

# **USER MANUAL**

L73 \* \* Digital Series M83 \* \* 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 <a href="https://www.toshiba-om.net/firmware.php">www.toshiba-om.net/firmware.php</a>

\*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 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 to the floor/wall 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.

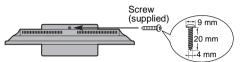
NEVER guess or take chances with electrical equipment of any kind - it is better to be safe than sorry.

# Installation and important information

#### Where to install

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

Place the TV on a stable, level surface that can support the weight of the TV. In order to prevent injury and maintain stability of this apparatus, secure the TV using the fixing in the stand.



Stand style is dependent on model

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.

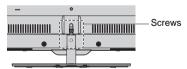
- Two people are required for installation.
- Install a wall-mount from another manufacturer.
- Unplug and remove any cables and/or other component connectors from the rear of the TV.
- 2 Carefully lay the front of the unit face down on a flat, cushioned surface such as a guilt or blanket.
- 3 Follow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

## Removing the Pedestal Stand:

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

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

2 Remove the 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.

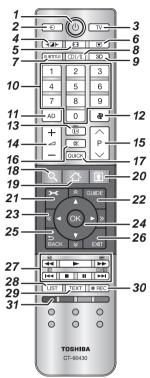
# When Using a USB Hard Drive (HDD)

- 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.

# The remote control

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



- 1 For On/Standby mode
- 2 To select external input sources
- 3 To select TV Mode
- 4 Selectable Picture
- 5 Widescreen viewing
- 6 Picture still
- 7 Digital Subtitles or Analogue TEXT Subtitle pages if available
- 8 MI/I Stereo/bilingual transmissions
- 9 To switch between 2D / 3D modes
- 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 - Accesses the Search Portal

- 19 Accesses the CLOUD HOME
- 20 Accesses to premium content available online
- 21 To access the on-screen Menu
- 22 To display the digital on-screen Programme Guide
- 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:

②/(≡X) Analogue time display

## When in Text mode:

- To hold a wanted page

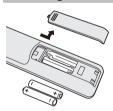
  To enlarge text display size
- ⑦/IN To erase Text pages temporarily when you are viewing in teletext mode.

#### **During Playback:**

- To PLAY
- To STOP
- II To PAUSE
- ★ To SKIP-BACK
- ◆ 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

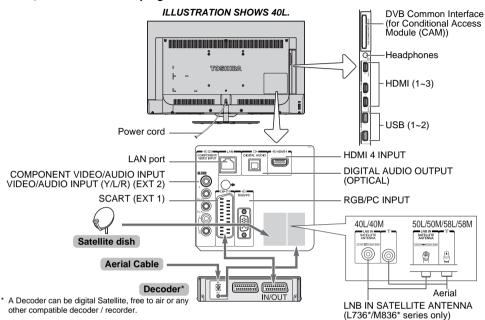
exhausted batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 99 of this manual.

**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.



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.

Satallita cable:

TO TO

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.

tho

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<sup>®</sup> (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, HDMI 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.

# Connecting an HDMI<sup>®</sup> 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 93.

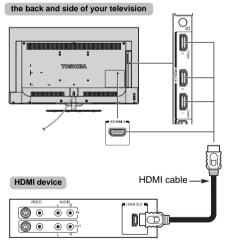
**NOTE:** Supported Audio format: Linear PCM, Dolby Digital (AC-3), sampling rate 32/44.1/48 kHz.

#### 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 (HDTT).

- 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 € to select HDMI 1, HDMI 2, HDMI 3 or HDMI 4 mode.

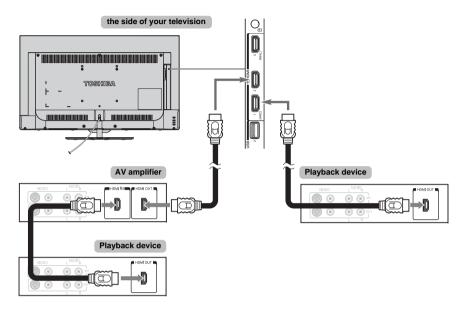
# HDMI's ARC (Audio Return Channel) feature

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.

# HDMI cable 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 85–86.



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):

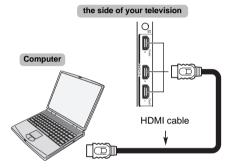
- After completing the above connections, set the HDMI CEC Control Setup menu as you desire (see page 85).
- The connected devices must also be set. For details, see the operation manual for each device.
- The HDMI CEC Control feature uses CEC technology as regulated by the HDMI standard.
- This feature 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

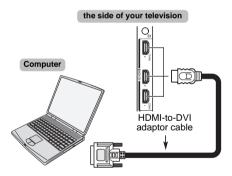
With either an HDMI or an RGB/PC connection, you can watch your computer's display on the television

# To connect a PC to the HDMI terminal

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.



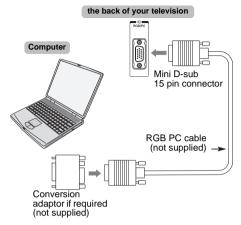
For acceptable PC and video signal formats, see page 93.

#### 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 92.

To display the optimum picture, use the PC setting feature (see page 82).

#### 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 Options menu.
- Some PC models may output unique signals that the television may be unable to detect (see page 92).
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

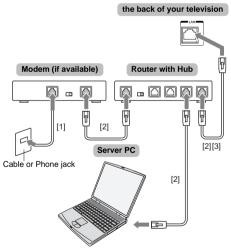
# Connecting a home network

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 47.
- 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<sup>®</sup> Wireless Display.

# To connect the TV to a home network - Wired



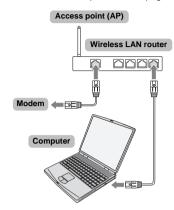
[1] Coaxial or telephone cable (depending on your modem type)
[2] Standard LAN cable

[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 44.



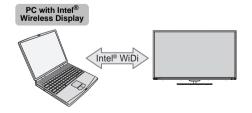
#### NOTE:

- 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.

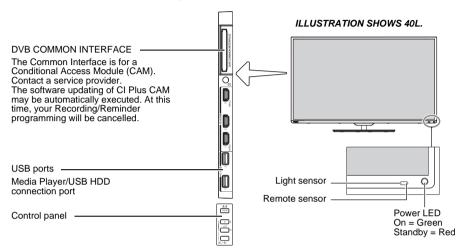
# To connect the TV to the PC with Intel® Wireless Display



# **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 O on the remote control; it may take a few moments. The GREEN LED will be lit.

To put the television into Standby, press  $\odot$  on the remote control. To view the television, press  $\odot$  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 ७/١.
- To alter the volume, press + or -.
  - + and buttons operate as volume up/down as default.
- Press ₱ / ⊕ repeatedly to switch the function of ∠ +/
   button as below.

#### Channel→Input→Volume

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

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 on the remote control to display the menu.

The menu appears as a list of eight 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.

Press ▲ / ▼ and OK or ▶
Picture Mode
Reset
Backlight
Contrast
Brightness
Colour
Tint
Sharpness
Advanced Picture Settings
Expert Picture Settings
Display Settings
Press ▲ / ▼ and OK or ▶
Balance
Bass
Treble
Treble Audyssey Premium Television
Audyssey Premium Television
Audyssey Premium Television  Dynamic Range Control
Audyssey Premium Television  Dynamic Range Control  Dual
Audyssey Premium Television  Dynamic Range Control  Dual  Audio Level Offset
Audyssey Premium Television  Dynamic Range Control  Dual  Audio Level Offset  TV Speakers

Press ▲ / ▼	Press ▲ / ▼ and OK or ▶
<b>=</b>	Recording Setup
Options	Media Player Setup
	MHL Setup
	HDMI CEC Control Setup
	Hybrid TV Standard
	Teletext
	Panel Lock
	AV Connection
	Power Management
	Blue Screen
	HDMI Information Display
Press ▲ / ▼	Press ▲ / ▼ and OK or ▶
г₫¬	Menu Language
Installation	Country
oid.idiio.i	Location
	Channel Tuning
	DTV Settings
	Quick Setup
	Reset TV
Press ▲ / ▼	Press ▲ / ▼ and OK or ▶
	Network Setup
Network	Network Device Setup
	Smart Apps Setup
Press ▲ / ▼	Press ▲ / ▼ and OK or ▶
Ŕ	3D Auto Start
3D	2D to 3D Depth
	3D PIN
	3D Safety Settings
	3D Important Info
Press ▲ / ▼	Press ▲ / ▼ and OK or ▶
$\overline{\Phi}$	On Timer
Timers	Sleep Timer
Press ▲ / ▼	Press ▲ / ▼ and OK or ▶
2	Software Licences
Get Help	Software Upgrade
Octricip	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 ▲▼◀▶ to select the menu language and press OK. The Country/Language screen will appear.



Press ▲ / ▼ to highlight Country and press ▶ and ▲ / ▼ to select your country.



#### 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 ▲▼◀ ▶ to highlight Next and press OK.
The Location screen will appear.



- Press ▲ / ▼ to select Home or Store and press OK. For normal home use, select Home.
- Press AV 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 14.
- 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.



#### There are 3 methods for Wireless Setup:

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

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

- Assisted Setup follow step 11.
   Input the Security Key only.
- Manual Setup, skip to step 12. Input the all settings.

NOTE: EXIT is available during settings.

Number) and press OK.

10

In step 9, when you select Easy Setup;

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

Press ▼ 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 **⋖**/ **▶** to select **Yes** and press **OK**.



In step 9, when you select Assisted Setup;

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

Press ▲ / ▼ to select **Security Key** and press **OK**. The Software Keyboard window will appear (page 49).

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:

- TKIP/AFS: 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 ▲ / ▼ 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 13.



In step 9, 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 49).

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

Press ▲ / ▼ to select **Authentication** and then press ▶ and ▲ / ▼ to select **Open System**, **Shared Key**, **WPA-PSK** or **WPA2-PSK**. Press **OK**.

Press ▲ / ▼ to select Encryption, and then press ▶ and ▲ / ▼ to select None, WEP, 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 WPA-PSK or WPA2-PSK, only **TKIP** or **AES** is compatible.
- When incompatible Authentication/Encryption pairings are detected, a warning message will be displayed, and no connection attempt will be made until the incompatibility is resolved.
- There is only one key ID to set for WEP encryption.

Press ▲ / ▼ to select **Security Key** and press **OK**. Input the Security Key by using the Software Keyboard (page 49).

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 ▲ / ▼ to select Key ID and press ▶ and ▲ / ▼ to select 1 (default), 2, 3 or 4.

Press ▲ / ▼ 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 ▲ / ▼ to highlight Next.

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.



**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 TV Power On Control screen will appear. Select Disabled or Enabled and highlight Next



- Press OK, and Companion Device screen will appear. Select On or Off from Enable Control and Media Renderer 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 (✓).



If DVB-C is not supported in your area, **Cable** will not be displayed.

- When you select **Antenna** or **Cable**, follow step 18 to 21.
- When you select Satellite, skip to step 22.
- 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.

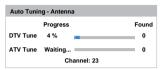
  The Auto Tuning start up screen will appear with the option to select between DTV and ATV, DTV or ATV if available. Press ▶ and ▲ / ▼ to select the appropriate mode and press OK.

B

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.



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.



#### 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 sends a 22 kHz signal. ToneBurst is only necessary for simple LNBs (not universal LNBs). The 22 kHz signal is needed for switching LNBs with multifeed signals as well as for changing between low- and high-band.
- 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.



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.



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.



Press ▲ / ▼ to highlight **Done** and press **OK**.

23

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



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

Press ▲ / ▼ to highlight **Store Position** and press **OK** to store the dish position. Repeat steps 22 and 23 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.



Press ▲ / ▼ to highlight **Done** and press **OK**.

If you select **Single Cable** in step 22, the **Single Cable Settings** screen will appear. You can set the appropriate value for each item and highlight **Done**.





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



You can select **Search Option** from **Free to Air** or **AII** 

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.

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 ▲ / ▼ 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.

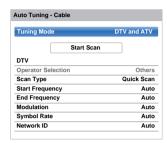
# Ant/Cable/Satellite (if available)

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

- Press → and ▲ / ▼ to highlight Installation icon.
- Press ▶ and ▲ / ▼ to select Channel Tuning and press OK.
- Press ▲ / ▼ to select Ant/Cable/Satellite and press OK.
- Press ▲ / ▼ to select Antenna, Cable or Satellite.
- Press ▲ / ▼ 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 ▲ / ▼ to select an item and press ▶ and ▲ / ▼ to select your desired option.



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

#### **Operator Selection:**

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

#### **DTV Scan Type:**

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

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

#### DTV Start Frequency:

This sets the frequency from which the scan will begin.

#### **DTV End Frequency:**

This sets the frequency at which the scan will end.

#### **DTV Modulation:**

You can choose from five QAM modulation settings.

#### **DTV Symbol Rate:**

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

#### **DTV Network ID:**

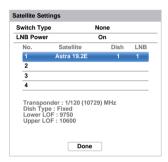
This is the Network ID to be utilized for the scan. This item is greyed out when DTV Scan Type is set to "Full Scan".

# **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:

- Press → and ▲ / ▼ 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.
- 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 highlight Switch Type.
- Press ◀/▶ to select None, ToneBurst, DiSEqC 2way, DiSEqC 4way or Single Cable as your satellite switch type.
- Press ▼ to highlight 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.



Press the GREEN button. The Transponder Settings screen will appear.

Transponder Settings				
	Frequency	Polarisation	Symbol Rate	S/S2
1	10743	H	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	٧	22000	s

Press ▲ to highlight a new line.

	Frequency	Polarisation	Symbol Rate	S/S2
76	12640	Н	22000	s
77	12662	Н	22000	s
78	12669	٧	22000	s
79	12692	н	22000	S
80	12699	V	22000	S
81	12721	н	22000	s
82	12728	٧	22000	s

4 Press OK



Edit each parameter as required and press **OK**.



#### 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.
- Press **OK** to save your settings.
- Repeat steps 1 through 3 for other lines.
- 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.



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.



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.

- Press → and ▲ / ▼ to highlight Installation icon.
- Press ▶ and ▲ / ▼ to select Channel Tuning and press OK.
- Press ▲ / ▼ to select Auto Tuning and press OK.



A message will appear, and then press ◀/▶ to select **Yes** and press **OK**.

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



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

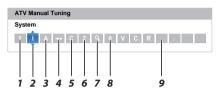
Press ▲ / ▼ to move through the list to select a channel and press **OK** to view.

# **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  $\P/
ightharpoonup to to move across the screen and select any of the ATV Manual Tuning options. Then use <math>A/\P$  to adjust the settings.



#### 1 Position

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

#### 2 System

Specific to certain areas.

#### 3 Colour System

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

## 4 Skip

Set Skip to On  $(\clubsuit)$  or Off  $(\clubsuit)$  for the selected channel. See page 24.

#### 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 89.

#### 9 Station

Station identification. Use the ▲▼ and ◀▶ 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.



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

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



- Each signal will show on the television. If it is not your media recorder, press ▲ / ▼ again to restart the search.
- When your media recorder signal is found, press to move along to **Station**. Use ▲▼◀▶ to put in the required characters, *e.g.* **VCR**.



- Press **OK** to save.
- Repeat for each **position** you want to tune.
- Press EXIT when you have finished.

#### PLEASE NOTE

This television has direct channel entry if the channel numbers are known.

Select the ATV Manual Tuning screen in Step 3. Enter the Position number, the System, then C for standard (terrestrial) channels or S for cable channels and the Channel number. Press OK to save.

#### Skip

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

- Select ATV Manual Tuning from the Channel Tuning menu.
- Press ▲ / ▼ to highlight the position to be skipped and press **OK**.

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

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

• on the screen indicates a skipped position.



Press BACK and repeat from Step 2 or press EXIT.

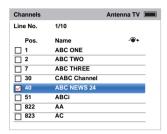
Each position has to be *individually* selected. To turn **Skip** off, repeat the procedure for each position.

Skipped positions *cannot* be selected by **P^** and **Pv** 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 ▶.



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

Repeat as necessary and press EXIT.

# **DTV Manual Tuning**

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

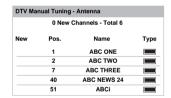
# **Manual Tuning**

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.



- Enter the multiplex number using the number buttons or use ◀/▶ to adjust the number up or down.
- Highlight **Start Scan** and press **OK**. The television will automatically search for that multiplex.



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

**Modulation:** Choose from one of five QAM modulation options

**Symbol Rate:** Input a specific baud rate (KS/s) to be used for the manual scan

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:



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.

# **DTV Settings**

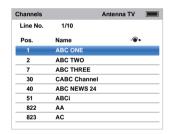
#### Channels (Antenna/Cable)

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

- Select **DTV Settings** from the **Installation** menu and press **OK**.
- Press ▼ to select **Channels** and press **OK**.



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



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

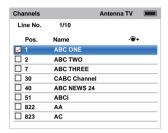
It is also possible to change the Position number of a particular channel.

**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.



Move — Press the GREEN button to activate the Move feature. Press ▲ / ▼ 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 ▲ / ▼ 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



Position No. Sort — Press the YELLOW button. A confirmation window will appear. Press ◀/▶ to select Yes and press OK.



# **Channels (Satellite)**

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

The satellite channel list will appear.



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**.

**Renumber** — Same as Antenna/Cable channels. See page 26.

**Move** — Same as Antenna/Cable channels. See page 27.

Position No. Sort — Press the YELLOW button. A confirmation window will appear. Press ◀/▶ to select Yes and press OK.

# **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.
- Press ▼ to select Standby Channel Update and press ▶ and ▲ / ▼ to select On.

# Location setting

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

- Select Location from the Installation menu.
- 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.

# **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  $\triangle$  /  $\nabla$  to select the option.



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

#### Quick menu item example

Mode	Quick menu item	Description
When viewing a TV	Intel <sup>®</sup> WiDi	See page 64.
programme or pictures from the	Picture Mode	See page 38.
external input	Picture Size	See page 36.
Single Window	3D Settings	See page 30.
Cingle Trinden	More Information	See page 76.
	Channel Options	See page 78.
	Sleep Timer	See page 74.
	HDMI CEC Device Control	See page 85.
	Speakers	See page 85.
	Headphone Level	See page 35.
	Wireless Information	See page 46.
	Recording Information	See page 76.
When using EPG	Genre Colour	See page 77.
	EPG Update / Cancel EPG Update	See page 76.
Media Player	Picture	See page 38.
	3D Settings	See page 30.
	Sound	See page 34.
	Interval Time	See page 68.
	Repeat	See page 68.
	Background Music	See page 68.
	Play List	See page 69.
	Sleep Timer	See page 74.
	Speakers	See page 85.
	Headphone Level	See page 35.

# Selecting channels

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

Channels can also be selected using P^ 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 (1/2) 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 ∭[/[] and use ◀/▶ to select settings.

•	
Mode Display	Pressing ►
	Stereo → Left → Right
O Dual mono	Dual 1 → Dual 2 → Dual
	-
Multichannel	-

For multi-audio track broadcasts, press \( \)\[\]\[ \]\ repeatedly to change the audio language (see "Audio languages" on page 79).

#### 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 ()]/II 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 ဤ/∏ to select Dual 1, Dual 2 or Mono.

# **Using 3D functions**

Before using 3D programming, see and follow "Important information for 3D viewing" section on page 100.

# Viewing 3D programming requires the following:

- Toshiba FPT-AG03 (L73\*5D/M83\*5D: 2pcs supplied, L73\*\*RK/L73\*\*RB: 1pcs supplied, L73\*3D/L73\*1D: Not supplied)
- · Compatible 3D playback device or 3D source
- 3D capable high quality HDMI cable

# Viewing 3D images

Incoming video signals can either be in 2D or 3D format. A 2D signal can be viewed in either 2D or 3D, and 3D can be viewed in either 2D or 3D. If the TV can detect the fact that a signal is 3D, it can change to 3D mode automatically

- see "Setting the auto start mode" (on page 31).
Otherwise you can change the viewing mode using the 3D button. Finally, the format of the 3D signal can be either Side by Side (SBS) or Top and Bottom (TB). You may have to choose the correct format if the TV can not detect it automatically - see "Switching display mode or selecting 3D format".

Moreover, you can change 2D images to 3D images by pressing the 3D button when viewing in 2D.

#### NOTE:

- When 3D format signal is not received, display mode is not switched to 3D.
- If appropriate mode and format are not selected, 3D image is not correctly displayed.
- There will be restrictions on the Picture Size settings for 3D Mode and 2D Mode.
- There are individual differences in perception of 3D images.
- · When viewing 3D images, wear the 3D Glasses.
- The 2D to 3D conversion function is activated and controlled by you according to your personal preferences.
- The 2D to 3D conversion function is meant for enjoyment of 2D home video, and other 2D content you create, in 3D according to your personal preferences.
- The 2D to 3D conversion function is not intended for use with pre-recorded 2D copyrighted content owned by a third-party unless the copyright owner has given direct or indirect permission, or unless applicable law permits such use.

# Switching display mode or selecting 3D format

There are four modes for watching TV.

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

<sup>\*</sup> This mode does not support all content depending on its input source format.

#### 3D format select

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

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

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

<sup>\*</sup> This format cannot be selected manually.

#### The 3D button's operation

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

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

#### To switch to 3D mode:

- Set 3D Auto Start in the 3D menu to 3D.
- Press 3D while viewing 2D mode or Native mode.

Input Sid	T	Press 3D button			
Туре	Additional Information	Format	Source Signal		
3D Format Signal	Format Auto Detect FP		3D 3D	* 3D	
SBS		3D 3D	* 3D		
ТВ		3D 3D	* 3D		
	Without 3D Auto Detect	SBS	3D 3D	* 3D	3D 3D
	Information	ТВ	(SD)	D 3	
2D Form	2D Format Signal			D 3	* 3D

<sup>\*</sup> Correct 3D image

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

- Press QUICK to open the Quick Menu.
- Press ▲ / ▼ to select 3D Settings and press OK.
- Press ▲ / ▼ to select 3D Format Select and press OK.
- Press ◀/▶ to select 3D (SBS) or 3D (TB).

		Quick menu			
Input Sig	ınal			3D Format	Select
Туре	Additional Info	Format	Source Signal	SBS	ТВ
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D		
		SBS	3D 3D		
		ТВ	(B)		
	Without 3D Auto Detect	SBS	3D 3D	* 3D	חפ חפ
	Information	ТВ	SD SD	3 0 0	* 3D
2D Form	2D Format Signal			D 3	סט

<sup>\*</sup> Correct 3D image

#### To switch to 2D mode:

- . Set 3D Auto Start in the 3D menu to 2D.
- Press 3D while viewing 3D mode.

Input Sig	Press 3D button			
Туре	Additional Info	Format	Source Signal	button
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D	* 3D
		SBS	3D 3D	* 3D
		ТВ	ein ein	* 3D
	Without 3D Auto Detect	SBS	3D 3D	3D 3D
	Information	ТВ	80	(EID)
2D Format Signal			3D	* 3D

<sup>\*</sup> Correct 2D image

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

- Press QUICK to open the Quick Menu.
- Press ▲ / ▼ to select 3D Settings and press OK.
- Press ▲ / ▼ to select 2D Format Select and press OK.
- Press ◀/ ► to select Native, 2D (SBS) or 2D (TB).

Trigger of Switching Display Mode				Quick me	nu	
Input S	ignal	_		2D Forma	at Select	
Туре	Additional Info	Format	Source Signal	SBS	ТВ	Native
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D			
		SBS	3D 3D	* 3D		3D 3D
		ТВ	(3) (3)		* 3D	
	Without 3D Auto Detect	SBS	3D 3D	* 3D	חכ חכ	3D 3D
	Information	ТВ	80 80	m m	* 3D	ed ed
2D Format Signal			3D	3	מפ	3D

Correct 2D image

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

#### To switch to Native mode:

- Press 3D while viewing 3D mode.
- Press 3D while viewing 2D to 3D mode.

**NOTE:** When 3D format signal with 3D Auto Detect Information is received, it is not possible to switch to Native.

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

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

#### To switch to 2D to 3D mode:

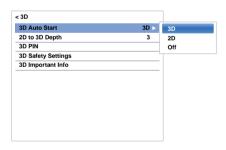
Press 3D while viewing 2D or Native mode.

**NOTE:** Depending on the input mode, the display mode switches between 2D and 3D.

# Setting the auto start mode

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

- Press → and ▲ / ▼ to highlight 3D icon.
- Press ▶ and ▲ / ▼ to select 3D Auto Start.
- Press ◀/▶ to select 3D, 2D, or Off and press OK.



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

## Adjusting 2D to 3D Depth

You can adjust the level of 3D.

#### From the Menu:

- In the 3D menu, press ▲ / ▼ to select 2D to 3D Depth and press OK.
- Press ◀/▶ to select 1, 2, 3, 4, or 5 and press OK.

  The higher the number, the stronger the 3D effect.

#### From the Quick Menu:

- Press QUICK to open the Quick Menu.
- Press ▲ / ▼ to select 3D Settings and press OK.
- Press ▲ / ▼ to select 2D to 3D Depth and press OK.
- Press ◀/▶ to select 1, 2, 3, 4, or 5 and press OK.
  The higher the number, the stronger the 3D effect.

**NOTE:** Depending on the content, setting the 3D effect to a high level may result in blurring of the image contours and background.

If you experience any abnormal sensation or feel fatigue or nausea when viewing 3D images, stop watching and rest until the symptoms subside. Before viewing again, adjust the 3D effect to a lower number and view at a level at which the symptoms do not occur.

## Setting the 3D PIN code

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

#### To enter a new PIN code:

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

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

#### To change or delete your PIN code:

- In the 3D menu, press ▲ / ▼ to select 3D PIN and press OK.
- Press the number buttons to enter your 4-digit PIN code.
- Select Change PIN or Delete PIN and press OK.

#### NOTE:

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

# **Setting 3D Start Message**

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

- In the 3D menu, press ▲ / ▼ to select 3D Safety Settings and press OK.
- 2 Enter your 4-digit 3D PIN code.
- Press ▲ / ▼ to select 3D Start Message.
- Press ▶ and ▲ / ▼ to select On or Off.

# Setting 3D Lock

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

- In the 3D menu, press ▲ / ▼ to select 3D Safety Settings and press OK.
- 2 Enter your 4-digit 3D PIN code.
- Press ▲ / ▼ to select 3D Lock.
- Press ◀/▶ to select On.

# **Setting 3D Timer Lock**

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

**NOTE:** This feature cannot be selected until the **3D PIN** is set.

- In the 3D menu, press ▲ / ▼ to select 3D Safety Settings and press OK.
- 2 Enter your 4-digit 3D PIN code.
- Press ▲ / ▼ to select 3D Timer Lock.
- Press ▶ and ▲ / ▼ to select On.

# Setting Enable 3D Timer

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

- In the 3D menu, press ▲ / ▼ to select 3D Safety Settings and press OK.
- 2 Enter your 4-digit 3D PIN code.
- Press ▲ / ▼ to select Enable 3D Timer.
- Press ➤ and ▲ / ▼ to select 30, 60, 90, or 120 minutes.
- To cancel the timer, select **Off**.

# **Displaying 3D Important Info**

In the 3D menu, press ▲ / ▼ to select 3D Important Info and press OK.

A message will appear.

# Switching left and right images

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

- Press QUICK to open the Quick Menu.
- Press ▲ / ▼ to select 3D Settings and press OK.
- Press ▲ / ▼ to select Left and Right Image.
- Press ▶ and ▲ / ▼ to select Swapped and press OK.

# Sound controls

#### Volume controls and sound mute

#### Volume

Press \( \sigma + \) or \( \sigma - \) to adjust the volume.

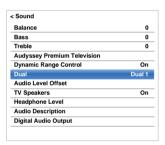
#### **Sound Mute**

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

#### Dual

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

- Press → and ▲ / ▼ to highlight Sound icon.
- Press ▶ and ▲ / ▼ to select **Dual** and press ▶ and ▲ / ▼ to choose between **Dual 1** or **Dual 2**.



#### **Balance**

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

# Bass, Treble

- In the **Sound** menu, press ▲ / ▼ to select **Bass** or **Treble**
- Press ◀/▶ to change the setting.

# TV Mounting (Wall/Table)

Audyssey TV Mounting feature can provide an appropriate sound depending on the TV installation type, that TV is installed on a wall or a TV table.

- In the Sound menu, press ▲ / ▼ to select

  Audyssey Premium Television and press OK.
- Press ▲ / ▼ to select TV Mounting.
- Press ▶ and ▲ / ▼ to select Wall or Table.

#### **Dvnamic Volume®**

Audyssey Dynamic Volume<sup>®</sup> controls volume levels to eliminate loud spikes and raise soft dialog for more enjoyable television and movie viewing.

- In the Sound menu, press ▲ / ▼ to select
  Audyssey Premium Television and press OK.
- Press ▲ / ▼ to select **Dynamic Volume**.
- Press ▶ and ▲ / ▼ to select Day, Night or Off.

## Audyssey ABX™

Audyssey ABX™ technology uses sophisticated driver analysis and low frequency monitoring to extend the range and bass of small speakers. This enables the system to produce lower frequencies that would be possible with a traditional system of the same size.

- In the Sound menu, press ▲ / ▼ to select

  Audyssey Premium Television and press OK.
- Press ▲ / ▼ to select Audyssey ABX.
- Press ▶ and ▲ / ▼ to select the desired
  Audyssey ABX level (Low, High 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.
- Press ▶ and ▲ / ▼ to select On or Off.

#### **Audio Level Offset**

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

- Set the volume level usually used when watching a DTV 5.1ch programme.
- Tune to a channel which is DTV 2ch, ATV or an external input.
- In the Sound menu, press ▲ / ▼ to select Audio
  Level Offset and press OK.
- Press ▲ / ▼ to select an option, and then press ◀ / ▶ to adjust the volume level.



#### 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 greyed 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 On/Off

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

- In the Sound menu, press ▲ / ▼ to select TV Speakers.
- Press ▶ and ▲ / ▼ to select Off.

#### To turn on the built-in speakers:

Select On in step 2.

# **Headphone Settings**

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

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

- In the Sound menu, press ▲ / ▼ to select Headphone Level and press OK.
- Press ▲ / ▼ to select **Speaker Link** and press ▶ and ▲ / ▼ to select **On** or **Off**.



If you select **Off**, then highlight **Headphone Level** and use **◄**/**▶** 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.

- In the Sound menu, press ▲ / ▼ to select Audio Description and press OK.
- Press ▲ / ▼ to select Audio Description and press ▶ and ▲ / ▼ to select On.

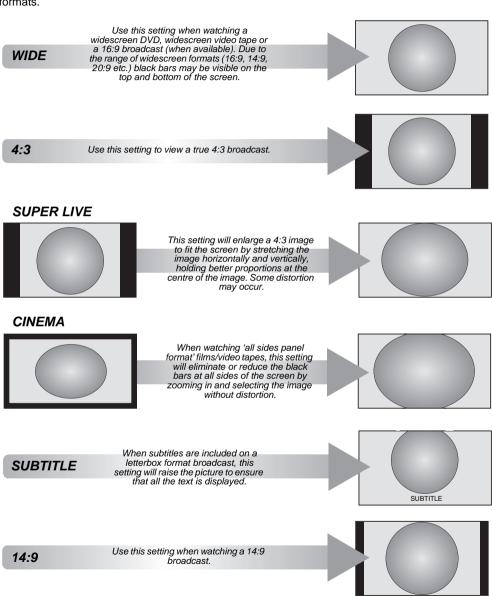
The AD button on the remote control can also be used to toggle the Audio Description feature between On and Off.

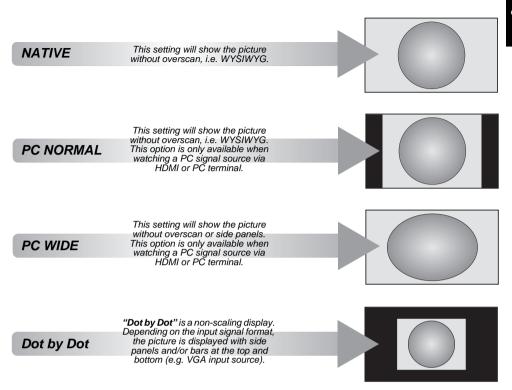
To adjust the level of the audio description sound to the main sound, highlight **Mixing Level** and press ◀/▶.



# Widescreen viewing

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

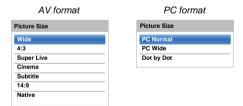




Press the F button on the remote control to display the list of available widescreen formats.

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 → 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	
Display Setting	

Press ▲ / ▼ to select the picture mode you prefer and press OK.

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

# Picture preferences

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

- 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**.

#### Reset

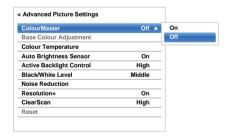
This feature resets all picture settings to the factory settings except **Picture Mode**.

- In the **Picture** menu, press ▲ / ▼ to select **Reset** and press **OK**.
- A confirmation message will appear. Press ◀/► to select **Yes** and press **OK**.

# 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 ▼ to select ColourMaster and press ▶ and ▲ / ▼ to select On or Off.



# **Base Colour Adjustment**

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

- In the Advanced Picture Settings menu, press

  ▲ / ▼ to select Base Colour Adjustment and
  press OK.
- Press ▲ / ▼ to select an option and press ▶ to move to the adjustment window.

Bas	e Colour Ad	justment	:		
		Hue	Saturation	Brightness	
	Red	0	0	0	۲
	Green	0	0	0	
	Blue	0	0	0	
	Yellow	0	0	0	
	Magenta	0	0	0	
	Cyan	0	0	0	
		Res	et		
		₩ E	dit		

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



4 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.
- Press ▲ / ▼ to select Colour Temperature and press OK.
- 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.

- Press ▲ / ▼ 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

- 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

## Black/White Level

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

- 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.

- In the Advanced Picture Settings menu, press

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

MPEG NR	Low
DNR	Auto

Press ▲ / ▼ 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.

#### NOTF:

- 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).

## ClearScan

This feature helps to eliminate video shaking.

- In the Advanced Picture Settings menu, press

  ▲ / ▼ to select ClearScan and press OK.
- Press ▲ / ▼ to select High, Middle, Standard or 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**.
- Press OK.

# **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 ▲ / ▼ to select Expert Picture Settings and press OK.
- Press ▲ / ▼ to select Test Pattern and press OK.
- Press ▲ / ▼ to select **On** 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.
- Press ▲ / ▼ to select **On** and press **OK**.
- Press ▲ / ▼ to select Colour or Tint and press ◀ / ▶ to adjust.
- 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 ▲ / ▼ to select Window Display and press ▶ and ▲ / ▼ to select On and press OK.

# White Balance-Setting Type

You can choose from two types of White Balance adjustment.

- In the Expert Picture Settings menu, press ▲ / ▼ to select White Balance and press OK.
- Press ▲ / ▼ to select Setting Type and press OK.
- Press ▲ / ▼ to select 2P or 10P and press OK.

### 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.

Press ◀/▶ to adjust and press OK.

#### White Balance-10P White Balance

- Press ▼ to select 10P White Balance.
- Press ▲ / ▼ to select IRE. Red. Green, or Blue.
- 3 Press **◄**/▶ to adjust and press **OK**.

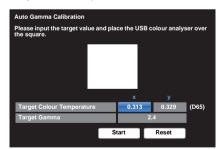
**NOTE:** The adjustments made for Red / Green / Blue are stored separately for each IRE setting. (There are ten IRE settings from 10 to 100.)

#### Gamma Calibration

Toshiba has integrated picture calibration systems into its LCD televisions. Now you can enjoy the benefits of automatically calibrated gamma and white levels.

In order to take advantage of these features the Toshiba colour analyzer TPA-1 is required.

- In the Expert Picture Settings menu, press ▲ / ▼ to select Gamma Calibration and press OK.
- Press ▲ / ▼ to select Apply Calibration and press ▶ and ▲ / ▼ to select Enabled and press OK.
- Press ▲ / ▼ to select Auto Gamma Calibration and press OK.
- Connect the USB colour analyzer to the USB 1 or USB 2 port.
- Input the target value and place the USB colour analyzer over the square on screen.



6 Highlight Start and press OK.

Auto Gamma Calibration will start.

Please wait until you see "Auto Gamma Calibration has been completed." on screen.

## To return to factory setting

Highlight Reset and press OK.

# **Automatic Format (Widescreen)**

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

- Press → 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.



# 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 ▲ / ▼ 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 ▲ / ▼ to select Picture Position and press OK.
- Press ▲ / ▼ to select an option and press ◀ / ▶ to adjust the settings and press **OK**.

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



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

## Picture still

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

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

# **HDMI Information Display**

When the HDMI Information Display feature is On and you are watching an HDMI input source, pressing (j+ 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	A = 4 = 1 =	IS	lasta ad
ΑI	Austria	15	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.



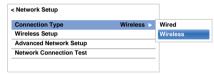
# Setting up the Network

You can select the Network Type.

- Press **3**—**C** and **△** / **V** to highlight **Network** icon.
- Press ▶ and ▲ / ▼ to select Network Setup and press OK.



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



If you selected **Wired**, see "Advanced Network Setup" on page 47.

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 (WPS)

If the AP supports WPS, this method can be used.

 WPS is an industry standard designed to make connection of wireless LAN equipment and security setup easy. WPS will automatically configure all wireless settings.

**NOTE:** WEP 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.
- Press ▲ / ▼ to select Easy Setup and press OK.



- Press ▶ and ▲ / ▼ to select PBC.
- 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.
- Press ▲ / ▼ to select Easy Setup and press OK.
- Press ▶ and ▲ / ▼ to select PIN.
- Press ▼ to select Start Scan and press OK.
- 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**

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



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.
- 6 Input the Security Key by using the Software Keyboard (see page 49). To save your setting, press the **GREEN** button.

#### NOTE:

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

NOTE: If Network Name is not displayed, see step 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 ▲ / ▼ 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 49). To save your setting, press the **GREEN** button.
- Press ▲ / ▼ to select Authentication and press ▶ and ▲ / ▼ to select Open System, Shared Key, WPA-PSK or WPA2-PSK.
- Press ▲ / ▼ to select Encryption and press ► and ▲ / ▼ to select None, WEP, TKIP or AES.

#### NOTE:

- Certain encryption types are only compatible with specific authentication types.
  - When Authentication is Open System, only WEP or None is compatible.
  - When Authentication is Shared Key, only WEP is compatible.
  - When Authentication is WPA-PSK or WPA2-PSK, only TKIP or AES is compatible.
- When incompatible Authentication/Encryption pairings are detected, a warning message will be displayed, and no connection attempt will be made until the incompatibility is resolved.
- There is only one key ID to set for WEP encryption.
- Press ▲ / ▼ to select Security Key and press OK.
- 19 Input the Security Key by using the Software Keyboard (see page 49). 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.

Press QUICK to open the Quick Menu.

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

Intel® WiDi	
Picture Mode	Standard
Picture Size	Wide
3D Settings	
More Information	
Channel Options	
Sleep Timer	
HDMI CEC Device Control	
Speakers	TV Speakers
Headphone Level	30
Wireless Information	
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)
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 45).

#### Notes on wireless LAN environment

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

# Advanced Network Setup

#### NOTE:

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

# **IP Address Setup**

## **Auto Setup**

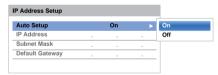
- In the **Network** menu, press ▲ / ▼ to select **Network Setup** and press **OK**.
- Press ▲ / ▼ to select Advanced Network Setup and press OK.



Press ▲ / ▼ to select IP Address Setup and press OK.



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.
- Press ▲ / ▼ to select IP Address Setup and press OK.

Highlight Auto Setup and press ▶ and ▲ / ▼ to select Off

luto Setup	Off	0
P Address	XXX . XXX . XXX	Of
Subnet Mask	XXX . XXX . XXX . XXX	_
Default Gateway	XXX XXX XXX XXX	

- Press ▲ / ▼ to select IP Address.
- Press ◀/▶ to highlight the field you want to change, and then use the number buttons to input the IP address. To save the setting, press OK.

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

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

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

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.

# **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.

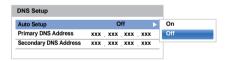
## Auto setup

- In the **Network** menu, press ▲ / ▼ to select **Network Setup** and press **OK**.
- Press ▲ / ▼ to select Advanced Network Setup and press OK.
- Press ▲ / ▼ 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.
- Press ▲ / ▼ to select DNS Setup and press OK.
- Press ▲ / ▼ to select Auto Setup and press ▶ and ▲ / ▼ to select Off.



- Press ▲ / ▼ 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 ▲ / ▼ 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.
- 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.



## Input operation on the remote control:

Button	Description
ок	Inputs the selected character.
0-9	Selects a character for entry.
<b>AV4Þ</b>	Moves the character highlight.
RED	Deletes 1 character to the left of the cursor.
GREEN	Functions as "Done".
YELLOW	Functions as "Shift" key.
BLUE	Displays the help window.
BACK	Closes the Software Keyboard window without saving changes.

# **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 44) 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 ▲ / ▼ to select **Network Device Setup** and press **OK**.
- Press ▲ / ▼ to select External Control Setup and press OK.



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



#### **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.

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

- Press ▲ / ▼ to highlight the Companion Device ID.
- Press ▲ / ▼ 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.

# TV Power On Control (Active Standby)

When the TV is connected to the home network via Wireless LAN, with the TV Power On 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 TV Power On Control and press ▶ and ▲ / ▼ to select Enabled (Active Standby).

#### 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.

- In the **Network** menu, press ▲ / ▼ to select **Network Device Setup** and press **OK**.
- Press ▲ / ▼ to select **Media Renderer** and press ▶ and ▲ / ▼ 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.

## Terminology

DMS: Digital Media Server

DMR: Digital Media Renderer

DMC: Digital Media Controller

**NOTE:** You cannot use 3D function in operating as a media renderer.

# **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.
- 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 49). To save your setting, press the **GREEN** button.

#### NOTE:

- 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**

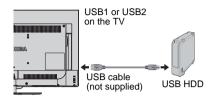
This function can be used to record and play digital broadcast programmes (function is dependant on country selection). Read the precautions below before recording or viewing programmes using the USB HDD record function.

## 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.
- 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.
- Scheduling of multiple consecutive programmes may result in the beginning of each programme not being recorded.
- 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 program 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.
- When the USB HDD is formatted, all the data stored on the HDD will be erased.

# 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 **◄**/**▶** to select **No** and press **OK**.

NOTE: Not guaranteed to work with all USB HDD.

# 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 **◄**/**▶** to select **Yes** and press **OK**. Recording will stop.

# 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

- 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**.
- The Edit Timer screen will appear.

  Press ▲ / ▼ to select Timer Type.



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



- 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.
- Press **OK**. The **Edit Timer** screen will appear. Press **▲** / **▼** to select **Timer Type**.



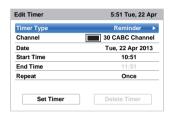
- Press ▶ and ▲ / ▼ to select Recording and press OK.
- Press ▲ / ▼ to highlight Set Timer and press OK.

## To programme the timer:

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

The Edit Timer screen will appear.

Press ▲ / ▼ to select Timer Type.



- Press ▶ and ▲ / ▼ to select Recording and press OK.
- Press ▲ / ▼ to go through the list adding the details of the programme by using the number buttons and ◀ / ▶ to make selections.
  - Channel
     Soloet the channel you wish to record
  - Select the channel you wish to record.

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.

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

# To schedule a programme using the information screen:

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



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

Press ▲ / ▼ to select Timer Type.



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

Programme Timers screen will appear.

### **Recording List**

- Depending on the transmitter information, the programme broadcast time or other information may not be correctly displayed in the recording list.
- The programme does not appear in the recording list immediately at the start of recording, but appears a few minutes after recording starts.
- Up to 64 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 **Programme Timers** screen to check the schedule.

#### To edit a schedule:

Press ▲ / ▼ on the Programme Timers 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.

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

#### To delete a schedule:

Press ▲ / ▼ on the **Programme Timers** 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 **Library** screen and select a title from the recorded programme list.

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



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 **BLUE** button.

Press OK.

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.

<b>&gt;</b>	To PLAY	<b>&gt;&gt;</b>	To FAST FORWARD
	To STOP	₩	To SKIP- FORWARD
II	To PAUSE/STEP	<b>4&gt;</b>	To shift playback position
144	To SKIP-BACK		
44	To REWIND		

# Operations from the Library screen

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

# To display the Library screen:

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



### 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. icon appears next to the title and the programme is protected.

If Protect is set to **On** when the programme is recorded,  $\widehat{\mathbf{m}}$  icon appears next to the title of the recorded programme.

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

#### To group the recorded programmes



**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 Library screen is displayed.
- Press ▼ to select Title Edit and press OK.

  The Software Keyboard window will appear.
  - Input your desired title by using the software keyboard (see page 49). Press the **GREEN** button to save your settings.

## To delete a recorded programme:

- 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.



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

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

#### NOTE:

- 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**.



**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 → and ▲ / ▼ 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	

Select USB HDD and Partition you want to recording.

# To set the recording time for One Touch Recording:

- Press → and ▲ / ▼ to highlight Options icon.
- Press ▶ and ▲ / ▼ to select Recording Setup and press OK.
- Press ▲ / ▼ to select One Touch Recording
  Time and press ▶ and ▲ / ▼ to select the
  recording time.

Select Device		Programme End Time
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

You can set the **Programme End Time** in 30-minute increments in the range of 30 minutes to 330 minutes

#### To select the TimeShift Size:

- In the Recording Setup screen, press ▲ / ▼ 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.

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 recording buffer will be reset to the beginning.

- Press ► (play).
  Catch-up viewing will start from where the programme was paused.
- Press (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 ◀ / ▶ 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 ▲ / ▼ to select End Padding Time.
- Press ◀ / ▶ 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:



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



Press **◄** / ▶ 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 56), 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.

# **Using the Cloud TV Service**

Toshiba's universal portal for internet content and services (services are dependent on country).

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



Press A.

The menu screen of the Cloud TV service will appear.



Press ▲▼◀ ▶ to select a Cloud TV service, and press OK

For the operations of the Cloud TV service, 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
- 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**.
- Enter the desired URL address by using the Software Keyboard (page 49).

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.
- Enter the desired URL address by using the Software Keyboard (page 49).
- Press ▲▼◀▶ to scroll Favourites STAR on the Toolbar and press **OK**.
- Press **OK** to save the desired website to your Favourites.
- Press **BACK** on the remote to return to browsing vour website.

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

**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

- Press on the remote control and select Internet icon to open the web browser.
- Use ▲▼◀▶ to select Favourites STAR and press
- Select the item or folders to move to the desired URL address and press **OK**.
- You can now browse websites on your TV using

  ▲▼◀▶ 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 program 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 set in the web browser settings.
- P^ and P buttons cannot be used when the PIP window is displayed.
- Images in the PIP window cannot be displayed in 3D.
- Images from 3D signals will not be displayed in the PIP window.

# To stop displaying the PIP window:

Press the **RED** button when the PIP window is displayed.

# **Using Skype**

Skype-ready Toshiba TVs bring your family and friends closer to your home. Skype on your Toshiba TV allows you to share special moments no matter the distance.

### Before using Skype - Preparation

 Connect the FREETALK HD Camera: TALK-7291 to the TV's USB terminal. Do not use a USB hub.
 For a Skype-ready Toshiba TV compatible camera, please visit the following website:

### http://shop.skype.com

- Arrange the HD camera on top of the TV, ensuring it's in the centre.
- · Connect to the network.

#### NOTE:

- The HD camera is sold separately.
- Do not connect a camera other than the recommended HD camera.
- Using a wireless network may result in degraded call quality.
- Some of the features available on other versions of Skype are not available on the television.
- When using Skype, some functions of the TV will not be available.
- · The sound settings are switched to Skype mode.
- If you cannot hear the person you're speaking with, check your TV volume.
- When Optical Digital output or Analogue output is used and you are signed in, the ring tone may not sound.
- The volume level on Skype may differ from other features on your TV.
- When the Reset TV feature is used from the TV Menu, Skype information is reset to factory default settings.
- Screenshots used in this manual may differ from the TV Menu, Skype will be reset to its factory default settings.



# No emergency calls with Skype

Skype cannot be used for emergency calls.

## **Getting started**

1 Press on the remote control.



Press ▲▼◀▶ to select **Skype** icon and press **OK**.

"Welcome to Skype" screen appears.



You can select a Skype name from the Skype Name drop down menu.

Select Sign in or Create Account.

#### To create a new account:

If you do not already have a Skype account, you can create a new one from your TV.

Select Create Account in the Welcome to Skype screen and press OK.







# Enter your Full Name, Skype Name, Password, Repeat password, and Email.

- If you want to receive Skype news and special offers, check the selection box. Skype will inform users about new products, features and special offers by email.
- Select "I agree create an account" and press OK.
- You'll now be signed into your new account.

#### NOTE:

- Please ensure that you have entered your email address correctly. It is required in case you lose or forget your password.
- If you forget your password, visit skype.com to retrieve it.
- If a message appears informing you that the entered Skype name is already registered, please choose a different name.

# To Sign into Skype:

If you have a Skype account, sign into Skype in the **Welcome to Skype** screen.

- Enter your Skype Name and Password.
- Select Sign in and press OK.
  - If "Sign in when Skype starts" is checked, your account will sign in automatically when you launch Skype from the menu.
  - If "Start Skype when TV starts" is checked, your account will sign in automatically when you turn on the TV.

Both these options can be selected together.

## **Basic Operation**

Press ▲ / ▼ to select a tab (Contacts/People, Recent, Settings). Press ▶ and ▲ / ▼ to select a contact from the liet

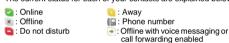
Your contact list will contain the following information: Contact name / Current online status / Profile picture / Mood message

Your profile picture, status, Skype Name, mood message and available Skype Credit.



EXIT: Return to previous screen. When at contact list, the EXIT button will close Skype application without sign out.

The current status for each of your contacts are explained below:



# Contacts/People 🖪

Press ▲ / ▼ to select **Contacts/People** tab. Press ▶ and ▲ / ▼ to select a contact.

When pressing **OK** at each contact, the following functions will appear:



#### Initiate Video Call Initiate Voice Call

View Profile

 View contact profile (including Skype name, full name, birth date, gender, location, mobile number and email).

number and email).
end Voice - Send Voice Message to contact

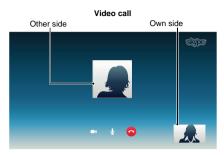
Send Voice Message Block

- Block / unblock contact

Remove - Block / unblock contact
- Remove contact from list

#### Video or Voice call

Press ▲▼◀► to select Video call or Voice call, your screen will now display your call as shown below.



Voice call



Below is all icon pictures in conversation window.

- Start video
- Stop video
- Resume the call
- Unmute the webcam mic
- Mute the webcam mic
- Normal size video
- Full screen video
- Open dial pad
- End call (Hang up the call)

#### **Group calls**

Using your Toshiba TV, you can join Skype group voice and video calls. However, you can only send and receive audio whilst on these calls.

**NOTE:** You must be invited on to a group call, you cannot initiate it from the TV.

## Incoming call

Incoming calls on Skype will be displayed on the bottom right hand corner of your TV screen. You'll also hear a ring tone which can be adjusted using the **VOLUME** buttons on your remote control.



You are given three options when an incoming call arrives:

- Video : Answer by video call.
- Voice : Answer by voice call.
- . Decline: Decline the incoming call.

**NOTE:** If other applications are active or recording, you'll only get an "Incoming call notification" until the application or recording has stopped.

#### Status

When you press the **GREEN** button, the change status window will appear as below. You can change your status by pressing ▲ / ▼ and **OK**. Press **BACK** to exit.



#### **Add Contact**

You can add contacts to your list of contacts.

When you press the **YELLOW** button, the **Add Contact Type** menu window will appear.



Two sub-functions are supported.

Press  $\blacktriangle$  /  $\blacktriangledown$  to select **Skype Contact** or **Phone Number** and press **OK**.

#### Skype Contact

Enter the Skype Name of the person you're looking for. The search result will show up after get response from Skype server.

#### Phone Number

You can also enter a phone number in the search window.

#### **Contact Search Results**



You can send a contact request to a person displayed in the search results. Press ▲ / ▼ to select a person and press **OK**.

#### Notification of authorization request



When you receive a contact request, a pop-up menu will appear where you can choose to **Accept**, **Block** or **Decline** the request.

Press ▲ / ▼ to select and press OK.



Press **◄**/**▶** button to select and press **OK**.



# Recent (

You can see a list of past events in "Recent".

Press ▲ / ▼ to select the Recent tab. Press ▶ and ▲ / ▼ to select an item and press **OK.** 



Press **◄/** ► to select Video call or Voice call.

Each call has an icon with it. The meaning of each icon is as follows:

Icons	Description
R	Incoming call
E	Outgoing call
	Missed call
6	Unread Voice Message
970	Voice message

# Dialer 🔐

You can call mobiles and landlines from this screen.

Press ▲ / ▼ to select the **Dialer** tab. Press ▶ and ▲ / ▼ to navigate this screen.



Select the country or region first, and then enter the phone number with area code. You'll need a little Skype Credit in your account to call mobiles or landlines using Skype. Emergency calls over Skype are not supported.

# Settings 🌣

Press  $\blacktriangle$  /  $\blacktriangledown$  to select the **Settings** tab and press  $\mathbf{OK}.$ 

The Settings window will appear.



You can change the following settings:

#### User Profile

Add or change your personal information e.g. birth date, country/region or phone number.

### Change Password

You can change your password by entering your existing password and new password twice.

#### General Settings

Select whether Skype should automatically start when turning on the TV.

### Audio Settings

Adjust the speaker / ringtone volume manually.

The volume of your speakers will be different on Skype compared to your normal TV volume level. The speaker volume range is 0 - 100 % by 1 steps, and ringtone volume is 0 - 100 % by 25 steps.

#### Privacy Settings

Set who you allow calls from, whether it's Anyone or People in my Contact list only.

#### • Blocked Contacts

If you do not want someone to reach you, simply block them by entering their Skype Name or phone number from this menu. Successfully blocked contacts are displayed in this window.

#### Call Settings

If you're not signed into Skype, you can forward incoming calls to another phone number or Skype name, or choose to accept voice messages. However you'll need to have Skype Credit to turn this feature on.

### About Skype

Displays information about Skype.

# Using Hybrid TV Standard (if available)

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

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

- Press **3**—**C** and **△** / **▼** to highlight **Options** icon.
- Press ▶ and ▲ / ▼ to select Hybrid TV Standard.
- Press ▶ and ▲ / ▼ 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 ▲▼◀▶ to select the desired contents.

#### NOTE:

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

# Using Intel® Wireless Display

Intel<sup>®</sup> Wireless Display (Intel<sup>®</sup> WiDi) is supported on this TV. You can use your TV as second display for PC with Intel<sup>®</sup> Wireless Display.

- Press QUICK to open the Quick Menu.
- Press ▲ / ▼ to select Intel<sup>®</sup> WiDi and press OK.

  A prompt will appear on the screen. Select Yes.
- Launch the Intel® WiDi software on your PC and select "scan for available adaptors".

Select the TV which you wish to connect to. "Connecting" will be shown on the TV.

# 4 Connecting your PC to your TV the first time

When selecting the Toshiba TV for the first time, a 4-digit or 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.

After the Intel® WiDi connection is complete, the TV screen will mirror the content shown on the PC screen.

### NOTE:

- When connecting Intel<sup>®</sup> WiDi, PC must have power turned on.
- When the Intel<sup>®</sup> WiDi software is active, and the Connection Type is set to Wireless, other applications may not be usable.
- Intel<sup>®</sup> WiDi device name of the TV can be changed from the Intel<sup>®</sup> WiDi software.

#### To exit Intel® WiDi:

Exit Intel<sup>®</sup> WiDi by pushing the disconnect button on Intel<sup>®</sup> WiDi software or by pressing **EXIT** on the TV remote control.

**NOTE:** If the PC has been inactive for some time, the Intel<sup>®</sup> WiDi connection will be disconnected automatically.

# Intel® WiDi Device Name

The TV's Intel® WiDi device name can be changed.

- In the Network menu, press ▲ / ▼ to select Network Device Setup and press OK.
- Press ▲ / ▼ to select Intel® WiDi Setup and press
- Press ▲ / ▼ to select Intel<sup>®</sup> WiDi Device Name and press OK.
- Select Intel® WiDi Device Name and press OK.
  The Software Keyboard window will appear.
- Input the Intel<sup>®</sup> WiDi device name by using the software keyboard (see page 49). Press the GREEN button.
- 6 Highlight Done and press OK to save your setting.

# **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 run out of space, the least-recently-used MAC address will be deleted and the new MAC address added automatically.

In the Intel<sup>®</sup> WiDi 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 **RED** key in the List.

When doing so the following text can be seen "Do you want to unregister this device? Yes/No" (default cursor is "No").

# Using the Media Player

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

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

# Terminology:

DMP: Digital Media Player

DMS: Digital Media Server

DMR: Digital Media Renderer

DMC: Digital Media Controller

- DMP: The TV can control and play content from a DMS.
  - A DMS is a device that can function as a server for DMP or DMR.
- DMR: The TV can play content from a DMS. Playback is controlled by a DMC.
  - A DMC is a device that can instruct the TV to play content.

#### 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 50).

### **Media Player Specifications**

Device

USB device

Interface version: USB2.0 HS

USB Mass Storage Class devices (MSC)

### NOTE:

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

File system: FAT16 and FAT32

Maximum memory size: 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 Media Player with USB

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

# To change the Auto Start setting:

- Press → and ▲ / ▼ to highlight Options icon.
- Press ▶ and ▲ / ▼ to select Media Player Setup and press OK.
- Press ▲ / ▼ to select USB Auto Start and press OK.
- Press ▲ / ▼ to select On or Off.

#### **Auto Start**

- Insert a USB device into the USB port on the left side of the TV. A prompt will appear.
- Press ◀/▶ to select Yes and press OK.
- Press ▲ / ▼ to select Videos, Music or Photos and press OK.
- Press ▲▼◀▶ to select Devices and press OK.
- Press ▲ / ▼ to select a device and press OK.

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

#### **Manual Start**

- Insert a USB device into the USB port on the left side of the TV.
- Press and select My Music, My Videos, My Photos or My Contents icon and press OK.
- Press ▲▼◀▶ to select Devices and press OK.
- Press ▲ / ▼ to select a device 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:

- Press ▲▼◀▶ 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 move to the tab selection:

Press the BLUE button.

## To close the Media Player:

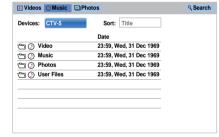
1 Press EXIT.

# Using the Media Player with a media server

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

- Press and select My Music, My Videos, My Photos or My Contents icon and press OK.
- Press ▲▼◀▶ to select **Device Name** icon and press **OK**.
- Press ▲ / ▼ to select a device and press **OK**.

#### **List of Contents**



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

### To select a file in the list of contents:

- Press ▲▼◀▶ 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.

- Press ▲▼◀▶ to highlight Sort and press OK.
- Press ▲ / ▼ to select File Name (Title), New or Old and press OK.

## To Search for content (if available):

- Press ▲▼◀▶ to highlight Search and press OK.
- Select the text box and press **OK**, the Software Keyboard window will appear (page 49). 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 ▲ / ▼ to select any of the following item.

Using with DLNA: **Device Information**Using with Wireless: **Wireless Information** 

#### To close the Media Player:

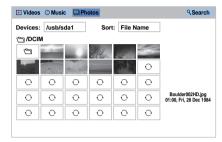
1 Press EXIT.

# 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.



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

Press ▲▼◀ ▶ to move the highlight in one window.

**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.

- 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:

- 1 Press QUICK to open the Quick Menu.
- Press ▲ / ▼ to select either Interval Time or Repeat.
- 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

NOTE: You can not rotate in 3D (2D to 3D) mode.

#### Selecting the Playback Mode:

You can view 3D photos in 3D and you can also view 2D photos in 3D.

Press 3D on the remote control while in Single View mode or Slide Show mode.

The mode switches between 2D Mode and 3D Mode each time 3D button is pressed.

2D Mode: All photos are displayed in 2D.

**3D Mode:** The photos are displayed in the 3D mode selected in the Playback Mode. For the Playback Mode, refer to the following:

## Setting the Playback Mode in Quick Menu:

- Press QUICK to open the Quick Menu.
- Press ▲ / ▼ to select Playback Mode.
- Press ▶ and ▲ / ▼ to select 3D Mode 1 or 3D Mode 2

**3D Mode 1:** 3D photos in the USB memory are displayed in 3D. 2D photos are displayed in 2D. Some 3D photos cannot be displayed in 3D.

**3D Mode 2:** All photos are displayed in 3D. 2D photos are converted and displayed in 2D to 3D, and 3D photos are displayed in 3D.

# 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.
- Press ▲ / ▼ to select a file name.

#### To close the Photo Viewer:

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

## File Compatibility

See page 94.

# 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)



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

#### NOTE:

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

#### NOTE:

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

# **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 ◄ to playback from the beginning of currently selected file. Press ► to locate subsequent files.
- 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 \(\infty\)\[\text{I}\] 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.

# Press BACK.

#### NOTE:

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

# Resume Play (USB only)

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 Media Player
  - Press I in the Videos List
- This function may not be available depending on the content.

# 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:

1 Press EXIT

#### File Compatibility

See page 94.

# To register your TV to a DivX® account:

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

- In the Media Player Setup menu, press ▲ / ▼ to select DivX<sup>®</sup> VOD and press OK.
- Press ▲ / ▼ to select DivX<sup>®</sup> VOD Registration and press OK.



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<sup>®</sup> 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<sup>®</sup> is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified<sup>®</sup> device that 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<sup>®</sup> 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<sup>®</sup> to play DivX<sup>®</sup> and DivX Plus<sup>®</sup> HD (H.264/ MKV) video up to HD 1080p, including premium content.

## To playback DivX Plus HD content:

- To play in fast reverse or fast forward directions, press
   ◄
   ✓
   Description
   Description
   Description
   To play in fast reverse or fast forward directions, press
   Each time you press the
   Each time you press the
- 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 ◄ to skip to the beginning of the current chapter. When ◄ is pressed twice in succession, it will skip to the beginning of the previous chapter. If ◄ 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 ▲ to skip to the beginning of the previous file.

Press ▼ 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  $\blacktriangle$  /  $\blacktriangledown$ .

Pressing ◀ / ▶ 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)



Press ▲▼◀ ▶ to select a file or folder. ☆ or خ buttons can be used to page up/down the **Music 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.
- 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:

- 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
   ✓ / ▶▶. Each time you press
   ✓ / ▶▶, the playback speed will change.

## To set the repeat mode:

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

- Press it 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:

1 Press EXIT

#### File Compatibility

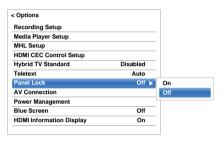
See page 94.

## Other features

#### Panel Lock

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

- Press **>** and ▲ / ▼ to highlight **Options** icon.
- Press ▶ and ▲ / ▼ to select Panel Lock and press OK.
- Press ▲ / ▼ to select 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 ▲ / ▼ to select Blue Screen.
- Press ▶ and ▲ / ▼ to select On or Off.

### **Netflix®**

# To confirm the Netflix ESN (Electronic Serial Number)

- In the Network menu, press ▲ / ▼ to select Smart Apps Setup and press OK.
- In Smart Apps Setup menu, select Netflix Setup and press OK.
- Press ▲ / ▼ to select ESN and press OK. Netflix ESN screen will appear.

#### To deactivate your TV

- In the Network menu, press ▲ / ▼ to select Smart Apps Setup and press OK.
- In Smart Apps Setup menu, select Netflix Setup and press OK.
- Press ▲ / ▼ to select **Deactivation** and press **OK**.
- Press ◀/▶ to select Yes and press OK.

# The timers

# Programme Timers - digital only

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

- Press GUIDE and then press the BLUE button on the remote control
- Press ▼ if necessary to select an open timer position, then press OK. The Edit Timer menu will now appear on screen.
- Press ▲ / ▼ to go through the list adding the details of the programme by using the number buttons and ◀ / ▶ to make selections.

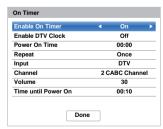


When all of the details have been entered, highlight Set Timer and press OK to save the timer.

#### 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.

- Press → and ▲ / ▼ to highlight Timers icon.
- Press ▶ and ▲ / ▼ to select **On Timer** and press **OK**.
- Press ▲ / ▼ to select Enable On Timer and press ◀ / ▶ to select On.



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

Press ▲ / ▼ to go through the list adding the details of the On Timer by using the number buttons and ◀ / ▶ 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

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).

6 Press ▲ / ▼ 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 ▲ / ▼ to highlight Done and press OK.

# **Sleep Timer**

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

- Press → and ▲ / ▼ to highlight Timers icon.
- Press ▶ and ▲ / ▼ to highlight Sleep Timer and press OK.
- 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)
- 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 4 hours, if you do not operate the TV either from the remote control or the TV control panel.

- Press → and ▲ / ▼ to highlight Options icon.
- Press ▶ and ▲ / ▼ to select Power Management and press OK.
- Press ▲ / ▼ to select Automatic Power Down.
- Press ▶ and ▲ / ▼ to select On or Off and press OK.

#### NOTE:

- This feature is set to On when Location is set to Home.
- 1 minute before switching to Standby, a Warning message will appear.
- When the following features are set, the feature that is set for the nearest time will function.
  - Automatic Power Down
  - Sleep Timer
  - 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 (i+), the information screen will appear giving details of the channel and programme currently being viewed.

#### **Display Example**





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.



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

### **On-screen Information icons**

	Icon	Description
Service info		Service type (TV, Radio, Text)
	<b>-</b> ◆	Skip
Audio info	0	Mono
	8	Stereo
	•0	Dual mono
	8	Multichannel
	ΙΙD	Dolby Digital
	<b>™</b> D+	Dolby Digital+
	ΜP	When HE-AAC is decoded
	AD	Audio Description
Audio/Subtitle info	Ú	For Hard of Hearing
Recording info	●REC	Recording + Service info
3D info	$\begin{array}{c} \text{3D} \\ \text{3D} \rightarrow \text{2D} \end{array}$	
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
		Teletext
		Subtitle (Single, Multi)
	<b>D</b> A	Audio track (Mono, Multi)
	0, 4 – 18	Parental rating
	W	Encrypted
Timer info	4	Recording
	✓	Reminder

# 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.



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.
- 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 Programme Timers menu.

#### **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.



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

# Digital settings – parental control

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

# **Parental PIN Setup**

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



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



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**

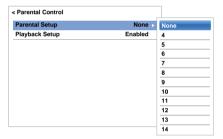
The Parental Control feature allows you to block programmes according to their rating levels. If a PIN has been set, you will need to enter it before adjusting the

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

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

Playback Setup: Select when you want to set viewing restrictions on playback of programmes recorded to the USB HDD.

Press ▲ / ▼ to select an option.



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 / ◀ ▶ 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**.
- 4 Press ▶ to highlight the favourite (☆) box.
- 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**

Press LIST to display Channel List.

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

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



Press ▲ / ▼ 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.
- Press ► repeatedly to highlight the skip (♠) box.
- Press **OK** to select. A tick will appear in the box.
- Repeat steps 1 through 4 for other channels.
- 6 Press EXIT.

NOTE: Skipped channels cannot be selected by P✓ or P△ but still be accessed by direct number entry (when tuned a 🍑 icon will be displayed in the banner to indicate as a skipped channel).

# Locking channels

Locking Channels stops the viewing of digital channels, and they can only be accessed by entering the PIN.

- Select the channel you want to lock in your channel list.
- In the Quick Menu, press ▼ to select Channel Options and press OK.
- Press ▶ repeatedly to highlight the lock (♠) 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.

- 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.

- In the DTV Settings menu, press ▲ / ▼ 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.

# **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  $\bigcap_{i=1}^{\infty} J/I$  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 → and ▲ / ▼ to highlight Installation icon.
- Press ▶ and ▲ / ▼ to select DTV Settings and press OK.
- Press ▲ / ▼ to select Common Interface and press OK.
- 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.
- CI+ operation is not guaranteed except for Canal Ready DTT services on suffix FC models.

# Software Upgrade and Licences

### Searching for New Software

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

- In the **Get Help** menu, press ▲ / ▼ to select **Software Upgrade** and press **OK**.
- Press ▲ / ▼ to select Over-the-air Upgrade and press OK.
- Press ▶ and ▲ / ▼ to select Search for New Software and press OK. The television will automatically start searching for a software upgrade, the progress bar will move along the line.



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

**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.

- In the Get Help menu, press ▲ / ▼ 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.

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**.

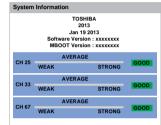
A screen will appear displaying all the licensing information required for the televisions software.

# System Information and Reset TV

# **System Information**

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

- In the **Get Help** menu, press ▲ / ▼ to select System Information.
- Press **OK** to display the **System Information**.



- For information about the signal quality of a particular multiplex, press ▲ / ▼ to select that multiplex.
- Press **OK** for a screen showing detailed technical information about the selected multiplex.

#### 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.
- 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 15.)

# **PC Settings**

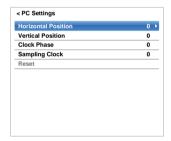
## **Horizontal and Vertical Position**

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 → and ▲ / ▼ to highlight Picture icon.
- Press ▶ and ▲ / ▼ to select **Display Settings** and press **OK**.
- Press ▲ / ▼ to select PC Setting and press OK.



Press ▲ / ▼ to select an option and press ◀ / ▶ to adjust the settings.



#### 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 ▲ / ▼ to select Clock Phase.
- 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.

- In the Display Settings menu, press ▲ / ▼ to select PC Settings and press OK.
- Press ▲ / ▼ to select Sampling Clock.
- Press ◀/▶ 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

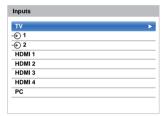
• until the picture from connected equipment is shown.

# Input selection

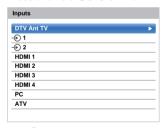
Use the Input Selection window if the television does not switch over automatically.

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

Press 10 on the remote control



Press and hold ₱/ � on the TV



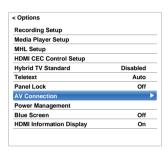
HDMI<sup>®</sup> displays equipment connected to *Input HDMI* on the back or side of the television.

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

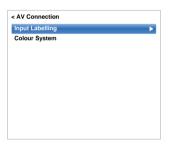
# Labelling video input sources

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

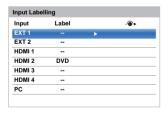
- Press → and ▲ / ▼ to highlight Options icon.
- Press ▲ / ▼ to select AV Connection and press



Press ▼ to highlight Input Labelling and press OK.



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



Bepeat 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.



2

Press ▲ / ▼ to select an option.

#### **Audio Format**

Press **◄**/▶ to select **PCM** or **Auto**.

**PCM:** This mode outputs PCM format to the digital

audio output socket.

Auto: This mode outputs Dolby Digital (if available) or PCM to the digital audio output socket.

Dolby Digital → Dolby Digital
Dolby Digital Plus → Dolby Digital
MPEG → PCM

HE-AAC → Dolby Digital

#### **Audio Delay**

Press 
√ ► to select Auto or Manual.

**Auto:** This mode automatically adjusts the audio timing to meet the video timing.

NOTE: The time lag might be large between the image and sound depending on the connected equipment (amplifier etc.). In that case, select Manual.

Manual: You can manually adjust the audio signal timing to meet the video signal timing.

#### **Delay Adjustment**

Press  $\blacktriangleleft/\blacktriangleright$  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)

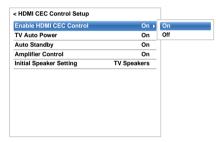
# **Using HDMI CEC Control**

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 pres OK.
- Press ▼ to select Enable HDMI CEC Control and press ◀/▶ to select On.



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 ▶ and ▲ / ▼ to select On or Off.

# **Auto Standby**

When Auto Standby is enabled, the television, when switched off, will automatically switch off (Standby) all connected HDMI CEC Control equipment.

- In the HDMI CEC Control Setup menu, press ▼ to highlight Auto Standby.
- Press ▶ and ▲ / ▼ to select On or Off.

# **Amplifier Control**

When Amplifier Control is set to on/off the connected HDMI CEC Control amplifier.

- In the HDMI CEC Control Setup menu, press ▼ to select Amplifier Control.
- Press ▶ and ▲ / ▼ to select On or Off.

### **Initial Speaker Setting**

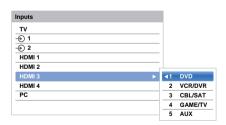
The Initial Speaker Setting allows to select TV speakers or Amplifier speakers.

- In the HDMI CEC Control Setup menu, press ▼ to select Initial Speaker Setting.
- Press ▶ and ▲ / ▼ to select TV Speakers or Amplifier.

# HDMI CEC Control input source selection

If an HDMI CEC Control device with HDMI switching capability (e.g. AV amplifier) is connected to the HDMI input, you can select another HDMI CEC Control device that is connected to the master HDMI device on the input source list.

- Press ② and a list will appear on screen showing available input sources.
- Press ▼ to select the input source that the HDMI CEC Control devices are connected.
- Press ▶ and a second selection screen will appear showing all connected HDMI CEC Control equipment.



Press ▲ / ▼ to select the desired input source, and then press **OK**.

#### NOTE:

- 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 may automatically turn on.
- If the HDMI cable from connected equipment is changed, Enable in the HDMI CEC Control Setup menu may need to be reset to On.
- 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 menu from Off to On

### **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 85).

#### 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.

# **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 85).

**NOTE:** This feature depends on the connected equipment and television state.

# **Using MHL TV function**

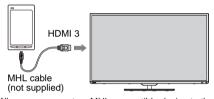
You can use the following functions by connecting between the TV HDMI 3 port and a USB port of mobile phones etc. with an MHL cable.

- · 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 ▲▼◀ ▶ and press **OK**. To play a video, press ▶ (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.
- Press **◄**/▶ to select **On** or **Off** and press **OK**.

# Text services

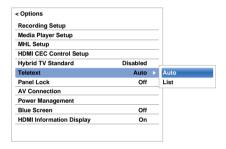
This television has a multi-page text memory, which takes a few moments to load. It offers two *Modes* of viewing text – **Auto** will display **Fastext**, if available. **List** will save your four favourite pages.

### Selecting modes

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



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



#### 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  $P^{\bullet}$  to advance to the next page and  $P^{\bullet}$  to go back to the previous page.

#### Sub-pages

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

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

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

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

# **Navigating pages using Auto**

If Fastext is available, four coloured titles will appear at the base of the screen.

To access one of the four given subjects, press the relevant coloured button on the remote control.

For further information on your particular text system(s), see the broadcast text index page or consult your local Toshiba dealer.

# **Navigating pages using LIST**

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

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

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

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

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

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

#### **Control buttons**

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

### **i** To display the index/initial page:

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

#### **TEXT To display a page of text:**

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

#### ■? To reveal concealed text:

To discover the solutions on quiz and joke pages press the  $\boxed{\equiv?}$  button.

#### **■¥** To hold a wanted page:

At times it is convenient to hold a page of text. Press  $\equiv 3$  and  $\equiv 3$  will appear in the top left of the screen. The page will be held on screen until the button is pressed again.

#### To enlarge the text display size:

Press (= 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.

# ②/≡X To temporarily erase the text screen:

Press (()/(EX) 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 OI/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 <b>external</b> 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 <b>Auto</b> 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 > Auto PAL				
		SECAM NTSC 4.43 NTSC 3.58				
ē		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. <b>Manual Fine Tuning</b> may help.				
		Select the ATV Manual Tuning menu. Highlight the station and press OK. Then press ▶ to select Manual Fine Tuning.				
		Using ▲ / ▼ adjust to get the best picture and sound. Press <b>OK</b> and then press <b>EXIT</b> .				
		ATV Manual Tuning Manual Fine Tuning				
		1   1   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 <b>Sampling Clock</b> may need adjustment. Select <b>PC Settings</b> from the <b>Display Settings</b> menu, highlight <b>Sampling Clock</b> and adjust until the lines clear.				

	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 <b>Colour System</b> from the <b>Options</b> menu.
•		Set the Colour to <b>Auto</b> and exit.
		Go to the <b>Picture</b> 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 <b>Channel Options</b> (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 <b>Parental PIN Setup</b> from the <b>DTV Settings</b> 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 <i>User Guide</i> . 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 Hami (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.

	Question	Answer				
	Why don't the networked devices work?	The LAN cables are not connected properly or at all. Connect all cables (see page 12).  Make sure your network address is set up correctly (see page 47).				
	Why doesn't the wireless network work?	Check that the AP is powered on.				
	Why doesn't the Media Player feature operate?	Make sure that devices are connected correctly. Incorrect behaviour may occur with a USB Hub connection. Check your network setup if using a network media server.				
	Why are not 3D images displayed?	Ensure that there is no object blocking the infrared signals in the infrared reception part of television and 3D glasses. If the infrared data communication between the television and 3D glasses is lost for 5 minutes, the power of 3D glasses is turned off.				
	Why doesn't the USB HDD work?	Your country/area may not support the USB HDD function.				
-E	Why isn't Skype launched?	Check that the recommended video camera (page 59) is connected to the TV. Ensure the network cable connection (page 12). Check the Network setting of TV. Turn off the TV and unplug the power cord. After 1 minute, plug the power cord in and turn on the TV.				
General	Why can't the Skype account be signed in?	If you have no Skype Name, create a Skype Name in <b>Create an account</b> . If you forgot password, visit <a href="www.skype.com">www.skype.com</a> and confirm the password.				
	What do the LEDs on the front of the television indicate?	Check the table below.				
		LED indication Condition				
		Green Power ON				
		Red Power OFF (Standby or Active Standby)				
	Remote sensor  Power LED On = Green Standby = Red					

# 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.

# 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

<sup>\*</sup> 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	•
		72.809 Hz	37.861 kHz	31.500 MHz	•
		75.000 Hz	37.500 kHz	31.500 MHz	•
SVGA	800 × 600	56.250 Hz	35.156 kHz	36.000 MHz	•
		60.317 Hz	37.879 kHz	40.000 MHz	•
		72.188 Hz	48.077 kHz	50.000 MHz	•
		75.000 Hz	46.875 kHz	49.500 MHz	•
XGA	1024 × 768	60.004 Hz	48.363 kHz	65.000 MHz	•
		70.069 Hz	56.476 kHz	75.000 MHz	•
		75.029 Hz	60.023 kHz	78.750 MHz	•
WXGA	1280 × 768	59.995 Hz	47.396 kHz	68.250 MHz	•
		59.870 Hz	47.776 kHz	79.500 MHz	•
		74.893 Hz	60.289 kHz	102.250 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	•
		75.025 Hz	79.976 kHz	135.000 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 x 720p	59.940/60.000 Hz	44.955/45.000 kHz	74.176/74.250 MHz	
720p	1280 x 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 x 1080p	24.000 Hz	27.000 kHz	74.250 MHz	
1080p	1920 x 1080p	29.970/30.000 Hz	33.720/33.750 kHz	74.176/74.250 MHz	
1080p	1920 x 1080p	25.000 Hz	28.130 kHz	74.250 MHz	
VGA	640 × 480	59.940/60.000 Hz	31.469/31.500 kHz	25.175/25.200 MHz	•
		72.809 Hz	37.861 kHz	31.500 MHz	•
		75.000 Hz	37.500 kHz	31.500 MHz	•
SVGA	800 × 600	56.250 Hz	35.156 kHz	36.000 MHz	•
		60.317 Hz	37.879 kHz	40.000 MHz	•
		72.188 Hz	48.077 kHz	50.000 MHz	•
		75.000 Hz	46.875 kHz	49.500 MHz	•
XGA	1024 × 768	60.004 Hz	48.363 kHz	65.000 MHz	•
		70.069 Hz	56.476 kHz	75.000 MHz	•
		75.029 Hz	60.023 kHz	78.750 MHz	•
WXGA	1280 × 768	59.995 Hz	47.396 kHz	68.250 MHz	•
		59.870 Hz	47.776 kHz	79.500 MHz	•
		74.893 Hz	60.289 kHz	102.250 MHz	•
	1360 × 768	60.015 Hz	47.712 kHz	85.500 MHz	•
SXGA	1280 × 1024	60.020 Hz	63.981 kHz	108.000 MHz	•
		75.025 Hz	79.976 kHz	135.000 MHz	•

# Media Player Supported Format

Media	Media Format	File Extension	Video codec	Audio codec	USB	Network	Note
Player Photo	JPEG	.jpg .jpeg	JPEG	-	yes	yes	USB Data compatibility: JPEG Exif ver 2.2 Maximum viewable resolution:
							•JPEG 15360 × 8640 (Base- line)
	MPO	.mpo	МРО	-	yes	no	1024 x 768 (Progressive) •BMP 9600 x 6400 Maximum number of files: 1000 / folder
	ВМР	.bmp	ВМР	-	yes	no	Network Data compatibility: JPEG Exif ver 2.2 Maximum viewable resolution: 4096 × 4096 Maximum number of files: 1000/folder
							<b>NOTE:</b> 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 <b>Network</b>
	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 x 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	<b>NOTE:</b> Some files may not be played.

Media Player	Media Format	File Extension	Video codec	Audio codec	USB	Network	Note
Movie	MOV	MPEG-4 part2 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	yes	no	
		<u> </u>	H.264 (MPEG-4 AVC)	MPEG-2/4 LC-AAC	yes	yes	1
	ASF	.asf .wmv	VC-1 (WMV9)	WMA7/8/9 Std 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	yes	no	
	Video (FLV1) H.264 (MPEG-4 AVC) MPEG-2/4 LC L-PCM ADPCM		(FLV1)	-	yes	no	
			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	-	MPEG-2/4 LC-AAC	yes	yes	Maximum number of files: 1000 / folder
	WMA	.wma		WMA7/8/ Std	yes	no	Maximum music size:
				WMA9 Std	yes	yes	Unlimited
				WMA9 Pro	yes	no	Network Sampling rate: 32,
	WAV	.wav	-	LPCM ADPCM MPEG-1/2 Layer-3 WMA7/8/9/ Std WMA9 Pro	yes	no	Sampling rate: 32, 44.1 and 48 KHz Bit rate: 32 to 320 kbps Maximum number of files: 1000 / folder
	LPCM		-		no	yes	Maximum music size: Unlimited
							<b>NOTE:</b> Some files may not be played.

# 3D Support Format (HDMI)

Resolution	Aspect ratio	V.Frequency	H.Frequency	Pixel Clock Frequency	3D Structure
720 × 480p	16:9	59.940/60.000 Hz	31.469/31.500 kHz	54.000/54.054 MHz	Side by Side (Full)
				27.000/27.027 MHz	Side by Side (Half)
					Top and Bottom
720 × 576p	16:9	50.000 Hz	31.250 kHz	27.000 MHz	Side by Side (Full)
					Side by Side (Half)
					Top and Bottom
1280 x 720p	16:9	59.940/60.000 Hz	90.0/89.91 kHz	148.352/148.500 MHz	Frame Packing
			44.955/45.000 kHz	74.176/74.250 MHz	Side by Side (Half)
					Top and Bottom
	· ·	50.000 Hz	75.000 kHz	148.500 MHz	Frame Packing
			37.500 kHz	74.250 MHz	Side by Side (Half)
					Top and Bottom
1920 × 1080i	16:9	59.940/60.000 Hz	33.716/33.750 kHz	74.176/74.250 MHz	Side by Side (Half)
					Top and Bottom
	,	50.000 Hz	28.130 kHz	74.250 MHz	Side by Side (Half)
					Top and Bottom
1920 × 1080p	16:9	23.976/24.000 Hz	53.940/54.000 kHz	148.352/148.500 MHz	Frame Packing
			26.973 kHz	74.176/74.250 MHz	Side by Side (Half)
					Top and Bottom
	,	29.970/30.000 Hz	67.433/67.500 kHz	148.352/148.500 MHz	Frame Packing
			33.716/33.750 kHz	74.176/74.250 MHz	Side by Side (Half)
					Top and Bottom
		50.000 Hz	56.250 kHz	148.500 MHz	Side by Side (Half)
					Top and Bottom
		59.940/60.000 Hz	67.433/67.500 kHz	148.352/148.500 MHz	Side by Side (Half)
					Top and Bottom

# 3D Support Format (DTV)

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

- \* Side by Side (Full) is composed of left and right stereoscopic pictures that each size is equal to 2D.
- \* The 3D function and 2D to 3D conversion function does not support all content depending on its input source format.

Side by Side (Full)		l		R	
	2D Video	3D Vide	eo		
Side by Side (Half)		L	R		
	2D Video	3D Vide	90		

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http://tesc.toshiba.co.uk/Web/Website.nsf/ ContentFrameSet?OpenFrameset

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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 contact your local city office or the shop where you purchased the product.

#### Disposal of batteries and/or accumulators

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

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/ or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol. By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

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





# Cautions and other information for 3D

### Important information for 3D viewing

#### Available 3D glasses:

Toshiba FPT-AG03

(L73\*5D/M83\*5D: 2pcs supplied, L73\*\*RK/L73\*\*RB: 1pcs supplied, L73\*3D/L73\*1D: Not supplied)

#### CAUTION

- This product contains a coin/button cell battery.
   Danger of explosion if battery is incorrectly replaced.
   Replace only with the same or equivalent type.
- The 3D function has been designed for private use and entertainment in your home environment.
   Please note that any commercial use of the 3D function could lead to copyright infringement of authors' rights. Toshiba asks you to respect the intellectual property rights of third parties.

#### About handling the 3D glasses

- Do not leave the 3D glasses or the accessories within the reach of small children.
- Inhaling or swallowing them may cause suffocation or lesions in the stomach wall.
- If swallowed, consult a doctor immediately.
- Do not repair, modify, or disassemble the 3D glasses by yourself.
  - Doing so may cause a fire or cause you to become indisposed while viewing 3D images. Contact the Toshiba Call Center for repair of your 3D classes.
- Do not expose the glasses to excessive heat such as sunshine, fire, or the like.

### About the 3D glasses

- Do not use the 3D glasses if they are not working properly or broken.
  - Continuing to use them in such a state may cause injury, eye strain, or indisposition.
  - Do not use the 3D glasses if they are broken or have any cracks.
- Do not stand or walk while wearing 3D glasses.
- You may lose your balance which could result in falls or other accidents.
- Do not wear the 3D glasses for any purpose other than viewing 3D programming.
  - 3D glasses do not function as sunglasses.
- Do not drop, exert pressure on, or step on the 3D glasses.
- Doing so may damage the glass section, which may result in injury.
- Exposing the 3D glasses to liquid or excessive heat may damage the liquid crystal shutter function.
- If your nose or temple turns red, or you feel pain or discomfort, stop using the 3D glasses.
  - Such symptoms as above may occur if you keep wearing them for a long time, which may also cause indisposition.
- Be careful not to pinch your fingers in the hinge of the 3D glasses.

#### Cautions on watching 3D images

- Some viewers may experience a seizure or blackout when exposed to certain flashing images or lights contained in certain 3D television pictures or video games.
  - Anyone who has had a seizure, loss of awareness, or other symptoms linked to an epileptic condition, or has a family history of epilepsy, should contact a health care provider before using the 3D function.
- Avoid use of the 3D function when under the influence of alcohol.
- If you are ill or feel ill, you should refrain from viewing 3D images, and consult your health care provider as may be appropriate.
- If you experience any of the following symptoms when viewing 3D video images, stop viewing and contact your health care provider:
  - Convulsions, eye or muscle twitching, loss of awareness, altered vision, involuntary movements, disorientation, eye strain, nausea/vomiting, dizziness, headaches.
- If you feel eye fatigue or other discomfort from viewing 3D video images, remove the 3D glasses and discontinue use until the condition is eliminated.
- Viewing in 3D may cause dizziness and/or disorientation for some viewers.
  - Therefore, to avoid injury do not place your TV near open stairwells, balconies, or wires.
- Also do not sit near objects that could be broken if accidentally hit.
- When viewing 3D images, always wear 3D glasses.
   Watching 3D images without 3D glasses may cause eye strain.
  - Use specified 3D glasses.
- When watching 3D images, do not wear 3D glasses at an angle and do not lie down.
  - If you watch while lying down or with the glasses tilted, the 3D effect is lost and it may cause eye strain.
- If 3D images often appear in double or if you cannot see the images in 3D, stop viewing.
  - Continuous viewing may cause eye strain.
- Due to the possible impact on vision development, viewers of 3D video images should be age 6 or above.
   Children and teenagers may be more susceptible to health issues associated with viewing in 3D and should be closely supervised to avoid prolonged viewing without rest.
- Watching TV while sitting too close to the screen for an extended period of time may cause eye strain.
   The ideal viewing distance should be at least three times the screen height.
- · Switching left and right images

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

#### If the 3D PIN number has been forgotten:

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

Notes on handling the 3D glasses' liquid crystal shutter lenses

- · Do not put excessive force on the lenses.
- Do not scratch the surface of the lenses with sharp objects.
- · Do not drop or bend the 3D glasses.

#### Notes on IR communication

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

#### Notes on watching the TV

- 3D effect and image quality may vary depending upon content quality and display device capability/ functionality/settings.
- If you use any device, such as a mobile phone or mobile wireless device, near the 3D glasses, the 3D glasses may not work correctly.
- Use the product in the following temperature range; otherwise, the quality of the 3D image or the reliability of the product cannot be guaranteed.
  - 3D glasses: 0 °C 40 °C (32 °F 104 °F)
  - TV: 0 °C 35 °C (32 °F 95 °F)

- If you use a fluorescent light, it may flicker depending on the frequency of the light. In this case, reduce the brightness of the fluorescent light, or use another light. (It is not recommended to watch the TV in a dark room, especially for children.)
- Wear the 3D glasses properly, otherwise you may not see the correct 3D image.
- When not viewing 3D images on this unit, take off the 3D glasses; otherwise, it may be difficult to see the display on other products such as PC, digital clock or calculator, etc.
- The 2D to 3D conversion function is activated and controlled by you according to your personal preferences.
- The 2D to 3D conversion function is meant for enjoyment of 2D home video, and other 2D content you create, in 3D according to your personal preferences.
- The 2D to 3D conversion function is not intended for use with pre-recorded 2D copyrighted content owned by a third-party unless the copyright owner has given direct or indirect permission, or unless applicable law permits such use.

#### About the connecting cable

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

# Specifications and accessories

Receiving systems
-------------------

DVB-T Broadcast systems/ channels		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,F 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 (L735\*/L736\*/M836\* series only) DVB-S/DVB-S2 Broadcast systems (L736\*/M836\* 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 <sub>B</sub> /C <sub>B</sub> , P <sub>R</sub> /C <sub>R</sub> Video (Y is shared)
		RCA jacks	Audio L + R (shared)
HDMI 1/2/3/4	Input	HDMI <sup>®</sup> compliant HDMI 3 is compa	HDCP compliant tible with MHL
PC	Input	Mini D-sub 15-pin Analogue	
Digital Audio ( (S/PDIF)	Output	Optical	
LAN port		RJ-45	
USB 1/USB 2	port	Media Player Interface version: USB class: Mass File system: FAT	Storage
Headphone so	ocket	3.5 mm stereo	
Stereo		A2, Nicam 2 carrier system	
Visible Screen	Size	40L/40M	102 cm
(approx.)		50L/50M	126 cm
		58L/58M	146 cm
Screen resolut	tion	40L/40M	1920 × 1080
(H x V pixels)		50L/50M	1920 × 1080
		58L/58M	1920 × 1080
Display		16:9	
Sound output (at 10 % disto	rtion)	Main:	10 W + 10 W

Power consumption (approx.)	40L/40M 50L/50M	119 W 154 W
(-117)	58L/58M	184 W
Standby power consumption (approx.)	0.3 W	
Energy Efficiency Class	40L/40M	A+
	50L/50M	A+
	58L/58M	A+
On-mode power consumption*	40L/40M	48.1 W
(approx.)	50L/50M	75.9 W
	58L/58M	88.0 W
Average annual energy	40L/40M	66.7 kWh/y
consumption**	50L/50M	105.3 kWh/y
(approx.)	58L/58M	122.1 kWh/y

<sup>\*</sup> Tested in accordance with IEC 62087-BD in default settings.

401 70+0

Dimensions (approx.)	40L73*6	61.0 cm (H) 92.2 cm (W) 18.0 cm (D)
	40L/40M (except 40L73*6)	60.0 cm (H) 92.2 cm (W) 18.2 cm (D)
	50L/50M	73.3 cm (H) 113.1 cm (W) 23.2 cm (D)
	58L/58M	85.1 cm (H) 130.6 cm (W) 33.4 cm (D)

(Height	dimension	includes	foot stand	١

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(approx.)	40L/3°6 40L/40M (except 40L73*6 50L/50M 58L/58M	11.5 kg 12.0 kg 3) 20.0 kg 28.0 kg		
Operating condition	Temperature 5 °C - 35 °C (41 °F - 94 °F Humidity 20 - 80 % (non-condensing)			

# WirelessStandard: IEEE 802.11a/b/g/nFrequency Range: 5.15-5.35 GHz,

5.47-5.725 GHz, 5.725-5.850 GHz, 2.400-2.4835 GHz
• Security: WEP64/128, TKIP, AES,

WPA/WPA2-PSK, WPS, None

# Supplied accessories • Toshiba 3D glasses : FPT-AG03 : L73\*5D/ M83\*5D (2pcs), L73\*\*RK/L73\*\*RB (1pcs) • Remote control CT-90430

2 batteries (AAA, IEC R03 1.5 V)
• Screw (for TV mounting) See page 5.

# Optional accessories

Minimi

- USB HDD: HDTC610EK3B1, HDTC610EL3B1, HDTC610EW3B1
  Skype camera: TALK-7291
- Toshiba 3D glasses : FPT-AG03

<sup>\*\*</sup> Operating 4 hours a day and 365 days a year.