there is no Channel corresponding to the Frequency, "--" is displayed to the Channel.
- 4

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

DTV Ma	DTV Manual Tuning - Antenna				
	0 New	Channels - Total 6			
New	Pos.	Name	Туре		
	1	ABC ONE			
	2	ABC TWO			
	7	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.



Repeat as necessary. Press EXIT to finish.

Manual Tuning for DVB-C

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

Frequency: Input a specific frequency to be scanned

 $\label{eq:modulation} \begin{array}{l} \mbox{Modulation: Choose from one of five QAM modulation} \\ \mbox{options} \end{array}$

 $\ensuremath{\textit{Symbol}}\xspace$ Rate: Input a specific baud rate (KS/s) to be used for the manual scan

Highlight Start Scan and press OK.

Manual Tuning for DVB-S

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

DTV Manual Tuning - Satellite				
Signal Strength	WEAK	AVERAGE	STRONG	
Signal Strength	Quality	P	DOR	
Satellite		AST	RA 28.2°E	
Transponder			1/83	
Frequency		1	10714 MHz	
Symbol Rate		2	2000 KS/s	
Polarisation			н	
Search Option	ı		Free to Air	
	Start	Scan		

Press ▲ / ▼ to highlight an item (Satellite, Transponder, Frequency, Symbol Rate, Polarisation or Search Option) and press ◀ / ▶ to select the required option.

Highlight Start Scan and press OK.

Antenna Amplifier

- Select Antenna Amplifier from the Channel Tuning menu and press OK.
- Press ▲ / ▼ to select DTV and press OK. Press ▲ / ▼ to select On or Off.
- Press ▲ / ▼ to select ATV and press OK. Press ▲ / ▼ to select On or Off.

DTV Settings

Channels (Antenna/Cable)

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

- Select DTV Settings from the Installation menu and press OK.
- 2

Press ▲ / ▼ to select Channels and press OK.

< DTV Settings
Channels •
Subtitle and Audio
Parental PIN Setup
Parental Control
Local Time Setting
DVB Character Set
Standby Channel Update
Dynamic Scan
Data Transfer
Common Interface
Stored CICAM PIN

³

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

Channels		Antenna TV	
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.

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.

Pos.	Name	
	ABC ONE	

Move — Press the **GREEN** button to activate the **Move** feature. Press \blacktriangle / \bigtriangledown 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 \blacktriangle / \blacksquare 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		Antenna TV	
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		

Delete — Press the **BLUE** button to activate the **Delete** feature. Press ▲ / ▼ to select the channel you wish to delete and press **OK**. Press the **BLUE** button and select "**Yes**" on Confirmation Message to execute the **Delete**.

Sort — Press the YELLOW button.

A confirmation window message will appear. In the window, if you select Yes, it will transit to "Sort Type Selection" window.

In the "Sort Type Selection" window, there are 3 kinds of sort type.

- Number (default)
- A Z Sort
- Z A Sort

Your existing cl	nannel order will be continue?	lost. Do you wish to
<	Yes	

Renumber, Move, Sort and Delete functions are not available for Antenna channels. Renumber, Move, Sort and Delete functions are available only for the DVB-C in Germany.

Channels (Satellite)

- Select DTV Settings from the Installation menu and press OK.
- 2 Select Channels and press OK.

The satellite channel list will appear.

Channels		Satellite TV	
Line No.	1/10		
Pos.	Name	Satellite	-@+
1	DDD	19.2°E	
2	AB	19.2°E	
3	E	19.2°E	
801	BBC	22.5°E	-@+
802	BB	22.5°E	
803	BA	22.5°E	
822	AA	25.6°E	
823	AC	25.6°E	



For your convenience, you can edit and sort your channel list.

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

Satellite Jump — Press I / → to jump to the next channel on a different Satellite.

Renumber — Same as Antenna/Cable channels. See page 27.

Move — Same as Antenna/Cable channels. See page 28.

Sort — Press the YELLOW button.

A confirmation window message will appear. In the window, if you select Yes, it will transit to "Sort Type Selection" window.

In the "Sort Type Selection" window, there are 3 kinds of sort type.

- Number (default)
- A Z Sort
- Z A Sort

Delete — Press the **BLUE** button to activate the **Delete** feature. Press ▲ / ▼ to select the channel you wish to delete and press **OK**. Press the **BLUE** button and select "**Yes**" on Confirmation Message to execute the **Delete**.

English

Standby Channel Update

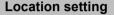
If the Standby Channel Update is set to On, when the TV is in Standby, Digital Tuning is automatically executed.



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

2

Press \forall to select **Standby Channel Update** and press \triangleright and \blacktriangle / \forall to select **On** or **Off**.



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 Installation menu.

Press ► or OK to edit Location and press ▲ / ▼ 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 retuned to ensure that existing and new **digital** services can be viewed without disruption.

Data Transfer

You can copy channel information from TV to USB memory and edit the channel information by using your PC and updates channel information to your TV.

- Select DTV Settings from the Installation menu and press OK.
- Press ▲ / ▼ to select Data Transfer and press ▶ and ▲ / ▼ to select Channel List, Transponder Table (if available) or Preset Order.

In case of Channel List and Transponder Table, press ► to select USB to TV or TV to USB. In case of Preset Order, select USB to TV.

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 open the **Quick Menu** and use \blacktriangle / \blacktriangledown to select the option.

Intel® WiDi / wireless display	Þ
Picture Mode	Standard
Picture Size	Wide
More Information	
Channel Options	
Sleep Timer	
HDMI CEC Device Control	
Speakers	TV Speakers
Headphone Level	30
Wireless Information	
My TV Library	
Recording Information	

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

Quick menu item example

Mode	Quick menu item	Description
When viewing a TV programme or	Intel [®] WiDi / wireless display	See page 60.
pictures from the external input	Picture Mode	See page 36.
	Picture Size	See page 34.
Single Window	More Information	See page 71.
	Channel Options	See page 74.
	Sleep Timer	See page 70.
	HDMI CEC Device Control	See page 80.
	Speakers	See page 81.
	Headphone Level	See page 33.
	Wireless Information	See page 45.
	My TV library	See page 55.
	Recording Information	See page 71.
When using EPG	Genre Colour	See page 72.
	EPG Update / Cancel EPG Update	See page 72.
My Contents	Picture	See page 36.
	Sound	See page 31.
	Interval Time	See page 64.
	Repeat	See page 64.
	Device Information	See page 63.
	Background Music	See page 64.
	Play List	See page 64.
	Sleep Timer	See page 70.
	Speakers	See page 81.
	Headphone Level	See page 33.
	Wireless Information	See page 63.

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 (j+). 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 $\textcircled{})(\boxtimes)$ 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 ∭I/II and use ◀ / ► to select settings.

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

For multi-audio track broadcasts, press M[/] repeatedly to change the audio language (see "Audio languages" on page 75).

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 M[/I] to select **Dual 1**, **Dual 2** or **Mono**.

Sound controls

Volume controls and sound mute

Volume

Press \bigtriangleup + or \bigtriangleup - to adjust the volume.

Sound Mute

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

Sound Navi

To set the frequency characteristics in the equaliser function corresponding to the environment.

- Press \rightarrow and \checkmark / \checkmark to highlight Sound icon.
- Press ► and ▲ / ▼ to select Sound Navi to select Stand or Wall.

Sound Mode

This feature adjusts the Advanced Sound Setting depend on the content.

In the Sound menu, press ▲ / ▼ to select Sound Mode and press ▶ and ▲ / ▼ to select Standard, Music, Movie, Clear Voice or Sound Separation and press OK.

Graphic Equaliser

This feature adjusts the frequency of output. This feature is effective only the selection of Standard in Sound Mode.

In the Advanced Sound Settings menu, press

 ✓ to select Graphic Equaliser and press OK.
 Graphic Equaliser screen will be displayed. Press
 ✓ to select frequency and press ▲ / ▼ to select level. To close the window, press EXIT.

TruDialog™

Dialog enhancement for clear and intelligible vocals.

In the Advanced Sound Settings menu, press ▲ / ▼ to select TruDialog and press ► and ▲ / ▼ to select On or Off.

Surround

This feature is effective only the selection of Standard in Sound Mode

П In the Advanced Sound Settings menu, press ▲ / ▼ to select Surround and press ▶ and ▲ / ▼ to select Off. TruSurround or Depth Rendering.

TruSurround: High guality surround sound and expanded sound field over two speakers.

Depth Rendering: Near and far depth sound field for a greater sense of immersion.

Sound Separation Effect

When the note box appears, press OK to enable Sound Separation. When activated, this feature allows you to emphasize either the dialogue or the background sound. You can do so by adjusting the value on the slider bar. The closer the value is to the 🗾 position, the more the dialogue is emphasized and the lower the background sound level.

П In the Sound menu, press ▲ / ▼ to select Sound Separation Effect and press OK. The selection bar will be displayed. Press

NOTE:

- This setting is temporary. When you switch the TV to standby, or change the channel or external input, the value is restored to the previous setting.
- Sound Separation has been designed for private use and entertainment in your home environment. Please note that any unlawful use, including public and/or commercial use, could lead to copyright infringement of the holder's rights. Toshiba asks you to respect the intellectual property rights of third parties.
- The effect of Sound Separation depends on the content used
- · If the content is mono, there may be little effect.
- · Sound Separation may amplify the noise that is included in the content
- · The volume may wobble when you enable Sound Separation.
- · Sound Separation takes a few seconds to exert after enabling it, changing content and changing volume.
- · Sound Separation may not work with some applications.

TruVolume™

Consistent volume, despite volume spikes or changes in content sources.

- When TV Speaker is On, you can set TruVolume to On or Off.
- ก

In the **Sound** menu, press **A** / **V** to select TruVolume.



Press \blacktriangleright and \blacktriangle / \bigtriangledown 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 ▲ / ▼ to select Dynamic Range Control.
- 2 Press \blacktriangleright and \blacktriangle / \bigtriangledown to select **On** or **Off**.

Balance

n In the **Sound** menu, press \blacktriangle / \bigtriangledown to select Balance and press ◀ / ► to emphasize left and right speaker balance.

Dual

If a programme or film is being broadcast with a soundtrack in more than one language, the Dual feature allows selection between them.

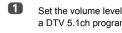


2

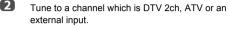
- Press \square and \blacktriangle / ∇ to highlight Sound icon.
 - Press ▶ and ▲ / ▼ to select Dual and press ▶ and ▲ / ▼ to choose between Dual 1 or Dual 2.

Sound Navi	Stand
Sound Mode	Standard
Advanced Sound Settings	
Sound Separation Effect	1
TruVolume	Off
Dynamic Range Control	On
Balance	0
Dual	Dual 1
Audio Level Offset	
TV Speakers	On
Headphone Level	
Audio Description	

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.



- B In the Sound menu, press A / V to select Audio Level Offset and press OK.
- 4 Press \blacktriangle / \bigtriangledown to select an option.

ATV	0
External Input	0

5

DTV 2ch	0	0

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 greved 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.

TV Speakers

This feature allows you to turn the TV speakers off when connecting the audio system.



In the **Sound** menu, press **A** / **V** to select **TV** Speakers.

Press ▶ and ▲ / ▼ to select Off.

To turn on the built-in speakers:

Select On in step 2.

Headphone Level

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

Speaker Link	Headphone	Speakers
On	Sound is output $(\bigtriangleup \pm is available.)$	No sound
Off	Sound is output (Headphone level menu is available.)	Sound is output $(\bigtriangleup \pm is available.)$



2

In the **Sound** menu, press \blacktriangle / \bigtriangledown to select Headphone Level and press OK.

Press ▲ / ▼ to select Speaker Link and press ▶ and ▲ / ▼ to select On or Off.

peaker Link	On ⊳	On
Headphone Level	30	Off



If you select Off, then highlight Headphone Level and use $\triangleleft/\triangleright$ to adjust the headphone sound.

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.



2

In the **Sound** menu, press **A** / **V** to select **Audio** Description and press OK.

Press A / V to select Audio Description and press \blacktriangleright and \blacktriangle / \bigtriangledown to select **On**.

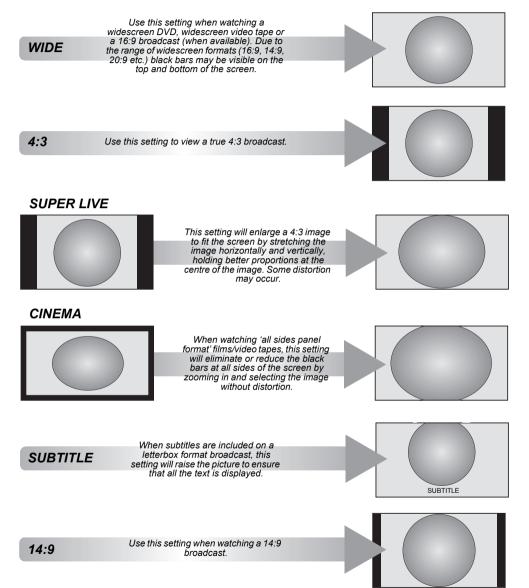
The AD button on the remote control can also be used to toggle the Audio Description feature between On and Off.

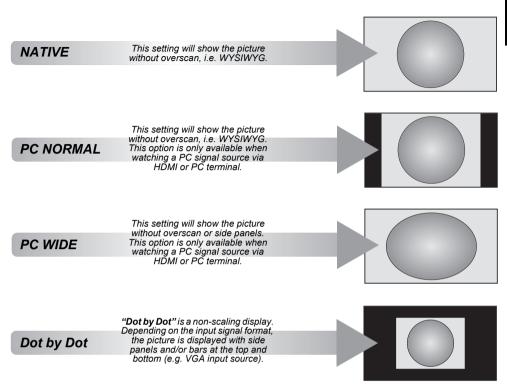
< Audio Description		
Audio Description	On	
Mixing Level	50	►

B To adjust the level of the audio description sound to the main sound, highlight Mixing Level and press ◀/►.

> Mixing Level 50

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

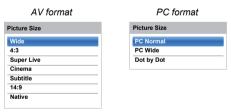




Press the 🕞 button on the remote control to display the list of available widescreen formats.

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.

Picture controls

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

Picture Mode

This television offers the choice of personalising the picture style.

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

NOTE:

- Because the AutoView mode automatically adjusts picture settings based on ambient light conditions and input signal content, the Auto Brightness Sensor and Expert Picture Setting is greyed 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 → C and ▲ / ▼ to highlight Picture icon and press OK.

Press ▶ and ▲ / ▼ to select Picture Mode and press OK.

Picture Mode	Standard <
Reset	
Backlight	0
Contrast	100
Brightness	0
Colour	0
Tint	0
Sharpness	0
Advanced Picture Setting	
Expert Picture Setting	

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

Reset

This feature resets all picture settings to the factory settings except **Picture Mode**.

In the Picture menu, press ▲ / ▼ to select Reset and press OK.

A confirmation message will appear. Press ◀/ ► to select Yes and press OK.

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.

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

Press </ ▶ to adjust the settings and press OK.

ColourMaster

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

- In the Picture menu, press ▲ / ▼ to select Advanced Picture Settings and press OK.
 - Press \blacktriangle / \checkmark to select **ColourMaster** and press \blacktriangleright and \blacklozenge / \checkmark to select **On** or **Off**.

ColourMaster	Off 🕨
Base Colour Adjustment	
Colour Temperature	
Auto Brightness Sensor	On
Active Backlight Control	High
Black/White Level	Middle
Noise Reduction	
Resolution+	On
Cinema Mode	On
Reset	

2

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 ▲ / ▼ to select Base Colour Adjustment and press OK.



Press \blacktriangle / \blacktriangledown to select an option and press \blacktriangleright to move to the adjustment window.

	Hue	Saturation	Brightness	
Red	0	0	0	•
Green	0	0	0	
Blue	0	0	0	
Yellow	0	0	0	
Magenta	0	0	0	
Cyan	0	0	0	
Reset				



Press ◀/ ► to select Hue, Saturation or Brightness and press ▲ / ▼ to adjust the settings as required.

	Hue	Saturation	Brightness
Red	▲ 0 ▼	0	0

4

1

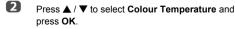
Press **BACK** to return to the previous menu.

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 ▲ / ▼ to select Colour Temperature and press OK.



- B Press ▲ / ▼ to select Cool, Natural or Warm to suit your preference and press OK.
- Press ▲ / ▼ to select Red Level, Green Level or Blue Level and press ◀ / ► to adjust the level.

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.



2 Press \blacktriangle / \bigtriangledown to select **On** or **Off** and press **OK**.

Active Backlight Control

When the Active Backlight Control feature is activated, it will control the backlighting levels depending on various scenes such as picture motion, bright scene or dark scene.

- In the Advanced Picture Settings menu, press ▲ / ▼ to select Active Backlight Control and press OK.
- Press ▲ / ▼ to select High, Low or Off and press OK.
 - High: To control the backlighting levels depending on various scenes such as picture motion, bright scene or dark scene
 - Low: To control the backlighting levels for dark scene

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 ▲ / ▼ to select Black/White Level and press OK.
- Press ▲ / ▼ to select High, Middle, Low or Off and press OK.

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.



2

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

Press ▲ / ▼ to select MPEG NR and press OK.

< Noise Reduction	
MPEG NR	Low 🕨
DNR	Auto

3

Press \blacktriangle / \bigtriangledown to select Off, Low, Middle or High to suit your preference and press OK.

NOTE: If the picture mode is set to **Game** or **PC**, this feature is not available.

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 ▲ / ▼ to select Off, Low, Middle, High or Auto and press OK. 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).

NOTE: If the picture mode is set to **Game** or **PC**, this feature is not available.

Resolution +

The **Resolution +** feature allows you to adjust the clarity levels for your desired picture settings.



In the Advanced Picture Settings menu, press ▲ / ▼ to select Resolution + and press OK.



Press ▲ / ▼ to select On or Off.

NOTE:

- This feature may not work properly depending on the content.
- Noise may appear in the picture depending on the device connected to the TV (e.g. a device with a specific enhancer function).

Cinema Mode

Cinema Mode provides smoother motion and a crisper image.



In the Advanced Picture Settings menu, press ▲ / ▼ to select Cinema Mode and press OK.

Press \blacktriangle / \checkmark to select **On**.

NOTE: When Picture Mode is set to Game or PC, this feature will be greyed 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
 ▲ / ▼ to select Reset.



Expert Picture Settings

This feature is available when the Picture Mode option is Standard, Hollywood Day, Hollywood Night, and Hollywood Pro.

Test Pattern

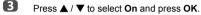
When the test pattern is on screen, you can navigate in the Picture submenus and adjust picture settings without removing the image.

When you move to a non-Picture menu, or close the menus, regular video will be restored.



In the **Picture** menu, press \blacktriangle / \blacktriangledown to select **Expert Picture Settings** and press **OK**.

2 Press \blacktriangle / \bigtriangledown to select **Test Pattern** and press **OK**.



RGB Filter

This feature individually enables or disables the red, green, and blue components of the picture to allow for more accurate adjustment of each colour.



In the Expert Picture Settings menu, press ▲ / ▼ to select RGB Filter and press OK.

Press ▲ / ▼ to select Red, Green or Blue to adjust and press OK.

- B Press ▲ / ▼ to select On and press OK.
- Press ▲ / ▼ to select Colour or Tint and press ◀ /
 ▶ to adjust.
- 5 Press OK.

NOTE: It is not possible to turn off all three colours simultaneously.

Colour Decoding

If you view DVDs with this TV, the Colour Decoding option may be set to ensure the colourimetry reproduction.

NOTE: The modes excluding Auto (BT.709 and BT.601) are to convert an irregular signal output from the DVD etc. with incorrect colour to the optimum state. If BT.709 or BT.601 is selected with a normal signal received, the colour may not be correctly displayed. This feature should normally be set to Auto.



- In the Expert Picture Settings menu, press ▲ / ▼ to select Colour Decoding and press OK.
- Press ▲ / ▼ to select Auto, BT.709 or BT.601 and press OK.

White Balance-Window Display

This feature displays a special Window Pattern to be used when adjusting white balance with a measuring device.



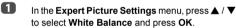
In the Expert Picture Settings menu, press ▲ / ▼ to select White Balance and press OK.



Press \blacktriangle / \bigtriangledown to select **Window Display** and press **>** and \blacktriangle / \bigtriangledown to select **On** and press **OK**.

White Balance-Setting Type

You can choose from two types of White Balance adjustment.



- **2** Press \blacktriangle / \bigtriangledown to select **Setting Type** and press **OK**.
- B Press ▲ / ▼ to select 2P or 10P and press OK.

ก

White Balance-2P White Balance

- Press ▼ to select **2P White Balance** and press **OK**.
- Press ▲ / ▼ to select Red-Offset, Green-Offset, Blue-Offset, Red-Gain, Green-Gain, or Blue-Gain. A white square will appear on the screen.
 - . ..
- B Press ◀/ ► to adjust and press OK.

White Balance-10P White Balance

- Press ▼ to select 10P White Balance.
- **2** Press \blacktriangle / \bigtriangledown to select IRE, Red, Green, or Blue.
- B Press < / ► to adjust and press OK.

NOTE: The adjustments made for Red / Green / Blue are stored separately for each IRE setting. (There are ten IRE settings from 10 to 100.)

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 >→C and ▲ / ▼ to highlight Picture icon.
 Press > and ▲ / ▼ to select Display Settings and press OK.
 Press ▲ / ▼ to select Auto Format and press OK.
 Press ▲ / ▼ to select On or Off and press OK.

Auto Format	On 🖡
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 **Display Settings** menu, press ▲ / ▼ to select **4:3 Stretch** and press **OK**.

Press \blacktriangle / \bigtriangledown to select **On** or **Off** and press **OK**.

Picture Position

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

NOTE: The Picture Position feature cannot be selected on DTV or PC Inputs.



In the **Display Settings** menu, press \blacktriangle / \blacktriangledown to select **Picture Position** and press **OK**.



Press \blacktriangle / \blacktriangledown to select an option and press \blacktriangleleft / \triangleright to adjust the settings and press **OK**.

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

Picture Position	
Horizontal Position	0 🕨
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.



1

Press \bigtriangledown to hold an image on the screen, and press \bigtriangledown again to cancel.

HDMI Information Display

When the HDMI Information Display feature is On and you are watching an HDMI input source, pressing (+) displays the HDMI signal information banner.

In the **Options** menu, press ▲ / ▼ to select **HDMI** Information Display and press OK.

Press ▲ / ▼ to select On.

HDMI signal information is as follows: Resolution, Scan Type, Frame Rate, Aspect, Bit Depth, Colour Space, RGB/YUV, Chroma Format, and Content Type (if available).

Wireless LAN Information

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 safely used 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 organisation. 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 organisation or environment, you are encouraged to ask for authorization to use the Wireless LAN device prior to turning on the equipment.

When using the TV under wireless LAN environment:

NOTE:

- When Encryption is set to "None", data transmitted over a wireless LAN is not securely protected. Unauthorized users may access your data and network without appropriate security measures. Selecting an encryption setting from your Toshiba TV and using a secure network for wireless LAN transmissions may help avoid unauthorized access to your important data and/or TV. Toshiba disclaims any and all responsibility or liability resulting from any wireless transmissions over the Internet through your Toshiba TV.
- 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.

Europe Statement

This Built-in WLAN Module may be operated in below country:

AT	Austria	IS	Iceland
BE	Belgium	LI	Liechtenstein
СН	Switzerland	LT	Lithuania
CY	Cyprus	LU	Luxembourg
CZ	Czech Republic	LV	Latvia
DE	Germany	MT	Malta
DK	Denmark	NL	Netherlands
ES	Spain	NO	Norway
FI	Finland	PL	Poland
FR	France	PT	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

- 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 20 km from the centre of Ny-Alesund in Norway.
- Make the wireless LAN appropriate security setting at the time of wireless LAN use to prevent the illegal use, spoofing and interception of communications.
- Don't connect wireless LAN to an outside network directly.

Apply the wireless LAN access point with router function or broadband router. Make the router appropriate security setting to prevent the illegal use. Refer to the manual of router for a security setting.

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TOSHIBA hereby declares that this product with an integrated wireless function is in compliance with the essential requirements and other relevant provisions of directive 1999/5/EC..

Setting up the Network

You can select the Network Type.

- Press \rightarrow and \blacktriangle / \checkmark to highlight Network icon.
 - Press ▶ and ▲ / ▼ to select Network Setup and press OK.

< Network	
Network Setup	►
Network Device Setup	
Smart Apps Setup	

3

2

Press ▲ / ▼ to select Connection Type and press ► and ▲ / ▼ to select Wired or Wireless.

connection Type	Wireless 🚿	Wired
Vireless Setup		Wireless
dvanced Network Setup		
letwork Connection Test		

4

If you selected **Wired**, see "Advanced Network Setup" on page 46.

NOTE: After you change between **Wireless** and **Wired**, switch off and on AC power supply to reset your TV. Communication may be impossible after the change of **Wireless** / **Wired**.

Wireless Setup

NOTE: Continued connection of AP (Access Point) is not guaranteed. The connection may be disconnected while watching TV.

There are 3 methods for Wireless Setup Easy Setup

If the AP supports Wi-Fi Protected Setup, this method can be used.

 Wi-Fi Protected Setup is an industry standard designed to make connection of wireless LAN equipment and security setup easy. Wi-Fi Protected Setup will automatically configure all wireless settings.

NOTE: WEP or TKIP encryption may not be able to configured by easy setup.

Assisted Setup (setup by using the AP's notification information)

Network Name, Authentication, and Encryption are decided based on information from the AP. You will manually set the Security Key.

Manual Setup (manual input of all settings)

Easy Setup using PBC (Push Button Configuration)

- In the Network menu, press ▲ / ▼ to select Network Setup and press OK.
- Press ▲ / ▼ to select Wireless Setup and press OK.
- B Press ▲ / ▼ to select Easy Setup and press OK.

< Wireless Setup	
Easy Setup	•
Assisted Setup	
Manual Setup	

- 4 Press \blacktriangleright and \blacktriangle / \bigtriangledown to select PBC.
- B Press ▼ to highlight Start Scan and press OK.
- 6 Following the on-screen instructions, push the appropriate button on your AP.
- When a window reporting that the setup is complete appears, press **OK**.

Easy Setup using PIN (Personal Identification Number)

- In the Network menu, press ▲ / ▼ to select Network Setup and press OK.
- Press ▲ / ▼ to select Wireless Setup and press OK.
- B Press ▲ / ▼ to select Easy Setup and press OK.
- 4 Press \blacktriangleright and \blacktriangle / \bigtriangledown to select PIN.
- 5 Press ▼ to select Start Scan and press OK.
- 6 Press ▲ / ▼ to select the desired AP and press OK.

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

When the PIN code window appears, enter the displayed PIN into your AP, and then press Next to continue the PIN Setup. When a message displays to report that the setup is complete, press OK.

To cancel searching for the AP:

Press **BACK** while searching for the AP. A message will appear, and then press **◄**/**▶** to select **Yes** and press **OK**.

Assisted Setup

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In the **Network** menu, press \blacktriangle / \blacktriangledown to select **Network Setup** and press **OK**.

- Press ▲ / ▼ to select Wireless Setup and press OK.
- B Press ▲ / ▼ to select Assisted Setup and press OK.

< Wireless Setup	
Easy Setup	
Assisted Setup	•
Manual Setup	

Press ▲ / ▼ 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 48). To save your setting, press the GREEN button.

NOTE:

- The Security Key must adhere to these conditions:
- AES, AES/TKIP: 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.
- 7

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

NOTE: If **Network Name** is not displayed, see step 3 and 4 in **Manual Setup** to set **Network Name** before pressing **Done**.

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

Manual Setup

- In the Network menu, press ▲ / ▼ to select Network Setup and press OK.
- Press ▲ / ▼ to select Wireless Setup and press OK.
- Press \blacktriangle / \bigtriangledown to select Manual Setup and press OK.
- Press ▲ / ▼ to select Network Name and press OK. The Software Keyboard window will appear.
- Input the Network Name by using the Software Keyboard (see page 48). To save your setting, press the GREEN button.
- C Press ▲ / ▼ to select Authentication and press ▶ and ▲ / ▼ to select Open System, Shared Key, WPA2/WPA-PSK (mixed mode WPA2/WPA) or WPA2-PSK.
- Press ▲ / ▼ to select Encryption and press ▶ and ▲ / ▼ to select None, WEP, AES/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 None and WEP can be selected for Encryption.
 - When Authentication is WPA2/WPA-PSK (mixed mode WPA2/WPA), only AES/TKIP can be selected for Encryption.
 - When Authentication is WPA2-PSK, only 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.
- B Press ▲ / ▼ to select Security Key and press OK.
- Input the Security Key by using the Software Keyboard (see page 48). To save your setting, press the GREEN button.

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

Highlight Done and press OK.

NOTE: When Encryption is None, a message will appear. Press ◀ / ► 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.

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П

Press QUICK to open the Quick Menu.



B

Press \blacktriangle / \bigtriangledown to select Wireless Information and press OK.

Intel® WiDi / wireless display	
Picture Mode	Standard
Picture Size	Wide
More Information	
Channel Options	
Sleep Timer	
HDMI CEC Device Control	
Speakers	TV Speakers
Headphone Level	30
Wireless Information	
My TV Library	
Recording Information	

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

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

Item	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)
Channel	Used channel
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 TV(Wireless) 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 44).

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** ß Auto Setup 1 In the **Network** menu, press **A** / **V** to select Network Setup and press OK. 2 Press ▲ / ▼ to select Advanced Network Setup and press OK. < Network Setup Connection Type Wireless Wireless Setup Advanced Network Setup Network Connection Test B Press ▲ / ▼ to select IP Address Setup and press OK. < Advanced Network Setup IP Address Setup DNS Setup MAC Address 8 4 Highlight Auto Setup and press ▶ and ▲ / ▼ to select On. IP Address Setup Auto Setup On Or IP Address Off Subnet Mask Default Gateway Done

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

Manual Setup

- ก In the Network menu, press A / V to select Network Setup and press OK.
- 2 Press A / V to select Advanced Network Setup and press OK.
- B Press ▲ / ▼ to select IP Address Setup and press OK.

4 Highlight Auto Setup and press \blacktriangleright and \blacktriangle / \checkmark to select Off

Auto Setup	Off 🕨 🕨	On
P Address	XXX . XXX . XXX . XXX	Off
Subnet Mask	XXX . XXX . XXX . XXX	
Default Gateway	XXX XXX XXX XXX	

- Press ▲ / ▼ to select IP Address.
- 6

Press \triangleleft / \triangleright to highlight the field you want to change, and then use the number buttons to input the IP address. To save the setting, press Done.

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



Press ▲ / ▼ to select Subnet Mask, and edit in the same way as IP Address.

Auto Setup	Off
IP Address	XXX . XXX . XXX . XXX
Subnet Mask	xxx , xxx , xxx , xxx
Default Gateway	XXX XXX XXX XXX

Press ▲ / ▼ 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.

English

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 **Network** menu, press \blacktriangle / \blacktriangledown to select **Network Setup** and press **OK**.

- Press ▲ / ▼ to select Advanced Network Setup and press OK.
- B Press \blacktriangle / \bigtriangledown to select **DNS Setup** and press **OK**.
- Press ▲ / ▼ to highlight Auto Setup and press ▶ and ▲ / ▼ to select On.

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

Manual setup

- In the Network menu, press ▲ / ▼ to select Network Setup and press OK.
- Press ▲ / ▼ to select Advanced Network Setup and press OK.
- B Press \blacktriangle / \bigtriangledown to select DNS Setup and press OK.
- Press \blacktriangle / \checkmark to select Auto Setup and press \triangleright and \blacktriangle / \checkmark to select Off.

DNS Setup		
Auto Setup	Off 🕟	On
Primary DNS Address	XXX XXX XXX XXX	Off
Secondary DNS Address	XXX XXX XXX XXX	

5

Press \blacktriangle / \bigtriangledown to select **Primary DNS Address**.

Press ◀ / ► 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 maximum value(255).

Press ▲ / ▼ to select Secondary DNS Address, and edit in the same way as Primary DNS Address.

MAC Address

You can view the fixed MAC address for the TV (Wired and Wireless).

- In the Network menu, press ▲ / ▼ to select Network Setup and press OK.
- Press ▲ / ▼ to select Advanced Network Setup and press OK.
- Press \blacktriangle / \bigtriangledown to select MAC Address and press OK.

Network Connection Test

This function checks the Internet connectivity.

- In the Network menu, press ▲ / ▼ to select Network Setup and press OK.
- Press ▲ / ▼ 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.

To cancel the Network Connection Test:

Press EXIT while testing.

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 GREEN button to save your settings 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.

Γ	Histo	у													
F															
Ľ													Clear All	Open	Done
Ē															
	q	w	е	r	t	у	u	1	0	р	-	•	1 @/	2 abc	3 def
Ľ	а	s	d	f	g	h	I.	k	1			÷	4 ghi	5 ju	6 mm
Ľ	z	x	с	v	b	n	m			8	;	T.	7 pars	8 tev	9 wxyz
		#										۲		0	

Input operation on the remote control:

Button	Description
ок	Inputs the selected character.
0-9	Selects a character for entry.
▲▼◀▶	Moves the character highlight.
RED	Deletes 1 character to the left of the cursor.
GREEN	Functions as "Done".
YELLOW	Functions as "Shift" key.
BACK	Closes the Software Keyboard window without saving changes.
Clear All	Delete all character which inputted in the Text entry field.
History	Show history of Cloud.

Network Device Setup

Apps Control Profile

Toshiba Apps allow you to control the TV from a network connected tablet or smartphone (availability is dependent on country).

In order to use this function, the Setting up the Network (see page 43) and Device Name Setup (see page 50) are required. The Device Name will display on the screen of Apps (tablet or smartphone) application.

New Device Detection

- - In the **Network** menu, press \blacktriangle / \blacktriangledown to select **Network Device Setup** and press **OK**.
- Press ▲ / ▼ to select External Control Setup and press OK.

External Control Setup	1
Media Renderer	Off
Device Name Setup	
Intel® WiDi / wireless display Setu	a

- Press ▲ / ▼ to select Apps Control Profile and press OK.
- Press ▲ / ▼ to select New Device Detection and press ▶ and ▲ / ▼ to select Enabled.

< Apps Control Profile		
Device Registration Setup		
New Device Detection	Disabled >	Enabled
		Disabled

Pairing

To use Apps, it is necessary to connect a compatible tablet or smartphone and this TV to your home network, and carry out pairing (using a 4 or 8 digit password to authenticate the device).

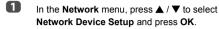
Refer to the Apps manual for more details about pairing.

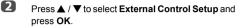
NOTE:

- Pairing with external devices cannot be carried out when the TV is connected to an unencrypted wireless LAN access point. Activate the encryption settings for the wireless LAN access point before carrying out Pairing.
- When the Enable Control is not set to ON in External Control Setup, Apps functions including Pairing cannot be used.

Device Registration Setup

Once a User Name has completed authentication, it is stored in the TV along with the password. The upper limit for the number of Use Names that can be remembered is 20. You can delete User Names that are stored in the TV.





B Press ▲ / ▼ to select Apps Control Profile and press OK.

Press ▲ / ▼ to select Device Registration Setup and press OK.

The **Device Registration Setup** screen will appear and the list of **Companion Device ID** managed by the TV will be displayed.

5

Press \blacktriangle / \blacktriangledown to highlight the Companion Device ID.

6

Press \blacktriangle / \bigtriangledown to select the **Cancel, All**, or **Delete** buttons and press **OK**.

NOTE: When re-registering a device which has been deleted from the list, registration must be carried out again.

External Record Control

This feature allows user to power on TV from external device, and they can set a timer (Recording or Reminder) from the outside of the room.



2

In the **Options** menu, press **◄** / ► to select **Power Management** and press **OK**.

Press \blacktriangle / \triangledown to select **External Record Control** and press \blacktriangleright and \blacktriangle / \triangledown to select **On** or **Off**.

NOTE: Greyed out and set to On when Location is set to Store.

Companion Device Control

When the TV is connected to the home network via Wireless LAN, with the **Companion Device Control** in **Enabled**, your TV can be turned on by control from Apps.

- In the Options menu, press ▲ / ▼ to select Power Management and press OK.
- Press ▲ / ▼ to select Companion Device Control and press ▶ and ▲ / ▼ to select On.

NOTE:

- Depending on the device connected to the home network, it may take a while for the TV to turn on.
- Depending on the device connected to the home network, this feature may not work.
- If the unencrypted Wireless Setup is done, this feature can not be used.
- The power consumption during Active Standby is more than it during Normal Standby.
- After the change from Power On state to Active Standby, there may be a period of several ten seconds which does not receive the operation from a remote control or external apparatus.

Media Renderer Setup

The TV can be configured as a media renderer. When operating as a media renderer, the TV displays content provided by a media server.

The selection of the media is done by media controller. The TV can play photo, movie, or audio files when operating as a media renderer.

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In the **Network** menu, press \blacktriangle / \blacktriangledown to select **Network Device Setup** and press **OK**.

Press \blacktriangle / \checkmark to select **Media Renderer** and press \blacktriangleright and \blacktriangle / \checkmark to select **On**.

If request comes from media controller, prompt will appear and the Media Renderer function will start.

To exit the Media Renderer:

Press EXIT.

Device Name Setup

The TV's device name can be changed.

- In the Network menu, press ▲ / ▼ to select Network Device Setup and press OK.
- Press ▲ / ▼ to select Device Name Setup and press OK.

The Device Name Setup screen will appear.

- B Press ▲ / ▼ to select **Device Name** and press **OK**. The Software Keyboard window will appear.
- Input the Device Name by using the software keyboard (see page 48). To save your setting, press the GREEN button.

NOTE:

6

- The Device Name can be up to 15 characters long.
- Only the 0-9, and A-Z (uppercase only) characters may be used for the device name.

Press ▼ to highlight **Done** and press **OK** to save your setting.

USB HDD Record Function

This function can be used to record and play digital broadcast programmes (function is dependant on country selection). Read the precautions below before recording or viewing programmes using the USB HDD record function.

NOTE:

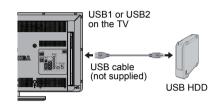
- In order to use this function, a USB HDD needs to be connected to the TV. Do not use USB Hub.
- After recording operation, time may take to a recording start.
- Recorded programmes saved on the USB HDD can only be viewed on this TV. They cannot be viewed when connected to another TV (including the same model of TV), a PC, or other device.
- You cannot watch other channel while recording one channel.
- If the recording time to the USB HDD is too short, no data may be saved.
- · You cannot record video input signals on the USB HDD.
- · Not all types of broadcast may be recordable.
- After programming the TV to record digital broadcasting, do not disconnect the power plug before recording starts.
- If there is a power failure or the power plug is disconnected after programmed recording, recording does not start unless the power returns and you press the ⁽¹⁾ button to set On the TV.
- Should video or audio recording fail due to malfunction of the TV or poor reception, no compensation would be paid.
- If there is a power failure or the power plug is disconnected during programmed recording, recording will stop and will not resume when the power returns or the plug is reconnected.
- Do not disconnect the power plug when the indicator LED is lit.
- Any changes implemented by the broadcasting station may affect programme scheduling.
- Start delay may occur while the plural continuous programmed recording.
- Accurate start / finish time for recording is reliant on broadcasters maintaining correct time stamp if this not the case the recording will fail.
- Some broadcasters can control whether a programme can be recorded or how long you may be able to view it for after recording. The on screen message "Retention limit expired" means that the time limit for viewing the program has lapsed.
- Programmed recording cannot take place if the power plug is not connected.
- Disconnecting the power plug during recording may result in failure to save the recorded programme.
- USB HDD recording feature is not available in all countries.

50

- When the USB HDD is formatted, all the data stored on the HDD will be erased.
- Locked channel cannot record (One Touch Recording, TimeShift), even if you watch the programme.
- Do not connect 2 or more USB HDD for recording at the same time.

Setting up the USB HDD for recording

To connect a USB HDD (not supplied):



When you connect a USB HDD to the USB port on the TV, a prompt will appear.



Press \triangleleft / \blacktriangleright to select **No** and press **OK**.

NOTE:

- Not guaranteed to work with all USB HDD.
- After connecting the USB HDD, select the connected USB HDD from **Select Device** in **Recording Setup**.

To record DTV programmes (One Touch Recording)

To record the programme currently being viewed.

Press the **•REC** button on the remote control. The currently viewed programme will start to be recorded.

To stop recording:

 Press the ■ (stop) button. A confirmation window "Do you want to stop Recording?" will appear.



Press \blacktriangleleft / \triangleright to select **Yes** and press **OK**. Recording will stop.

Auto Recording

The auto recording function automatically records, based on TV viewing history and other cloud service information (function is dependent on country selection).

* Auto Recording provides no guarantee of recording. To ensure recording of a particular programme, you will need to set the recording from a listing of TV programmes.

Preparations for Auto Recording

To use **Auto Recording**, the following connections and settings are required.

- Connections for using the Internet (Page 58)
- Settings for using the Internet (Page 12)
- Set External Record Control to On (Page 49)
- Setting the USB HDD for recording (Page 51)
- · Set Auto Recording to On

About Auto Recording

<Auto Recording Settings>

Press A to display the cloud service screen, and make the settings in the cloud service screen.

About Recording

A maximum of 64 programmes can be scheduled for auto recording.

- When **Auto Recording** is set to **On**, the maximum number of timer for manual recording changes to 64 from 128.
- When the number of the timers for manual recording is set over 64, auto recording cannot be set **On**.

USB Hard Disk Recording Region

- For auto recording, a USB hard disk with a capacity of at least 160 GB, and not more than 2 TB can be used. (For manual recording there is no lower limit on capacity.)
- Auto recordings is allocated a recording region of 40 % of the USB hard disk, separate from manual recordings.
 - Note that the manual recording region together with the auto recording region occupies the entire capacity of the USB hard disk.
- You can record up to 2000 programmes by manual recording and auto recording combined.

Recording Schedule and Recorded Programmes with Auto Recording Enabled

When Auto Recording is enabled, the scheduled auto recording items in My TV Timer List are shown with an to, and "Auto Rec" is added to the My TV Library tab.

About Automatic Deletion of Auto Recordings

- For auto recordings, when the auto recording region is full, auto recordings are automatically deleted from the oldest programme.
 - Automatic deletion of auto recordings cannot be disabled.
- Auto recording schedule items and auto recordings can be changed to manual recording schedule items or manual recordings by the following operations.
 - For auto recording schedule items, change to manual recording schedule with the Edit Timer.
 - For auto recordings, **Quick Menu** in the **My TV** Library, use Change to Manual Rec to change to manual recording.

Notes on Auto Recording

- If you switch off Auto Recording, or set External Recording Control to Off, then all Auto Recording schedules are deleted.
- Auto recordings are not deleted.
- When Auto Recording is set to On, if you replace the hard disk, then Auto Recording may fail.

How to set recordings via the Programme Guide

Programmed recording can be scheduled easily using the Programme Guide or by specifying the date and time.

PLEASE NOTE

When a timed programme is about to start, an information screen will appear offering the option of watching or cancelling the programme. 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.

Using the Programme Guide to set future recordings

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2

Press **GUIDE** on the remote control to display the Electronic Programme Guide (EPG).

- Press ▲▼◀▶ to highlight the programme you want to record and press **OK**.
- **B** The Edit Timer screen will appear. Press \blacktriangle / \checkmark to select Timer Type.

Edit Timer	10:50 Tue, 26 Apr
Working Lunch 2 BBC TWO 12:30 - 13:00 Tue, 26 Apr	
Timer Type	Recording
Set Timer	Delete Timer
OK	Enter

- Press ➤ and ▲ / ▼ to select Recording and press OK.
- B Press ▲ / ▼ to highlight Set Timer and press OK.

To search for and record a programme using Genre Search:

Press the YELLOW button on the remote control to access the Genre Search screen.

5	Movie 🕨 🖳	1 💶 💌 🐻 🕮	Ô	' ê
34	AB1	Hard Rain	Wed,27 Apr	0:15-1:45
31	PARIS PREMIERE	Red Corner	Wed,27 Apr	22:15-23:55
11	NT1	The Lawnmower Man	Thu,28 Apr	1:20-3:00
9	W9	A Vow to Kill	Fri,29 Apr	1:30-3:00
34	AB1	Parenthood	Sat,30 Apr	0:45-2:40
11	NT1	Body and Soul	Sat,30 Apr	1:15-3:00
31	PARIS PREMIERE	The Nun's Story	Sat,30 Apr	15:00-17:30
9	W9	Red Corner	Sat,30 Apr	23:20-1:15
11	NT1	The Real Blonde	Sun,1 May	0:40-2:00
31	PARIS PREMIERE	Critters	Sun,1 May	0:40-2:20
11	NT1	Indiana Jones and the Temple of Doom	Sun,1 May	21:10-23:20
11	NT1	The jackal	Sun,1 May	23:20-1:15
34	AB1	Coup De Ville	Mon,2 May	1:10-3:00

- 2 Press ◀ / ► to select the genre. Programmes listed will change for the new genre. Press ▲ / ▼ to select the programme for which you want to schedule recording.
- B Press OK. The Edit Timer screen will appear. Press \blacktriangle / \bigtriangledown to select Timer Type.

Edit Timer	10:50 Tue, 26 Apr
Working Lunch	
2 BBC TWO	
12:30 - 13:00 Tue, 26 Apr	
Timer Type	Recording
Set Timer	Delete Timer
ОК	Enter

- 4 Press \blacktriangleright and \blacktriangle / \bigtriangledown to select **Recording** and press OK.
- 6 Press ▲ / ▼ to highlight Set Timer and press OK.

To programme the timer:

- n Press the **BLUE** button on the remote control.
- 2 Select the unprogrammed column (blank column) and press OK.

The Edit Timer screen will appear. Press \blacktriangle / \bigtriangledown to select Timer Type.

Edit Timer	3:51 Tue, 22 Apr
Timer Type	Reminder
Channel	1 ABC HDTV
Date	Tue, 22 Apr 2008
Start Time	03:50
End Time	04:50
Repeat	Once



4

- Press ▶ and ▲ / ▼ to select Recording and press OK.

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

 Channel Select the channel you wish to record.

- Date Select the date that you wish recording to start.
- Start Time Select the time to start recording.
- End Time Select the time to end recording.
- Repeat Select "Once", "Daily" or "Weekly".

Once	The selected content is recorded once.
Daily	The same time slot on the same channel is recorded every day on and after the selected day.
Weekly	The same time slot on the same channel on the same day of the week is recorded on and after the selected day.

5 Press ▲ / ▼ to highlight Set Timer and press OK.

To schedule a programme using the information screen:

Press (+), the information screen will appear giving details of the channel and programme currently being viewed.

4	CHANNEL Z	-A+ al	6:00 Thu, 11 Oct
©∬ad	English]	



2

Press ▲ / ▼ to select Next and press OK. The Edit Timer menu will appear.

Press 🔺 / 🎙	V	to select	Imer	Type

Edit Timer	10:50 Tue, 26 Apr
Working Lunch 2 BBC TWO 12:30 - 13:00 Tue, 26 Apr	
Timer Type	Recording
Set Timer	Delete Timer
ОК	Enter

- B Press ▶ and ▲ / ▼ to select Recording and press OK.
- Press \blacktriangle / \checkmark to highlight Set Timer and press OK.

To check, edit or delete scheduling information

You can check, edit or delete scheduling information.

 Press GUIDE and then press the BLUE button. My TV Timer List screen will appear.

My TV Timer List

- Depending on the transmitter information, the programme broadcast time or other information may not be correctly displayed in the recording list.
- The recording programme does not appear in the **My TV Timer** list.
- Up to 128 programmes can be displayed in the recording list.
- If the channel settings are changed, the digital channel number, or other information may not appear correctly in the recording list.
- As the displayed programme time is calculated from the actual recording information, it may not match the recording time on the USB HDD.

To check a schedule:

 Press ▲ / ▼ on the My TV Timer List screen to check the schedule.

To edit a schedule:

- P s
 - Press \blacktriangle / \bigtriangledown on the **My TV Timer List** screen to select the title whose schedule you want to edit and press **OK**.

The **Edit Timer** screen will appear. Change the settings as required, following the same procedure as for setting the schedule.

- 2
- Press \blacktriangle / \bigtriangledown to highlight **Set Timer** and press **OK**.

To delete a schedule:



Press ▲ / ▼ on the My TV Timer List screen to select the title whose schedule you want to delete.

Press the RED button. Press ◀/▶ in the displayed confirmation window to select Yes and press OK. The selected schedule will be deleted.

NOTE: You can also delete a schedule by selecting **Delete Timer** from the **Edit Timer** menu for each programming method.

To view a recorded programme

To view the recorded **My TV Library** screen and select a title from the recorded programme list.

Press And highlight **My TV Library** icon or select **My TV Library** from **Quick Menu** and press **OK**. The **My TV Library** screen will appear.

y TV Library / All		14:15 Wed, 16 Fe
All		
Sort : New	3/5	
wwwwww	Wed, 16 Feb 10:00	
	Wed, 16 Feb 10:00	
wwwwwww	Thu, 17 Feb 10:00	A DEPARTMENT
wwwwww	Thu, 17 Feb 10:00	
• www.www	Fri, 18 Feb 10:00	1235 ITV London
wwwwwww	Fri, 18 Feb 10:00	ASTRA 19.2°E
wwwwww	Fri, 18 Feb 10:00	10 July 2011 14:30(01:30
wwwwww	Sat, 19 Feb 10:00	USB HDD3
wwwwwww	Sun, 20 Feb 10:00	Remaining Capacity: 86% (912.0GB)
wwwwwww	Sun, 20 Feb 10:00	00/0 (012.00D)
wwwwwww	Sun, 20 Feb 10:00	
wwwwwww	Mon, 21 Feb 10:00	-

Press ▲ / ▼ to select the title you want to view. A preview of the content selected can be seen on the preview screen.

To change the order in which the titles are listed, press the $\ensuremath{\textbf{BLUE}}$ button.

Press OK.

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П

Viewing starts.

• icon appears next to the title currently being recorded.

When the title currently being recorded is selected and **OK** is pressed, playback will start from the beginning of the programme currently being recorded.

Operations during viewing

The following operations can be performed using the remote control buttons.

•	To PLAY	••	To FAST FORWARD
	To STOP	▶►	To SKIP- FORWARD
п	To PAUSE	4	To shift playback position
H44	To SKIP-BACK		
◄	To REWIND		

Operations from the My TV Library screen

As well as viewing the list of recorded titles on the My TV Library screen, you can protect or delete titles and register titles to Personal Mode.

To display the My TV Library screen:

Press And highlight My TV Library icon and press OK. The My TV Library screen will appear.

y TV Library / All		14:15 Wed, 16 Fe
All		
Sort : New	3/5	
wwwwww	Wed, 16 Feb 10:00	
	Wed, 16 Feb 10:00	
wwwwwww	Thu, 17 Feb 10:00	A PARTY
wwwwww	Thu, 17 Feb 10:00	
• www.www	Fri, 18 Feb 10:00	1235 ITV London
wwwwwww	Fri, 18 Feb 10:00	ASTRA 19.2°E
wwwwww	Fri, 18 Feb 10:00	10 July 2011 14:30(01:30
wwwwwww	Sat, 19 Feb 10:00	USB HDD3
wwwwwww	Sun, 20 Feb 10:00	Remaining Capacity: 86% (912.0GB)
wwwwwww	Sun, 20 Feb 10:00	
wwwwwww	Sun, 20 Feb 10:00	
wwwwwww	Mon, 21 Feb 10:00	-

To protect or unprotect a recorded programme:

Protecting a programme prevents it from being accidentally deleted.

Select the title of the programme you want to protect and press the **GREEN** button. A icon appears next to the title and the programme is protected.

If Protect is set to **On** when the programme is recorded, icon appears next to the title of the recorded programme.

When a title with f icon is selected and the **GREEN** button is pressed, f icon disappears and the programme is unprotected.

To group the recorded programmes

Press the **YELLOW** button. A grouping mode window will appear.

Week: Grouping the recorded programme by the

day (Sunday - Saturday)

Genre: Grouping the recorded programme by the genre.

To change the title of recorded programme

Press QUICK when the My TV Library screen is displayed.

Press ▲ / ▼ to select Title Edit and press OK. The Software Keyboard window will appear.

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Input your desired title by using the software keyboard (see page 48). Press the **GREEN** button to save your settings.

To delete a recorded programme:



3

Press the **RED** button. Check boxes will appear next to the titles.

Press ▲ / ▼ to select the title you want to delete and press OK. A check mark will be inserted in the check box.

My TV Library / All	
All	
Sort : New	
WWWWWW	Wed, 16 Fe
	Wed, 16 Fe
WWWWWWW	Thu, 17 Fe
WWWWWWW	Thu, 17 Fe
wwwwwww	Fri, 18 Fe
wwwwww	Fri, 18 Fe
VWWWWWW	Fri, 18 Fe
WWWWWWW W	Sat, 19 Fe

To insert a check mark against all the titles, press the **YELLOW** button.

To uncheck all the check boxes, press the **BLUE** button.

NOTE:

B

- A check mark will not be inserted against protected titles.
- Note that once deleted, a title cannot be restored.

Press the RED button.

Select **Yes** in the confirmation window and press **OK**.

All the titles with check marks will be deleted.

USB HDD capacity

You can check the remaining capacity of the USB HDD using **Remaining Capacity**.

Thu, 17 Feb 10:00	
Thu, 17 Feb 10:00	
Fri, 18 Feb 10:00	1235 ITV London
Fri, 18 Feb 10:00	ASTRA 19.2°E
Fri, 18 Feb 10:00	10 July 2011 14:30(01:30)
Sat, 19 Feb 10:00	USB HDD3
Sun, 20 Feb 10:00	Remaining Capacity: 86% (912.0GB)
Sun, 20 Feb 10:00	00 /0 (912.0GB)
Sun, 20 Feb 10:00	N
Mon, 21 Feb 10:00	v

NOTE: The remaining capacity displayed is only a guide; it is not guaranteed.

Recording Setup

You can set your preferences for recording.

To select USB HDD and Partition for Recording:

- Press \rightarrow and \land / \checkmark to highlight Options icon.
- Press ▶ and ▲ / ▼ to select **Recording Setup** and press **OK**.
- Press ▲ / ▼ to select Select Device and press OK. USB HDD and Partition list will be appear. If USB HDD is partitioned by PC, several partitions will be displayed.

Select Device	
One Touch Recording Time	120 Minutes
TimeShift Size	4GB
Start Padding Time	None
End Padding Time	None
Device Test	
Format Device	

4 s

Select USB HDD and Partition you want to recording.

To set the recording time for One Touch Recording:

- Press $\rightarrow c$ and \blacktriangle / ∇ to highlight Options icon.
- Press ▶ and ▲ / ▼ to select **Recording Setup** and press **OK**.



Press \blacktriangle / \checkmark to select **One Touch Recording Time** and press \blacktriangleright and \blacktriangle / \checkmark to select the recording time.

Select Device		Programme End Tim
One Touch Recording Time	120 Minutes 🕨	30 Minutes
TimeShift Size	4GB	60 Minutes
Start Padding Time	None	90 Minutes
End Padding Time	None	120 Minutes
Device Test		150 Minutes
Format Device		180 Minutes
		210 Minutes
		240 Minutes
		270 Minutes
		300 Minutes
		330 Minutes

For the recording time, you can select the **Programme End Time**, or you can set the time in 30 minute increments in the range of 30 minutes to 360 minutes.

To select the TimeShift Size:

- In the **Recording Setup** screen, press \blacktriangle / \blacktriangledown to select **TimeShift Size**.
- Press ► and ▲ / ▼ to select 512 MB, 1 GB, 2 GB or 4 GB and press OK.

To use TimeShift recording:

Time Shift recording allows you to pause live TV for a fixed period of time.

For Example: If you move away from the TV for a short period, such as when the phone rings while you are watching TV, you can easily pause live TV and then continue to view from the same point in the programme when you return.

	-	-
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u		

Press **II** on the remote control while viewing the DTV programme.

The screen will switch to a still image and recording will start automatically.

The recording time is decided by **TimeShift Size**. If the TimeShift file size reaches the limit set, then the TV will continue to be paused, but the oldest recorded data will be disappeared up to a maximum of the **TimeShift** Size.

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Press ► (play). Catch-up viewing will start from where the

programme was paused.



Press \blacksquare (stop) to stop the recording.

To set the padding time for programmed recording start time and end time:



In the **Recording Setup** screen, press ▲ / ▼ to select **Start Padding Time**.



Press \blacktriangle / \blacktriangledown to select a time.

You can select from None, 3 Minutes, 5 Minutes, 10 Minutes, 15 Minutes, 30 Minutes, and 45 Minutes.

Recording will start at the selected number of minutes prior to the recording start time.





Press \blacktriangle / \blacktriangledown to select a time.

You can select from None, 3 Minutes, 5 Minutes, 10 Minutes, 15 Minutes, 30 Minutes, and 45 Minutes.

Recording will end at the recording end time plus the selected number of minutes.

To perform a USB HDD operation test:

In the **Recording Setup** screen, press ▲ / ▼ to select **Device Test** and press **OK**.

USB HDD operation test will start. Wait until the test ends.

NOTE: The results of the device test are only a guide. The device may not function as shown in the results.

To format a USB HDD:

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n

In the **Recording Setup** screen, press \blacktriangle / \blacktriangledown to select **Format Device** and press **OK**.

Press 4 / > to select Yes in the confirmation window that will appear and press OK. Formatting will start.

Wait until formatting ends.

NOTE:

- If the USB HDD is separated several partitions by PC and multiple Partition appear on the **Device List** screen, press ▲ / ▼ to select the Partition you want to format.
- When the USB HDD (or Partition) is formatted, all the data stored on the USB HDD (or Partition) will be deleted.

Scheduling priority

If scheduled time slots are next to each other and there is more than one minute between the end time of the first schedule and the start time of the next schedule, programmed recording will be performed correctly.

• When **Start Padding Time** and **End Padding Time** are set (see page 57), the start time and end time will be the time plus the additional minutes.

If scheduling times overlap, priority will be given to the programmed recording which starts first. When the programmed recording that started first ends, recording will switch to the next scheduled programme. At this time, depending on how far the scheduling times overlap, the beginning section of the next scheduled programme may not be recorded.

¹

Using the Smart TV Cloud services

Toshiba's universal portal for internet content and services (services are dependent on country), offering you a multitude of smart features. For detailed information on how to access and use those features, please refer to our website http://www.toshiba.eu/smarttv

NOTE:

- You need to configure a home network before using this feature (see page 12).
- This service may not be available or the contents may change depending on the service side.

1 Press 🔼

The menu screen of the Smart TV Cloud services will appear.



Press $\blacktriangle \forall \blacklozenge \flat$ to select a Smart TV Cloud services, and press **OK**.

For the operations of the Smart TV Cloud services, refer to Cloud Guide.

Using Web Browser

The web browser on this TV lets you explore everything the web has to offer. Along with access to popular places, you'll be able to search for and browse your favourite sites.

NOTE:

- Certain services may not be currently available in your area.
- Your registration or login may be required to use some services.
- Third party internet services are not provided by Toshiba, may change or be discontinued at any time and may be subject to Internet service provider restrictions. 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 the creation of a separate account through a computer with Internet access and/or payment of one-time and/or recurring charges and membership.

Not all third party services may be available on or compatible with this product. In order to experience the full suggested capabilities of this product, fullycompatible devices may be required.

- does not support platform-dependent technologies such as Active X.
- only supports preinstalled plug-ins.
- may not support media formats other than the following: JPEG/PNG/GIF.
- uses a single built-in font. Some text may not be displayed as intended.
- does not support downloading of files or fonts.

- is a TV browser. It may work differently than PC browsers.
- does not support parental control or locks in the content, and it is the responsibility of the you to monitor browser usage by minors.
- Some pages may not be displayed correctly or may display differently on different devices.
- · Certain services may not be available in your area.

To use the web browser

NOTE: You can change the mouse mode (Mouse Emulation or Navigation) by pressing the **GREEN** button on the remote control when the web contents screen is open.

- Press on the remote control and select Internet icon to open the web browser.
- Press ▲▼◀► to select the URL address bar and press OK.
- B Enter the desired URL address by using the Software Keyboard (page 48).

Press the **GREEN** button on the remote control.

You can now browse websites on your TV using
 ▲▼◀▶ buttons on the remote control.

To Add Favourites Websites

By adding frequently visited websites to Favourites, you can browse them easily. You can view the addresses of the websites you visited previously.

- Press on the remote control and select **Internet** icon to open the web browser.
- 2 Enter the desired URL address by using the Software Keyboard (page 48).
- B Press ▲▼◀▶ to scroll Favourites STAR on the Toolbar and press OK.
- Press OK to save the desired website to your Favourites.
 You can prese the CREEN button on the romatic

You can press the **GREEN** button on the remote for thumbnail view of all your Favourites.

Press BACK on the remote to return to browsing your website.

NOTE: The desired website is highlighted and displayed on the top row with the + icon. The + icon will change to a page icon after the website has been saved to Favourites.

To browse favourite websites



n

Press 🛆 on the remote control and select Internet icon to open the web browser.

2 Use ▲▼◀► to select Favourites STAR and press OK.



Select the item or folders to move to the desired URL address and press **OK**.



You can now browse websites on your TV using $\blacktriangle \forall \blacklozenge \flat$ on the remote control.

PIP (Picture-in-picture) function

When viewing the web browser page, currently airing programmes or images from external inputs can be displayed in a PIP window (sub-screen).



Press the **RED** button while viewing the web browser page.

The currently airing programme or images from external inputs are displayed in a PIP window.

NOTE:

- The position of the PIP window, and whether it is displayed or not can be changed by pressing the RED button.
- PA and PV buttons cannot be used when the PIP window is displayed.

To stop displaying the PIP window:

After the PIP window is displayed on the upper right, if you press the RED button, the PIP window will disappear.

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).
- For selected countries, factory default setting HbbTV is enabled. Once you establish a network connection TV broadcasters may monitor your TV user behaviour.
 Please disable HbbTV if you do not agree with this option.
- Press \rightarrow and \checkmark / \checkmark to highlight Options icon.
- **2** Press \blacktriangleright and \blacktriangle / \bigtriangledown to select Hybrid TV Standard.
 - Press \blacktriangleright and \blacktriangle / \bigtriangledown to change from **Disabled** to **Enabled** and press **OK**.

When "**press RED**" is indicated on the screen, press the **RED** button to access HbbTV service site, and then press $\blacktriangle \lor \blacklozenge \lor$ to select the desired contents.

NOTE:

B

- 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.
- Once Hybrid TV Standard is enabled TV stations may receive information about your particular user behaviour. For further details please refer to the HbbTV conditions of use displayed on the station you are watching.
- Toshiba makes no warranties, representations, or assurances about the content.

Using Intel[®] WiDi / wireless display

 $Intel^{(6)}$ WiDi / wireless display is supported on this TV. You can use your TV as second display for PC with $Intel^{(6)}$ WiDi or other device.



Press QUICK to open the Quick Menu.

2

Press \blacktriangle / \bigtriangledown to select Intel[®] WiDi / wireless display and press OK.

A prompt will appear on the screen. Select Yes.

3

Operate your PC or other device to display the screen on the TV.

Connecting your PC or other device to your TV the first time

When selecting the Toshiba TV for the first time, a 8-digit code will appear on your TV screen. This code needs to be inputted into your computer to authenticate the connection.

If authentication has already taken place

"Connected to Intel[®] WiDi. Please Wait" will appear on screen.

Some devices can connect to your TV without the initial 8-digit code input.

Some devices connect without 8-digit code for the first time.



After the Intel[®] WiDi / wireless display connection is complete, the TV screen will mirror the content shown on the device screen.

NOTE:

- When connecting Intel^ ${}^{(\!\! B)}$ WiDi / wireless display, PC or other device must have power turned on.
- When the Intel[®] WiDi / wireless display is active, and the Connection Type is set to Wireless, other applications may not be usable.
- Intel^ \mbox{WiDi} / wireless display device name of the TV can be changed from the Intel \mbox{WiDi} software.

To exit Intel[®] WiDi / wireless display:

Exit Intel[®] WiDi / wireless display by disconnecting from the connected device or by pressing EXIT on the TV remote control.

NOTE: If the PC or other device has been inactive for some time, the $Intel^{\textcircled{B}}$ WiDi / wireless display connection will be disconnected automatically.

For more information and supported devices please visit http://www.Toshiba.eu.

Intel[®] WiDi / wireless display Device Name

The TV's Intel[®] WiDi / wireless display device name can be changed.

- In the Network menu, press ▲ / ▼ to select Network Device Setup and press OK.
- Press ▲ / ▼ to select Intel[®] WiDi / wireless display Setup and press OK.
- B Press ▲ / ▼ to select Intel[®] WiDi / wireless display Device Name and press OK.
 - Select **Device Name** and press **OK**. The Software Keyboard window will appear.

4

Input the Intel[®] WiDi / wireless display device name by using the software keyboard (see page 48). Press the GREEN button.

Device List

Device List displays a list of MAC addresses for previously connected device that have been connected before. The maximum number that can be stored is 20.

If the list runs out of space, the least-recently-used MAC address will be deleted and the new MAC address added automatically.



In the **Intel[®] WiDi** / wireless display Setup screen, highlight the **Device List** and press **OK**. Device List will appear.

The registered MAC Address can be deleted one by one by pressing $\mbox{\bf RED}$ key in the List.

When doing so a prompt will appear on the screen. Select Yes.

Using My Contents

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.

NOTE:

- · Do not insert/remove USB device while in use.
- MENU is not available during playback.
- When you want to use your TV as a media renderer, set Media Renderer to On (see "Media Renderer Setup" on page 49).

My Contents 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: Depend on file system

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 My Contents with USB

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

To change the Auto Start setting:

- 1 Press $\mathbf{P} = \mathbf{C}$ and $\mathbf{A} / \mathbf{\nabla}$ to highlight **Options** icon.
- 2 Press > and (V to select My Contents Setup and press OK.
- B Press A / V to select USB Auto Start and press ок
- 4 Press \blacktriangle / \bigtriangledown to select **On** or **Off**.

To set the List Mode

- n In the My Contents Setup menu, press A / V to select List Mode and press OK.
- 2 Press ▲ / ▼ to select Videos, Music or Photos.
- B Press **A** / **V** to select **Preview Mode** or **Icon** Mode and press OK.

In Icon Mode where response is faster, previews, thumbnails, and some information (total time, etc.) are not shown.

In Preview Mode also, depending on the server or the content, there may be no thumbnails for Photos

Auto Start

- n Insert a USB device into the USB port. A prompt will appear.
- 2

Press ◀/ ► to select Yes and press OK.

ß Press A / V to select Videos. Music or Photos and press OK.

NOTE: If Auto Start is set to Off, you can start the My Contents manually.

Manual Start

ก Insert a USB device into the USB port.

2 Press 🛆 and select My Photos, My Videos, or My Music icon and press OK.

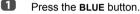
Files are displayed in the List View according to the category (Videos, Music or Photos) and device you last selected.

To select a file in the list of contents:



2 Press **OK** to move to the next laver, or press BACK to return to the previous layer. When you select a file, press OK to play or view.

To move to the tab selection:



To close the My Contents:

n Press EXIT and select Yes and press OK on the wobriw augoa

Using the My Contents with a media server

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

- ก Press A and select My Photos, My Videos, or My Music icon and press OK.
- 2 OK.

3

62

- Press **AV** to select **Devices** icon and press
 - Press \blacktriangle / \bigtriangledown to select a device and press **OK**.

List of Contents

▶ Videos ○ Music ◎ P	hotos	Q Search
Devices: CTV-5	Sort: Title	
	Total time/Date	
🗂 🕞 Video	23:59, Wed, 31 Dec 1969	
🗂 🕞 Music	23:59, Wed, 31 Dec 1969	
🔄 🕥 Photos	23:59, Wed, 31 Dec 1969	
🗂 🕞 User Files	23:59, Wed, 31 Dec 1969	

Videos, Music and Photos files and folders are displayed in the list of contents.

To select a file in the list of contents:



Press $\blacktriangle \forall \blacklozenge \flat$ to select a file or folder.

Press OK to move to the next layer, or press BACK to return to the previous layer. When you select a file, press OK to play or view.

To sort files (if available):

You can sort files by file name (title) or date accordingly.

1

Press $\blacktriangle \forall \blacklozenge \flat$ to highlight **Sort** and press **OK**.



Press \blacktriangle / \blacktriangledown to select File Name (Title), New or Old and press OK.

To Search for content (if available):



Press $\blacksquare \blacksquare \blacksquare$ to highlight **Search** and press **OK**.

Select the text box and press **OK**, the Software Keyboard window will appear (page 48). Input keyword by using the Software Keyboard and the search will search for:

Network

Videos: Title name Music: Title name/Artist name/ Album name Photos: Title name USB Videos/Music/Photos: File name.



Select **Devices** and **Category** and press **OK**. The list of search result will appear.

To display the Device Information or Wireless Information:



Press QUICK to open the QUICK Menu.



Press \blacktriangle / \bigtriangledown to select any of the following item.

Using with Network device: **Device Information** Using with Wireless: **Wireless Information**

To close the My Contents:

Press EXIT and select Yes and press OK on the popup window.

Viewing photo files (on a media server or USB device)

There are two types of viewing modes.

Photos List (USB and Network Player Photo)

This view allows you to search for photos in a grid format. The pictures are displayed using thumbnail data in each image file depending on the setting of the **List Mode** and the server.

Videos	© Musi	c 🛄 Ph	otos			Search
Devices:	/usb/s	da1	Sor	t: File N	ame	
🖄 /DCII	M					
6	10.00	10.0	Steller.	-	-	
	a the set			<u>, 18 6</u>	0	
0	0	0	0	0	0	
0	0	0	0	0	0	Boulder002HD.jpg 01:00, Fri, 28 Dec 1984
0	0	0	0	0	0	

The initial highlighted position will be on the top left thumbnail in the Photos List.

1

Press $\blacktriangle \lor \blacklozenge \lor$ to move the highlight in one window.

☆ or ⇒ buttons can be used to page up/down the Photos List when there are more photos than will fit onto one screen. When the ☆ or ⇒ buttons are pressed, the highlight shall be on the photo at the top left of Previous/Next Photos List.

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.



Press **OK** to view the selected photo in Single View mode.

Single View (USB and Network Player Photo)

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 Photos List to Single View, the currently selected photo will be displayed.



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



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 the devices.

Slide Show (USB and Network Player Photo)

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.



2

B

To start Slide Show, press **OK** in the Single View mode.

Press ◀ / ► to view the previous/next photo.

Press (i+) to display file status information. Press OK to return to Single View.

To set Interval Time and Repeat settings:



Press QUICK to open the Quick Menu.

2

Press \blacktriangle / \bigtriangledown to select either **Interval Time** or **Repeat**.

B Press ► and ▲ / ▼ to adjust the setting and press OK.

To rotate the image:

While viewing the image in Single View or Slide Show mode, the image can be rotated 90°.

- ▲ button: Clockwise rotation
- ▼ button: Counterclockwise rotation

To set Background Music (USB only):

- Press QUICK to open the Quick Menu.
- Press ▲ / ▼ to select Background Music and press ▶ and ▲ / ▼ to select On.

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

NOTE:

- 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 (USB and Network Player Photo):

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

RED button (Zoom in)

 $x1 \rightarrow x2 \rightarrow x4 \rightarrow x8$ zoom in

GREEN button (Zoom out)

 $x8 \rightarrow x4 \rightarrow x2 \rightarrow x1$ zoom out

▲▼◀ ▶ 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 (USB and Network Player Photo):

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

- Press QUICK to open the Quick Menu from Single View mode or Slide Show mode.
- Press ▲ / ▼ to select Play List and press OK. The Photos List will appear.
- B Press ▲ / ▼ to select a file name.

To close the Photo Viewer:

1

Press **EXIT** and select **Yes** and press **OK** on the popup window. The television will return to the last viewed channel or external input.

File Compatibility

See page 90.

Viewing movie files (on a media server or USB device)

You can select movies from a **Videos List** of available files.

Videos List (USB and Network Player Movie)

Videos O Music Photos	
Devices: /usb/sdb Sort: File Name	
1/12334567891123456789212345678931 Total time/Date	
▶ VTS_01_1.mpg /usb/sdb 16:40, Wed, 09 Jan 2013	
	00:00:33 00:01:59
	VTS_01_1.mpg 16:40, Wed, 09 Jan 2013

Press ▲▼◀ ► to select a file or folder. ♠ or ⋟ buttons can be used to page up/down the Videos List 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. Preview is displayed only on the **Preview Mode**.
- Depending on the file size, it may take some time to start playback.



NOTE:

n

• If playback finishes before ■ is pressed, the screen will return to the Videos List.

During playback:

Press II to pause. PAUSE may not be available depending on the contents or media server.

- To resume normal playback, press ► (play).
- To play in fast reverse or fast forward directions, press
 ◄◄ / ▶► during playback. Each time you press the ◄◄ /
 ▶►, the playback speed will change.
- Press I to playback from the beginning of currently selected file. Press >> to locate subsequent files.
 Fast reverse and fast forward may not be available depending on the contents or media server.
- 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 the devices.
- 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 OI/I repeatedly to select your preferred audio language.

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

To set the repeat mode:

- Press QUICK to open the Quick Menu.
- Press ▲ / ▼ to select Repeat and press ▶ and ▲ / ▼ 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.

B Press BACK.

NOTE:

- · The setting is effective until the TV is turned off.
- · This setting is ignored in the network media renderer.

You can resume playback from where it was last stopped.

Press ■ while playing the movie to memorize the stopped position.

NOTE:

- The memorized stopped position will be deleted in any of the following cases.
 - Play different content
 - Exit My Contents
 - Press 🔳 in the Videos List
- This function may not be available depending on the content or the device.

To select a movie from Play List (USB and Network Player Movie):

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



Press QUICK to open the Quick Menu.

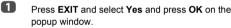


Press ▲ / ▼ to select **Play List** and press **OK**. The Movie List will appear.



Press ▲ / ▼ to select a file name.

To close the Movie Viewer:



File Compatibility

See page 90.

To register your TV to a DivX[®] account:

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



2

ก

In the **My Contents Setup** menu, press ▲ / ▼ to select **DivX[®] VOD** and press **OK**.

Press \blacktriangle / \blacksquare to select **DivX**[®] **VOD Registration** and press **OK**.

< DivX® VOD			
DivX® VOD Registration	•		
DivX® VOD Deregistration			

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 deregistration your device:

- In step 2 above, select **DivX[®] VOD Deregistration**, and then press **OK**.
- A confirmation message will appear. Select **Yes** and press **OK**.
- The DivX[®] VOD window will appear and you will see the deregistration 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, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified[®] device that has passed rigorous testing to verify that it plays DivX video. Visit <u>divx.com</u> for more information and software tools to convert your files into DivX videos.

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 <u>vod.divx.com</u> for more information on how to complete your registration.

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

This device supports DivX Plus Streaming[™] for enjoying HD movies and TV shows with advanced features (multilanguage subtitles, multiple audio tracks, chapters, smooth FF/RW, etc.) streamed to your device.

To playback DivX Plus HD content:

- To play in fast reverse or fast forward directions, press
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- 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 → to skip to the beginning of the next chapter. When → is pressed twice in succession, it will repeat two times of above. If → is pressed at the last chapter, the confirmation message will appear. If you select Yes, 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 the confirmation message will appear. If you select Yes, playback will skip to the beginning of the previous content.

Press \blacktriangle to skip to the beginning of the previous file. Press \blacktriangledown to skip to the beginning of the next file.

The Number button is used for direct jump. If the 3 button and **OK** button is pressed, playback will jump to the beginning of 3rd chapter.

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 / \P .

Pressing \blacktriangleleft / \blacktriangleright also changes the multi title.

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

Playing music files (on a media server or USB device)

You can listen to music from a **Music List** of available files.

Music List (USB and Network Player Music)

_		
Devices: /usb/sda1	Sort: File Name	
	Total time/Date	
🗂 🕖 XXXXXXXXXX 🔿	08:22, Web, 31 Oct 2012	
	13:00, Mon, 23 Jan 2012	
C () XXXXXXXXXX ()	14:24, Tue, 01 Mar 2011	



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 **Music List**. When OK is pressed, it is played in full screen mode.

Press ■ to stop playback.

NOTE:

B

- 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 to pause.

PAUSE may not be available depending on the contents or media server.

- To resume normal playback, press ► (play).
- To play in fast reverse or fast forward directions, press
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- Press I to playback from the beginning of currently selected file. Press ➡ to locate subsequent files.

П

To set the repeat mode:

- Press QUICK to open the Quick Menu.
- 2 Press **A** / **V** to select **Repeat**.

R Press \blacktriangleright and \blacktriangle / \bigtriangledown 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:

- The setting is effective until the TV is turned off.
- When the TV is used as a media renderer, this feature cannot be used

To select a music file from Play List (USB and **Network Player Music):**

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



Press QUICK to open the Quick Menu.



Press ▲ / ▼ to select Play List and press OK. The Music List will appear.



Press ▲ / ▼ to select a file name.

To display the file status information:

n 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 the devices.

To close the Music Player:



File Compatibility

See page 90.

Other features

Panel Lock

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

- П Press \square and \blacktriangle / ∇ to highlight **Options** icon.
- 2 Press > and > / To select Panel Lock and press OK.



Press \blacktriangle / \bigtriangledown to select **On**

Recording Setup		
My Contents Setup		
MHL Setup		
HDMI CEC Control Setup		-
Hybrid TV Standard	Disabled	
Teletext	Auto	
Panel Lock	Off 🕨	On
AV Connection		Off
Power Management		1
Blue Screen	Off	
HDMI Information Display	On	

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.

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.

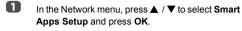


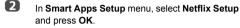
In the **Options** menu, press **A** / **V** to select **Blue** Screen

2 Press \blacktriangleright and \blacktriangle / \bigtriangledown to select **On** or **Off**.

Netflix[®]

To confirm the Netflix ESN (Electronic Serial Number)





B Press ▲ / ▼ to select ESN and press OK. Netflix ESN screen will appear.

To deactivate your TV

- ก In the Network menu, press ▲ / ▼ to select Smart Apps Setup and press OK.
- 2 In Smart Apps Setup menu, select Netflix Setup and press OK.
- R Press ▲ / ▼ to select Deactivation and press OK.
- 4 Press ◀/ ► to select Yes and press OK.

NOTE:

- This service may not be available or the service contents. may change depending on the service side.
- · This menu is displayed even if this service is not available in the area.

The timers

My TV Timer List – 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.

ก

Press GUIDE and then press the BLUE button on the remote control

- 2 Press ▼ if necessary to select an open timer position, then press OK. The Edit Timer menu will now appear on screen.
- 3 Press \blacktriangle / \bigtriangledown to go through the list adding the details of the programme by using the number buttons and $\triangleleft / \triangleright$ to make selections.

Edit Timer	3:51 Tue, 22 Apr
Timer Type	Reminder
Channel	1 ABC HDTV
Date	Tue, 22 Apr 2008
Start Time	03:50
End Time	04:50
Repeat	Once

4 When all of the details have been entered. highlight Set Timer and press OK to save the timer.

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.

- ก Press \mathbf{Y} and \mathbf{A} / \mathbf{V} to highlight Timers icon.
- 2 Press ▶ and ▲ / ▼ to select On Timer and press OK.
- B Press ▲ / ▼ to select Enable On Timer and press ◀ / ► to select On.

Enable On Timer	🔹 On 🕨
Enable DTV Clock	Off
Power On Time	00:00
Repeat	Sat-Sun
Input	ATV
Channel	11 BBC11 ONE TV
Volume	30
Time Until Power On	12:00

4

69

Press ▼ to select Enable DTV Clock, and then press ◀/ ► to select On or Off.

6

Press \blacktriangle / \bigtriangledown to go through the list adding the details of the On Timer by using the number buttons and \triangleleft / \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 Ant, 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).

Press \blacktriangle / \blacksquare to highlight **Done** and press **OK**.

To cancel the On Timer:

- In the On Timer menu, select Enable On Timer.
- Press ◀ / ► to select Off.
 - Press \blacktriangle / \blacksquare to highlight **Done** and press **OK**.

Sleep Timer

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



6

3

Press SLEEP and go to step3, or press **Э**−**C** and ▲ / ▼ to highlight **Timers** icon.

Press ► and ▲ / ▼ to highlight Sleep Timer and press OK.

Press SLEEP to increase in step of 10 minutes, or 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)

4 5

Press EXIT to finish.

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 your selection Time, if you do not operate the TV either from the remote control or the TV control panel.

- Press \rightarrow and \checkmark / \checkmark to highlight Options icon.
- Press ➤ and ▲ / ▼ to select Power Management and press OK.
- B Press ▲ / ▼ to select Automatic Power Down.
- Press ▶ and ▲ / ▼ to select 4 Hours, 6 Hours, 8 Hours or Off and press OK.

NOTE:

- This feature is set to On when Location is set to Home.
- Before 15 min, a message will be displayed on TV. Before 10 min, TV will power off.
- When the following features are set, the feature that is set for the nearest time will function.
 - Automatic Power Down
 - Sleep Timer
 - 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 analogue channel (no signal detection)
- Only Audio L/R is connected to external input to listen to music through the TV speakers.

In the Power Management menu, press ▲ / ▼ to select No Signal Power Down.

Press ➤ and ▲ / ▼ to select the item you want to change and press ➤ and ▲ / ▼ to select On or Off.

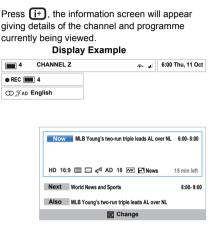
NOTE:

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

Digital on-screen information

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

Information



Press ▲ / ▼ to select the "Now", "Next" or "Also" information guide.

The selected information content will appear.

To record the next scheduled programme, select Next and press OK. The Edit Timer screen will appear.

Edit Timer	10:50 Tue, 26 Apr
Working Lunch 2 BBC TWO 12:30 - 13:00 Tue, 26 Apr	
Timer Type	Recording
Set Timer	Delete Timer
OK	Enter

4

2

П

The details of the programme will already have been added to the timer. Highlight **Set Timer** and press **OK** to save.

To indicate that a Recording Timer has been set, a clock icon will be displayed in the **Next** fields of the information screen. A check mark will appear if the timer is a Reminder Timer.

To display More Information:

- Press QUICK to open the Quick Menu.
- Press ▼ 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
	AD	Audio Description
Audio/Subtitle info	Ń	For Hard of Hearing
Recording info	●REC	Recording + Service info
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
		Teletext
		Subtitle (Single, Multi)
		Audio track (Mono, Multi)
	0, 4 – 18	Parental rating
	\sim	Encrypted
Timer info		Recording
	\checkmark	Reminder
	Q	Auto Recording

n

Using EPG (Electronic Programme Guide)

Using Broadcast 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.

⊷Tue 22 ы TV	44 6:00	6:30	l 7:00	5:48 7:30	Tue, 22 Apr 8:00 ₩
1 ABC HDTV	World Business Today		Big Brother's Little Brother		World Business
2 ABC1	Seven Wonders of Ancient Rome		45 Battlefield Detectives		Hope & Faith
3 ABC2	ITV Morning News		ITV Morning News		L
4 ABC1		Balairiory	ITV Morning	Seven Wonders	of Ancient Rome
5 ABC3	Seven Wonders of Ancient Rome		Hope & Faith		Hope & Faith
6 BBC ONE	BBC News 24		BBC News 24		BBC News 24
7 BBC TWO	Kickstart Natural Born Dealers		Zoo Story		Animal Cops
8 BBC THREE	World News Today			Go, Diego, Gol	World News Today
9 BBC NEWS 24	Big Brother Live	Go, Diego, Go!	vets in Hong Kong	Hope & Faith	vets in Hong Kong
10 BBCi	vets in Hong Kong		45 vets in Hong Kong epsode 12		
11 CBBC Channel	World's Toughest		World's Toughest		World's Toughest
12 TF1 HD	Zoo Story Fimbles		Zoo Story		Zoo Story
13 FRANCE 2 HD	Good Morning Sp	orts Fan	Animal Cops Houston		
it More Info	🛛 🖾 Page 📕	Now Vie	sw Genre	Timers	UCK Features

You can switch the time scale to 1.5 or 3 hours by pressing the **GREEN** button.

- Press ◀/ ► for information on other programmes scheduled for the channel selected. To highlight the first programme in the genre grid, press the **RED** button.
- S For details of other programmes currently available, press ▲ / ▼ to scroll up and down the channel list. As channels are selected, details of the programme currently being broadcast will appear. Press ◄ / ► to view information for future programmes.
- For information on a highlighted programme, press (i+).
- To set the timer for that programme, press the BLUE button to bring up the My TV Timer List menu.
- 6 Press **≈ ≈ ≈ ∞** to view another page.

Updating EPG:



- In the Guide screen press QUICK.
- Press ▲ / ▼ to select EPG Update.

Genre selection/searching

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

- In the Guide screen, press QUICK.
- Press ▲ / ▼ to highlight Genre Colour in the Quick Menu and press OK.

Genre Colour Setup
Movie
🧾 😐 🗶
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 Quick Menu.

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

- Press **→** and **▲** / **▼** to highlight Installation icon.
- Press ▶ and ▲ / ▼ to select DTV Settings and press OK.
- Press \blacktriangle / \lor to select **Parental PIN Setup** and press **OK**.

Channels	
Subtitle and Audio	
Parental PIN Setup	
Parental Control	
Local Time Setting	
DVB Character Set	
Standby Channel Update	Off
Dynamic Scan	Off
Favourite Region	
Data Transfer	
Common Interface	
Stored CICAM PIN	

4

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

Parental PIN Setup	
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.

- In the DTV Settings menu, press ▲ / ▼ to select Parental Control and press OK.
- Press ▲ / ▼ to select Parental Setup and press OK.

Parental Setup: Select when you want to set viewing restrictions on broadcast programmes.

B Press \blacktriangle / \bigtriangledown to select an option.

Parental Control		
Parental Setup	None 🕨 N	one
	4	
	5	
	6	
	7	
	8	
	9	
	1	0
	1	1
	1	2
	1	3
	1	4

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

Digital settings – Channel Options

Selecting favourite channels

From the Quick Menu / Channel Options menu, it is possible to create a list of the digital channels that are watched most. Press LIST / \P to select the Favourite Channel list.

- Select the channel you want to add to your favourite list.
- Press QUICK to open the Quick Menu.
- Press ▼ to select Channel Options and press OK.
- Press ► to highlight the favourite (☆) box.
- **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.
- When all favourites have been selected, press EXIT.

Favourite Channel List

ก

B

Press LIST to display Channel List.

Each time you press ◀/ ▶, All Channels, TV Channels, Radio Channels, Text Channels, Free To Air, Pay Channels, HD Channels or Favourites is selected in order.

Press ◀/ ► to select Favourites. The number of favourites available depends on how many lists have been created.

		Favourite	
11 NT1 31 PARIS PREMIERE 34 AB1	6	M6	
31 PARIS PREMIERE 34 AB1	9	W9	
a 34 AB1	11	NT1	
	31	PARIS PREMIERE	
51 ITV1	34	AB1	
	51	ITV1	

Press \blacktriangle / \bigtriangledown to highlight a channel and press **OK** to watch.

Skip channels

This feature allows you to set channels that will be skipped when P∨ or P∧ are used to tune.

- Select the channel you want to skip in your channel list.
- In the Quick Menu, press ▼ to select Channel Options and press OK.
- B Press ► repeatedly to highlight the skip (- box.
- 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 $P \lor$ or $P \land$ but still be accessed by direct number entry (when tuned a $\land \lor$ 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.

- Select the channel you want to lock in your channel list.
- In the Quick Menu, press ▼ to select Channel Options and press OK.
- B Press \blacktriangleright repeatedly to highlight the lock (\bigcirc) box.
- Press OK and PIN entry will be required to set the locked channels. Enter PIN Code and a tick will appear in the box.

NOTE: A Parental PIN should be set in advance. If not, a warning message will display to reminder you to set a PIN first.

- **5** Repeat steps 1 through 4 for other channels.
- 6 Press EXIT.
- From this point on, when any of the **Locked Channel** list is selected, the PIN must be entered before they can be accessed.

Digital settings – other settings

Subtitles

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



B

In the DTV Settings menu, press \blacktriangle / \bigtriangledown to select Subtitle and Audio and press OK.

Press ▲ / ▼ to select Subtitle Display and press
 ▶ and ▲ / ▼ to select On or Off.

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

Press ▲ / ▼ to select **Primary Subtitle Language** or **Secondary Subtitle Language** and press ▶ and ▲ / ▼ 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.

DVB Character Set

- In the DTV Settings menu, press \blacktriangle / \blacktriangledown to select DVB Character Set and press OK.
- Press ► and ▲ / ▼ to select Standard, Latin alphabet 2, West or Latin alphabet 9.

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 ▲ / ▼ to select Audio Type and press ▶ and ▲ / ▼ to select Normal, For Hard of Hearing or Audio Description and press OK.
- Press ▲ / ▼ to select Primary Audio Language or Secondary Audio Language and press ▶ and ▲ / ▼ to select an option.

If more than one soundtrack is available, use the $\operatorname{OI}/\mathbb{I}$ 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 → C and ▲ / ▼ to highlight Installation icon.
- B Press ▶ and ▲ / ▼ to select DTV Settings and press OK.
- Press \blacktriangle / \bigtriangledown 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 execute automatically if it is 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.

Stored CICAM PIN

Stored the CICAM PIN is used for recording.

- Press **→** and **▲** / **▼** to highlight Installation icon.
- Press ▶ and ▲ / ▼ to select DTV Settings and press OK.
- Press \blacktriangle / \bigtriangledown to select Stored CICAM PIN and press OK.
- Input PIN code on the Stored CICAM PIN dialog window and press Done.

NOTE: Note relating to cards for which the CAM PIN can be changed through the Common Interface: If you change the PIN through the Common Interface after setting the stored PIN, it invalidates the stored PIN, which you must change in a separate operation.

English

Software Upgrade and Licences

Searching for New Software

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

- In the Get Help menu, press ▲ / ▼ to select Software Upgrade and press OK.
- Press ▲ / ▼ to select Over-the-air Upgrade and press OK.

Press ▲ / ▼ to select Auto Upgrade and press ▶ to select On, then press ▲ / ▼ to select Search for new Software and press OK.

SEARC	H FOR NEW SOFTWARE
	ng for a new software upgrade for this TV.
4 %	CH 855
	CH 855

If an upgrade is found, a message will be displayed to decide downloading the new software or not. If not, a screen will appear stating that an upgrade is unavailable.



After searching software, message will be displayed and press ◀ / ► to select Yes or No. If you select No, then TV will be power off once the Software update has completed.

NOTE: When **Auto Upgrade** is set to **Off**, this feature is not available.

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.

1

In the **Get Help** menu, press \blacktriangle / \triangledown to select **Software Upgrade** and press **OK**.

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

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

B

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 Get Help menu, press ▲ / ▼ 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	Inform	natio	า
curi additioi	rently nal dia	installed. Wh	en in DT\ mation su	/ mode ich as s	ignal strength,
		Get Help me m Information	7 I	6▲/▼	to select
2	Press	OK to displa	y the Sys	tem In	formation.
	System	n Information			
		TOSH 2014 - Oct 27 Software Versio MBOOT Versio Shipot Country	048 2014 on:xxxxxxxx on:xxxxxxxx ut:B		
	Ch67	AVERAGE		POOR	•
		WEAK	STRONG	POOR	1
	Ch37	AVERAGE			
		WEAK	STRONG		
	Ch33	AVERAGE	STRONG		
		AVERAGE			
	Ch48	WEAK	STRONG		
4	partic multip Press		a, press ▲ een show	√ ▼ to	select that ailed technical

Reset TV

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

In the **Installation** menu, press ▲ / ▼ to select **Reset TV**.

П

Press OK to select. A screen will appear warning that all settings will be lost. Press OK to continue.

> 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 16.)

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 \mathbf{P} and \mathbf{A} / $\mathbf{\nabla}$ to highlight **Picture** icon.
- Press ► and ▲ / ▼ to select Display Settings and press OK.
 - Press ▲ / ▼ to select PC Setting and press OK.

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



B

Press \blacktriangle / \bigtriangledown to select an option and press \triangleleft / \triangleright to adjust the settings.

Horizontal Position	0
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.

- In the Display Settings menu, press ▲ / ▼ to select PC Settings and press OK.
- Press \blacktriangle / \bigtriangledown to select Clock Phase.
- B Press ◀/ ► to adjust until the picture clears and press OK.

Sampling Clock

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



1

In the **Display Settings** menu, press ▲ / ▼ to select **PC Settings** and press **OK**.



Press \blacktriangle / \blacksquare to select **Sampling Clock**.



Press \blacktriangleleft / \blacktriangleright to adjust until the picture clears.

Reset

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



In the **Display Settings** menu, press ▲ / ▼ to select **PC Settings** and press **OK**.



Press ▲ / ▼ 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 8 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 D 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.

Press ⊕ on the remote control

TV ← ⊕1 ⊕ ⊕2 ⇒ HDMI 1 ≫ HDMI 2 ≫ HDMI 3 → HDMI 4	Inputs	
← ⊕ 1 ← ⊕ 2	T1/	
 ➡ HDMI 1 ➡ HDMI 2 ➡ HDMI 3 ➡ HDMI 4 		
- HDMI 2 - HDMI 3 - HDMI 4		
PC	💷 - HDMI 4	
	PC	

Inputs	
DTV Ant	
DTV Sat	
₽ - € 1	_
<u></u> ⊕2	
:≡= HDMI 1	
≔= HDMI 2	
≔ HDMI 3	_
📾- HDMI 4	
PC	
ATV	_

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.

Labelling 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 \mathbf{Y} and $\mathbf{A} / \mathbf{\nabla}$ to highlight **Options** icon.

1

Press \blacktriangle / \blacktriangledown to select **AV Connection** and press **OK**.

Recording Setup	
My Contents Setup	
MHL Setup	
HDMI CEC Control Setup	
Hybrid TV Standard	Disabled
Teletext	Auto
Panel Lock	Off
AV Connection	
Power Management	
Blue Screen	Off
HDMI Information Display	On

B

Press \blacktriangle / \blacktriangledown to highlight **Input Labelling** and press **OK**.

< AV Connection	
Input Labelling	▶
Colour System	

Press ▲ / ▼ to select the item you want to label, and press OK, then press ▲ / ▼ to select --, Amplifier, Cable, DVD, Game, PC, Recorder Satellite, VCR or Blu-ray.

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



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 Sound menu, press ▲ / ▼ to select Digital Audio Output and press OK.

Sound Mode	Standard
Advanced Sound Settings	
Sound Separation Effect	1
TruVolume	Off
Dynamic Range Control	On
Balance	0
Dual	Dual 1
Audio Level Offset	
TV Speakers	On
Headphone Level	
Audio Description	
Digital Audio Output	

2 Pre

Press \blacktriangle / \bigtriangledown to select an option.

Audio Format

Press OK and ▲ / ▼ 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

 $DTS \rightarrow DTS$

Audio Delay

Press OK and ▲ / ▼ 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 **OK** and $\triangleleft / \triangleright$ to adjust the audio signal timing (0 – 250 ms) to meet the video signal timing.

NOTE:

- This feature is greyed 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)

Using HDMI CEC Control

This is a new feature that uses CEC technology and allows you to control Toshiba HDMI CEC Control compatible devices from the television remote control via HDMI connection (page 10).

When the Enable HDMI CEC Control item in the HDMI CEC Control Setup menu is set to On, individual functions also set to On will be activated.

Enable HDMI CEC Control

- Press → and ▲ / ▼ to highlight Options icon.
- Press ► and ▲ / ▼ to select HDMI CEC Control Setup and press OK.
- B Press ▲ / ▼ to select Enable HDMI CEC Control and press OK.

Press ▲ / ▼ and OK to select On.

HDMI CEC Control Setup		
Enable HDMI CEC Control	On ⊧	On
TV Auto Power	On	Off
Auto Standby	On	
Amplifier Control	On	
Initial Speaker Setting	TV Speakers	

NOTE: If you set **Enable HDMI CEC Control** to **Off**, all other items will be greyed out.

TV Auto Power

The TV Auto Power setting allows the television to be automatically switched on if an HDMI CEC Control device is turned on.



In the **HDMI CEC Control Setup** menu, press ▼ to highlight **TV Auto Power**.

Press \blacktriangleright and \blacktriangle / \bigtriangledown to select **On** or **Off**.

2 VCR/DVR

3 CBI /SAT

 These functions depend on the device connected. If you select the HDMI CEC Control input source from the popup window, some HDMI CEC Control devices

· If the HDMI cable from connected equipment is changed, Enable in the HDMI CEC Control Setup menu

• If you change the HDMI lead to a connected device or change an HDMI device setting, reset the Enable HDMI CEC Control item on the HDMI CEC Control Setup

may automatically turn on.

may need to be reset to On.

menu from Off to On

GAME/TV 4

AUX 5

HDMI CEC Control input source Auto Standby selection When Auto Standby is enabled, the television, when switched off. will automatically switch off (Standby) all If an HDMI CEC Control device with HDMI switching connected HDMI CEC Control equipment. capability (e.g. AV amplifier) is connected to the HDMI input, you can select another HDMI CEC Control device ก In the HDMI CEC Control Setup menu, press that is connected to the master HDMI device on the input to highlight Auto Standby. source list П Press 🕣 and a list will appear on screen showing 2 Press ▶ and ▲ / ▼ to select On or Off. available input sources. Amplifier Control 2 Press ▼ to select the input source that the HDMI CEC Control devices are connected. When Amplifier Control is set to On the connected amplifier can be controlled by TV remote. B Press and a second selection screen will appear П In the HDMI CEC Control Setup menu, press showing all connected HDMI CEC Control to select Amplifier Control. equipment. 2 Inputs Press ▶ and ▲ / ▼ to select On or Off. τν **-** - 1 Initial Speaker Setting 📼 HDMI 1 IN HDMI 2 The Initial Speaker Setting allows to select TV speakers or HDM<u>I 3</u> **∢1** DVD Amplifier speakers. 🚎 HDMI 4 E PC n In the HDMI CEC Control Setup menu, press to select Initial Speaker Setting. 2 4 Press \blacktriangle / \bigtriangledown to select the desired input source, Press ▶ and ▲ / ▼ to select TV Speakers or Amplifier. and then press OK. NOTE:

HDMI CEC Control one touch play

When connected equipment is switched on, HDMI CEC Control will automatically detect the television through the input selection. If the television is in Standby, it will be switched on automatically.

These functions can be enabled or disabled from the **HDMI CEC Control Setup** (see page 80).

NOTE:

- Even if the equipment is showing a menu, the television may automatically show the input source.
- This feature depends on the connected equipment and television state.
- Even if the HDMI cable is connected during PVR playback, the television does not automatically display the HDMI input signal.

HDMI CEC Control system standby

If the television is turned off (Standby), the television will send a message to turn off (Standby) all of the HDMI CEC Control devices connected to the television.

These functions can be enabled or disabled from the **HDMI CEC Control Setup** (see page 80).

NOTE: This feature depends on the connected equipment and television state.

Using MHL TV function

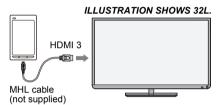
You can use the following functions by connecting between the TV HDMI 3 port and a USB port of mobile phones etc. with an MHL cable.

- · Charge with mobile phone from TV
- Two-way remote operation between TV and mobile phone
- Video/Audio output from mobile phone

NOTE: These functions may not be available depending on the connected device.

Connecting an MHL-compatible device

Connect the device to the HDMI 3 port on the TV with an MHL cable (not supplied).



 When you connect an MHL-compatible device to the HDMI 3 port on the TV with the MHL cable, charging starts automatically.

NOTE: Do not connect an MHL-compatible device to any port other than the HDMI 3 port.

Operating an MHL-compatible device

When an MHL-compatible device is connected to the HDMI 3 port on the TV, input automatically switches to the HDMI 3 port.

Operate the device using the remote control for the TV. To display photos, select the photos using $\mathbf{AV} \mathbf{A} \mathbf{b}$ and press **OK**. To play a video, press **b** (play).

Depending on the connected MHL-compatible device, it may be possible to perform operations from the device.

MHL Setup

Select whether or not input automatically switches to the HDMI 3 port when an MHL-compatible device is connected.

- In the Options menu, press ▲ / ▼ to select MHL Setup.
- Press ► to select TV Auto Input Switch and press OK.
- B Press ▲ / ▼ to select On or Off and press OK.

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 **Options** menu.

Press \rightarrow and \blacktriangle / \checkmark to highlight **Options** icon.

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

Options		
Recording Setup		
My Contents Setup		
MHL Setup		-
HDMI CEC Control Setup		-
Hybrid TV Standard	Disabled	
Teletext	Auto	Auto
anel Lock	Off	List
V Connection		
Power Management		
Blue Screen	Off	
IDMI Information Display	On	

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^{Λ} 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 ◀/►.

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 \mathbf{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 $[\Xi i]$ to access the index/initial page. The one displayed is dependent 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 $\boxed{\Xi}$ button.

To hold a wanted page:

E To enlarge the text display size:

Press (=f) once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to normal size.

⊘/ ≥ To temporarily erase the text screen:

Press $\textcircled{D}/(\blacksquare)$ 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.

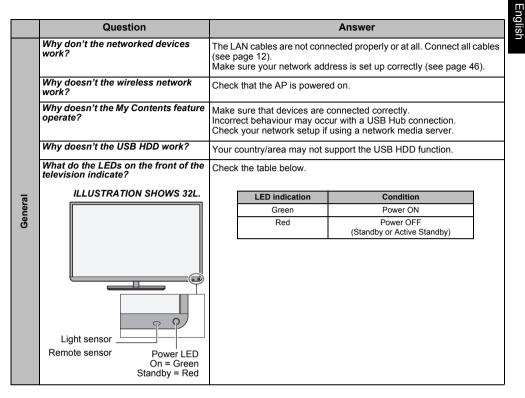
Questions and Answers

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

	Question	Answer				
	Why is there no sound or picture?	Check the television is not in Standby mode. Check the mains plug and all mains connections.				
Sound	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.				
	Why is the soundtrack in English when a different audio language has been selected?	The programme is currently being broadcast with an English soundtrack only.				
	Why is there incorrect or no sound when in DTV mode?	Press $\operatorname{OI}/\mathbb{I}$ to ensure the hard of hearing option has not been selected.				
	There is a picture, but why is there little or no colour?	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 Options menu. < AV Connection Input Labelling Colour System PAL SECAM NTSC 4.43				
ą		With ◀ / ► choose between Auto, PAL, SECAM, NTSC 4.43 or NTSC 3.58.				
Picture	What else can cause a poor picture?	 Interference or a weak signal. Try a different television station. Manual Fine Tuning may help. Select the ATV Manual Tuning menu. Highlight the station and press OK. Then press ► to select Manual Fine Tuning. 				
		Using \blacktriangle / \checkmark adjust to get the best picture and sound. Press OK and then press EXIT .				
		ATV Manual Tuning Manual Fine Tuning 1 I A +++ C 2 Q 0				
	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 8, and then select the correct input by pressing •D .				
	Why are there vertical stripes on the screen when in PC mode?	The Sampling Clock may need adjustment. Select PC Settings from the Display Settings menu, highlight Sampling Clock and adjust until the lines clear.				

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	or l in l

	Question	Answer
	Why are there horizontal stripes and/ or blurred images on the screen when in PC mode?	The Clock Phase may need adjustment. Select PC Settings from the Display Settings menu, highlight Clock Phase and adjust until the picture clears.
Picture	Why are the colours wrong when an NTSC source is played?	Connect the source via a SCART lead and play. Select Colour System from the Options menu.
₽.		Set the Colour to Auto and exit.
		2 Go to the Picture menu and adjust the tint.
	Why don't the controls of the television work?	Check that Panel Lock is not On .
	Why doesn't the remote control work?	Check that batteries aren't exhausted or inserted incorrectly.
	Why is the digital channel locked?	The channel has been locked in Channel Options (see 'Digital settings – Channel Options' section).
	Why are some of the digital subscription channels unavailable?	Your subscription needs upgrading. Contact your service provider.
	What is DVB-T?	Digital Video Broadcast via an aerial/antenna.
	What is DVB-C?	Digital Video Broadcast via a cable connection.
	How are DTV radio channels selected?	Select from All Channel List (LIST button).
	What can be done if the PIN number has been forgotten?	Use the Master PIN code of 1276, then change to a number of your choice. Select Parental PIN Setup from the DTV Settings menu to enter PIN. Ensure that no-one else can use the Master PIN by removing the Owner's Manual.
	Why when digital subtitles have been selected are they not showing on screen?	Subtitles are not currently being transmitted by the broadcaster.
General	Why are there problems with analogue text?	Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check the aerial. Go to the <i>main index</i> page of the text service and look for the User Guide. This will explain the basic operation of text in some detail. If further information is needed on how to use text see the text section.
	Why is a page number visible at the top of the screen but no text?	Text has been selected but Teletext information is currently unavailable on the current source.
	Why don't the devices connected via HDMI operate properly?	Make sure to use cables with the HDMI logo Harris (see page 9).
	······································	Some early HDMI equipment may not work properly with the latest HDMI TV products, due to new standard adoption.
	Why don't the devices connected via MHL operate properly?	Turn off your TV and unplug the power cord, and then plug and turn on again. Turn the MHL Source Power Off and On again. Try to reconnect a MHL cable.
	Why don't the HDMI CEC Control devices work?	When the connected HDMI CEC Control device does not work correctly after you have changed the settings of the device, turn off your television and unplug the power cord, and then plug and turn on again. Unplug the HDMI cable of the HDMI CEC Control device and lead again.
	Why is the HDMI CEC logo still showing when the equipment has been disconnected?	If the HDMI CEC Control device is disconnected, the logo will disappear after approximately one minute.



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 TV function in the Installation menu.

English

Information

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

Signal information for Mini D-sub 15 pin connector

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

* 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	59.940 Hz	31.469 kHz	25.175 MHz	•
SVGA	800 × 600	60.317 Hz	37.879 kHz	40.000 MHz	•
XGA	1024 × 768	60.004 Hz	48.363 kHz	65.000 MHz	•
WXGA	1280 × 768	59.870 Hz	47.776 kHz	79.500 MHz	•
	1280 × 800	59.810 Hz	49.702 kHz	83.500 MHz	
	1360 × 768	60.015 Hz	47.712 kHz	85.500 MHz	•
WXGA+	1440 × 900	59.887 Hz	55.935 kHz	106.500 MHz	
SXGA	1280 × 1024	60.020 Hz	63.981 kHz	108.000 MHz	•
1080p	1920 × 1080p	60.000 Hz	67.500 kHz	148.500 MHz	

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	59.940/60.000 Hz	15.734/15.750 kHz	27.000/27.027 MHz	
576i	720 × 576i	50.000 Hz	15.625 kHz	27.000 MHz	
480p	720 × 480p	59.940/60.000 Hz	31.469/31.500 kHz	27.000/27.027 MHz	
576p	720 × 576p	50.000 Hz	31.250 kHz	27.000 MHz	
1080i	1920 × 1080i	59.940/60.000 Hz	33.716/33.750 kHz	74.176/74.250 MHz	
1080i	1920 × 1080i	50.000 Hz	28.125 kHz	74.250 MHz	
720p	1280 × 720p	59.940/60.000 Hz	44.955/45.000 kHz	74.176/74.250 MHz	
720p	1280 × 720p	50.000 Hz	37.500 kHz	74.250 MHz	
1080p	1920 × 1080p	59.940/60.000 Hz	67.433/67.500 kHz	148.352/148.500 MHz	
1080p	1920 × 1080p	50.000 Hz	56.250 kHz	148.500 MHz	
1080p	1920 × 1080p	24.000 Hz	27.000 kHz	74.250 MHz	
1080p	1920 × 1080p	29.970/30.000 Hz	33.720/33.750 kHz	74.176/74.250 MHz	
VGA	640 × 480	59.940/60.000 Hz	31.469/31.500 kHz	25.175/25.200 MHz	•
SVGA	800 × 600	60.317 Hz	37.879 kHz	40.000 MHz	•
XGA	1024 × 768	60.004 Hz	48.363 kHz	65.000 MHz	•
WXGA	1280 × 768	59.870 Hz	47.776 kHz	79.500 MHz	•
	1360 × 768	60.015 Hz	47.712 kHz	85.500 MHz	•
SXGA	1280 × 1024	60.020 Hz	63.981 kHz	108.000 MHz	•

My Contents Supported Format

My Contents	Media Format	File Extension	Video codec	Audio codec	USB	Network	Note	
Photo	JPEG	.jpg .jpeg	JPEG	_	yes	yes	USB Data compatibility: JPEG Exif ver 2.2 Maximum viewable resolution: •JPEG 15360 × 8640 (Base-	
	MPO	.mpo	MPO	_	yes	no	line) 1024 × 768 (Progressive) •BMP 9600 × 6400 Maximum number of files: 1000 / folder	
	BMP	.bmp	BMP	_	yes	no	Network Data compatibility: JPEG Exif ver 2.2 Maximum viewable resolution: 4096 × 4096 Maximum number of files: 1000/folder	
							NOTE: Some files may not be played.	
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	
	MPEG-2	.mpg	MPEG-1 Video	MPEG-1/2 Layer3	yes	no	• Other:1920 × 1080	
	PS	.mpeg	MPEG-2 Video	MPEG-1/2 Layer2 Dolby Digital (AC-3) L-PCM	yes	yes	Maximum video size: Unlimited Network	
	MPEG-2 TS	.ts .trp	MPEG-2 Video	MPEG-1/2 Layer2	yes	yes	Maximum video resolution:	
	-	.tp	H.264(MPEG-4 AVC) VC-1(WMV9)	MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM MPEG-4 LC-AAC MPEG-4 HE-AAC	yes	no	1920 × 1080 Maximum number of file:1000 / folder Maximum video size: Unlimited	
	MPEG-2 VOB	.vob	MPEG-1 Video MPEG-2 Video	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM	yes	no	NOTE: Some files may not be played.	

My Contents	Media Format	File Extension	Video codec	Audio codec	USB	Network	Note	
Movie	MOV	.mov	H.264 (MPEG-4 AVC) MPEG-4 part2	MPEG-1/2 Layer3 MPEG-2/4 LC-AAC MPEG-4 HE-AAC	yes	no		
	MP4	.mp4 .m4v	H.264 (MPEG-4 AVC) MPEG-4 part12,14	MPEG-1/2 Layer3 MPEG-4 HE-AAC DTS	yes	no		
			H.264 (MPEG-4 AVC)	MPEG-2/4 LC-AAC	yes	yes		
		.asf	VC-1 (WMV9)	WMA9 Std	yes	yes		
		.wmv		WMA7/8 WMA9 Pro	yes	no		
	DivX	.divx .div	DivX 3,4,5,6	MPEG-1/2 Layer2 MPEG-1/2 Layer3	yes	no		
	Xvid	.xvid	Xvid	Dolby Digital (AC-3) PCM 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 DTS	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		
	3GPP	.3gp	MPEG-4 part2 H.264 (MPEG-4 AVC)	MPEG-2/4 LC-AAC	yes	no		
	Motion JPEG	.avi .mp4 .mkv	JPEG	L-PCM ADPCM	yes	no		
Music	MP3	.mp3	-	MPEG-1/2 Layer-3	yes	yes	USB	
	MP4	.m4a .mp4	-	MPEG-2/4 LC-AAC	yes	yes	Maximum number of files: 1000 / folder Maximum music size:	
	WMA	.wma	-	WMA9 Std	yes	yes	Unlimited	
				WMA7/8 Std WMA9 Pro	yes	no	Network Sampling rate: 32,	
	WAV	.wav	_	LPCM ADPCM MPEG-1/2 Layer-3 WMA7/8/9/ Std WMA9 Pro DTS	yes	no	44.1 and 48 KHz Bit rate: 32 to 320 kbps Maximum number of files: 1000 / folder Maximum music size:	
	LPCM		-		no	yes	Unlimited NOTE: Some files may not be played.	

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7,295,673; 7,460,668; 7,515,710; 7,519,274

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CE

This product is carrying the CE-Mark in accordance with the related European Directives.

Responsible for CE-Marking is TOSHIBA, 23 Davy Road, Plymouth, PL6 8BY, UK

This product is labeled with the CE Mark in accordance with the related European Directives, notably Low Voltage Directive 2006/95/EC, Electromagnetic Compatibility Directive 2004/108/EC and RoHS Directive 2011/65/EU.

Furthermore the product complies with the Ecodesign Directive 2005/32/EC (EuP) and 2009/125/EC (ErP) and its related implementing measures.

If this product has an integrated Wireless LAN feature, the Radio Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC is also applicable.

Cleaning the screen and cabinet...

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

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 visit our website <u>www.toshiba.eu/recycling</u> or 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 European Battery Directive, 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 visit our website <u>www.toshiba.eu/recycling</u> or contact your local city office or the shop where you purchased the product.

REACH information

The European Union (EU) chemical regulation, REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), entered into force on 1 June 2007, with phased deadlines to 2018.

Toshiba will meet all REACH requirements and is committed to provide our customers with information about the presence in our articles of substances included on the candidate list according to REACH regulation.

Please consult the following website <u>www.toshiba.eu/reach</u> for information about the presence in our articles of substances included on the candidate list according to REACH in a concentration above 0.1 % weight by weight.





Specifications and accessories

Receiving systems

DVB-T Broado channels	ast systems/	Broadcast systems/channels		
UK	UHF 21-68	PAL-I	UHF UK21-UK69	
France	VHF 05-10 (VHF 01-05) UHF 21-69	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,I UHF 21-69		F,G,H,H1,H2)		
Spain	UHF 21-69			
Netherlands	VHF 05-12 UHF 21-69			
Greece	VHF 05-12 UHF 21-69			

DVB-C Broadcast systems DVB-T2 Broadcast systems DVB-S/DVB-S2 Broadcast systems (L646* series only)

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT 1	Input/Output	21-pin SCART	RGB, A/V input AV out, TV out	
EXT 2	Input	RCA jacks RCA jack	Y, P_B/C_B , P_R/C_R Video (Y is shared)	
		RCA jacks	Audio L + R (shared)	
HDMI 1/2/3/4	Input	HDMI [®] compliant HDMI 1 is compa HDMI 3 is compa		
PC	Input	Mini D-sub 15-pin Analogue		
Digital Audio (S/PDIF)	Output	Optical		
LAN port		RJ-45		
USB 1/USB 2	port	My Contents (Media Player) Interface version: USB 2.0 USB class: Mass Storage File system: FAT16 and FAT32		
Headphone s	ocket	3.5 mm stereo		
Stereo		A2, Nicam 2 carrier system		
Visible Screen (approx.)	Size	32L64 42L64 47L64	80 cm 106 cm 119 cm	
Screen resolut (H × V pixels)	lion	32L64 42L64 47L64	1920 × 1080 1920 × 1080 1920 × 1080	
Display		16:9		
Sound output (at 10 % disto	rtion)	Main: 32L64 42L64 47L64	7 W + 7 W 7 W + 7 W 10 W + 10 W	

	Power consumption	32L64	85.0 W
(8	(approx.)	42L64	93.0 W
		47L64	127.0 W
	Standby power consumption (approx.)		0.50 W
	Energy Efficiency Class	32L64	A+
		42L64	A+
		47L64	A+
	On-mode power consumption*	32L64	33.6 W
	(approx.)	42L64	45.0 W
		47L64	64.2 W
	Average annual energy	32L64	46.6 kWh/y
	consumption** (approx.)	42L64	62.4 kWh/y
		47L64	89.0 kWh/y
	Networked standby power	32L64	2.20 W
	consumption (approx.)	42L64	2.20 W
	,	47L64	2.20 W

* Tested in accordance with IEC 62087-BD in default settings.

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

Dimensions	32L64	48.9 cm (H) 73.4 cm (W) 18.0 cm (D)		
(approx.)	42L64	60.4 cm (H) 96.4 cm (W) 23.0 cm (D)		
	47L64	65.7 cm (H) 107.2 cm (W) 21.7 cm (D)		
	(Height dimension includes foot stand)			
Weight	32L64	6.5 kg		
(approx.)	42L64	10.0 kg		
	47L64	12.5 kg		
Operating	Temperat	ture 5 °C - 35 °C (41 °F - 94 °F)		
condition	Humidity 20 - 80 % (non-condensing)			
Wireless	 Standa 	rd: IEEE 802.11a/b/g/n		
connection	 Frequency Range: 5.15-5.35 GHz, 			
	5.47-5.725 GHz, 5.725-5.850 GHz,			
	2.400-2	2.4835 GHz		
Supplied	 Remote 	e control CT-90429		
accessories	2 batteries (AAA, IEC R03 1.5 V)			
	. Scrow	(for TV mounting) See page 5		

· Screw (for TV mounting) See page 5.

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TOSHIBA 23 Davy Road, Plymouth, PL6 8BY, UK