TOSHIBA

Leading Innovation >>>



WL86* Digital Series YL86* Digital Series YL87* Digital Series

EUROPEAN UNION ECOLABEL



Awarded to goods or services which meet the environmental requirements of the EU ecolabelling scheme



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Safety Precautions

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

Air Circulation

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

Heat Damage

Damage may occur if the television is left in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity. Place in a location where the temperature remains between 5°C (41°F) min. and 35°C (94°F) max.

Mains Supply

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

DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. IF IN DOUBT, PLEASE CONSULT A COMPETENT ELECTRICIAN.

Do

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

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

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

WARNING: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. See page 6.

DO be careful with glass panels or doors on equipment.

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

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

Do not

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

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

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



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

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

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

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

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

ABOVE ALL - NEVER let anyone, especially children, push or hit the screen and cabinet back, or push anything into holes, slots or any other openings in the case. These actions will damage screen or internal parts.

NEVER connect the supplied COMPONENT Adaptor cable, AV-SCART Adaptor cable or AV Adaptor cable to a wall outlet. These cables are ONLY for insertion into the socket provided for the purpose on the rear/side of the TV.

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

Installation and important information

Where to install

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

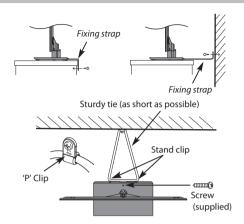
Place the TV on a stable, level surface that can support the weight of the TV. In order to prevent injury and maintain stability of this apparatus, secure the TV to the level surface using the strap if fitted, or to a wall using a sturdy tie to the P clips provided. Otherwise secure the TV on the level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

The LCD display panels are manufactured using an extremely high level of precision technology; however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

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

When using a Wall Bracket

For 46WL, 55WL, 46YL and 55YL series, always use the screws recommended by the wall mount manufacturer.



Stand style is dependent on model



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.
- · Do not disconnect the the power plug when the TV is active and the MHL device is being connected.
- Do not disconnect the the power plug when the TV is in standby mode and the MHL device is being connected.

Please take note

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

If stationary images generated by 4:3 broadcasts, text services, channel identification logos, computer displays, video games, on-screen menus, etc. are left on the television screen for any length of time, they could become conspicuous. It is always advisable to reduce both the brightness and contrast settings.

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

EXCLUSION CLAUSE

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

- i) Fire:
- ii) Earthquake;
- iii) Accidental damage:
- iv) Intentional misuse of the product;
- v) Use of the product in improper conditions:
- vi) Loss and/or damage caused to the product whilst in the possession of a third party;
- vii) Any damage or loss caused as a result of the owner's failure and/or neglect to follow the instructions set out in the owner's manual;
- viii) Any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

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

When Using a USB HDD (not supplied)

- 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 and register a USB HDD that has been used with a PC or another TV, all the data and recorded programmes stored on the disk will be deleted.
- To use a USB HDD that has been used with this TV on a PC, the hard disk must first be formatted with the PC. At this time, all the data stored using the TV will be deleted.
- Do not turn off the power supply to the USB HDD or disconnect the connecting cable while the USB HDD is operating.
 - Doing so may result in loss of the recorded data or malfunction of the USB HDD.
- If you connect a USB bus-powered device to the USB 1 port, it may interfere with recording on the USB HDD.
- · The recording function is not available in all countries.
- Please note that recording on the USB HDD is no longer playable after the TV's main-board is exchanged during service.

When using the 3D glasses

Available 3D glasses: Toshiba FPT-AG02G YL86 and YL87 series : Supplied WL86 series : Not supplied

 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 glasses.

 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.

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

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

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

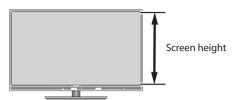
Continuous viewing may cause eye strain.

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

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

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

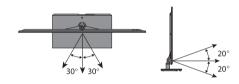
The ideal viewing distance should be at least three times the screen height.



Watch the TV within effective viewing angle.

Otherwise, you may not see the correct 3D image. Effective viewing angle:

- Within 30° horizontal, 20° vertical



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.

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.

About the lithium-ion polymer rechargeable battery

• Do not nail, hammer, or step on the battery.

Doing so may cause a short circuit, leading to overheating, cracking, or fire.

 Do not overheat, disassemble, or short-circuit the battery, or throw it into fire.

Doing so may cause cracking or fire.

 Do not connect the battery cord with metal items such as wires. Also, do not carry or store the battery with metal items such as necklaces or hairpins.

Doing so may cause a short circuit, leading to overheating, cracking, or fire.

If the 3D PIN number has been forgotten:

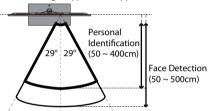
Use the Master PIN code of 1276, and then change to a number of your choice. Select **3D PIN Setup** from the **Preferences / 3D Setup** menu to enter PIN.

About the Camera Sensor

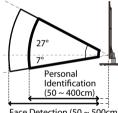
The camera sensor installed in this TV can detect a person's face or movement and identify individuals by their registered faces. Please note that certain factors can affect the performance of the sensor function as set out below.

General Sensor Function

- For the sensor to operate (for each function) you will need to be within the sensor detection range as set out below.
- The approximate effective detection range of the camera sensor is as shown below. (Note: The distance and angle of the detection range are based on a standard viewing environment and conditions).
 - Horizontal angle: approx. 58° (approx. 29° × 2)



- Vertical angle: approx. 34° (upward approx. 27°, downward approx. 7°)



- Face Detection (50 ~ 500cm)
- Distance: approx. 50 cm to 500 cm (Personal Identification Function: approx. 50 cm to 400 cm)
- · Do not place anything in front of the TV that may obstruct detection or reduce the sensor detection range.

Motion Detection Function

- · Motion detection may be affected by the surrounding environment, such as the brightness of the room. In addition, very slight, small or momentary movement may be undetected.
- Sensor performance can be enhanced by making sure the room is brightly lit and using prolonged and obvious
- Billowing curtains, a pet or variations in illumination in the detection range may be detected as motion, even if there is
- You can use the camera sensor confirmation menu to check that no movement made by other persons is being detected.

Face Detection Function

- The sensor can detect up to eight persons.
- · Face Detection may be affected if:
 - Your face is obstructed or partially hidden, for example, by your hair, a mask or a hat,
 - Your head is tilted or turned to one side, or
 - You are wearing dark glasses or the light is reflected in vour glasses.
- You can use the camera sensor confirmation menu to check whether your face is detected.
- The camera sensor may detect background images such as a picture portrait or the pattern on the wall as eyes or nose even if there is no person there. You can use the confirmation screen to check whether any such object in the detection range is being incorrectly detected as a face.
- Face Detection can be less effective on darker complexions and in darker environments.
- Face Detection can be enhanced by making sure your face is clearly visible and evenly lit. If the room is dark, Face Detection can be enhanced by making sure the room is brightly lit. If the lighting environment creates a shadow on your face, Face Detection can be enhanced by adjusting the lighting to prevent shadows.

Personal Identification Function

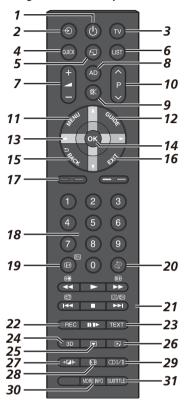
- The Personal Identification Function is part of the Face Detection Function. The factors affecting the Face Detection Function set out above also apply to the Personal Identification Function.
- · Personal Identification may in addition be affected by:
 - A different shadow pattern from that when your face was registered. Personal Identification accuracy can be enhanced by registering additional facial images under different conditions.
 - A different lighting environment from when your face was registered, such as during the day and at night. Personal Identification accuracy can be enhanced by registering your face under various lighting environments.
 - Whether or not you are wearing glasses. If you wear glasses, we recommend that you register your face both with and without glasses.
 - A different facial expression. Personal Identification accuracy can be enhanced by registering different facial expressions.
- · Personal Identification may be affected when faces have similar characteristics (e.g. brothers, sisters, twins).
- Personal Identification is less effective on the faces of young children.

Face Registration Function

- Up to four people can be registered under the Personal Identification Function. The same person cannot be registered twice.
- · A maximum of 10 different facial images per person can be registered. Personal identification accuracy can be enhanced by registering different facial images as set out above.
- It is advisable to register your face in your usual viewing position and with your natural facial expression. Registering your face too near to or too far from the screen may hinder identification performance.

The remote control

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



- 1 For On/Standby mode
- 2 To select external input sources
- 3 To select TV Mode
- 4 To access Ouick Menu
- 5 To access the "TOSHIBA PLACES" Top Page When network is not connected, an error message will be displayed.
- 6 To access the analogue or digital Channel List
- 7 To alter the TV volume
- 8 Switch the Audio Description On/Off
- 9 To mute the TV sound
- **10** To change programme positions To change TEXT pages
- 11 On-screen Menus
- 12 To display the digital on-screen Programme Guide
- 13 When using menus, the arrows move the cursor on the screen up, down, left or right
- 14 Press OK to confirm your selection
- 15 To return to previous Menu
- 16 To exit menus

- 17 Colour buttons: Text and interactive service control buttons
- 18 Number buttons
- 19 To display on-screen information To access the index page in Text mode
- 20 To return to previous programme position

21 When in TV mode:

②/(≣X) Analogue time display

When in Text mode:

(≣?)

To reveal concealed text

To hold a page

■ To enlarge text

display size

②/≅X To select a page
while viewing a
normal picture

When using Programme Guide:

-24 hours → +24 hours

→ +1 page

During Playback:

To PLAY
To STOP

➤ To PAUSE/STEP To start Time Shift Recording

To SKIP-BACK

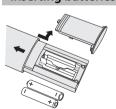
To REWIND

To FAST FORWARD

To SKIP-FORWARD

- 22 To record TV programmes
- 23 To call up text services
- 24 To switch between 2D and 3D mode
- 25 Picture still
- 26 To access Media Player Menu
- 27 Selectable Picture preferences
- 28 Widescreen viewing
- **29** ∭ Stereo/bilingual transmissions
- 30 To access More Information Menu
- **31** Digital Subtitles or Analogue TEXT Subtitle pages if available

Inserting batteries and effective range



Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the proper way. Suitable battery types for this remote are AAA, IFC R03.1 5V

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

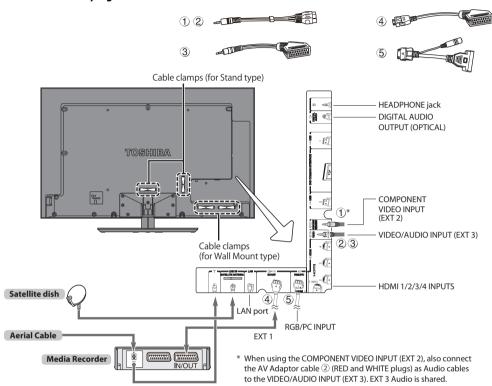
batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 103 of this manual.

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 television. If you use a decoder and/or a media recorder, it is essential that the aerial cable is connected through the decoder and/or through the media recorder to the television.

Satellite cable:



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



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

NOTE: This output is always active.

HDMI® (High-Definition Multimedia Interface) is for use with a DVD decoder or electrical equipment with digital audio and video output. For acceptable video or PC signal formats through the HDMI terminals, see page 105.

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

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

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

If the television automatically switches over to monitor external equipment, return to normal television by pressing the desired programme position button. To recall external equipment, press to select between DTV, EXT 1, EXT 2, EXT 3, HDMI 1, HDMI 2, HDMI 3, HDMI 4, PC or ATV.

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

Connecting an HDMI® or DVI device to the HDMI input

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

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) programme material in digital form from EIA/CEA-861-D-compliant consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output). For acceptable video signal formats, see page 105.

NOTE:

- Some early HDMI equipment may not work properly with your latest HDMI TV, due to the adoption of a new standard. Please unplug your HDMI cable first and then try setting the INSTAPORT™ and Enable Content Type options to "Off".
 Your early HDMI source should operate properly with your television. See page 90.
- Supported Audio format: Linear PCM, Dolby Digital (AC-3), sampling rate 32/44.1/48kHz.

To connect an HDMI device

Connect an HDMI cable (type A connector) to the HDMI terminal.

For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (**HDMI**).

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly with this model.
- HDMI cable transfers both video and audio. Separate analogue audio cables are not required (see illustration).
- See "HDMI 3 Audio" section on page 90.

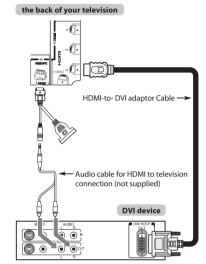
HDMI device HDMI device | Compared to the part of th

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

To connect a DVI device

Connect an HDMI-to-DVI adaptor cable (HDMI type A connector) to the HDMI 3 terminal and audio cables to the PC/HDMI 3 (AUDIO) socket (see illustration).

- The recommended HDMI-to-DVI adaptor cable length is 6.6 ft (2m).
- An HDMI-to-DVI adaptor cable transfers video only.
 Separate analogue audio cables are required.
- See "HDMI 3 Audio" section on page 90.



NOTE:

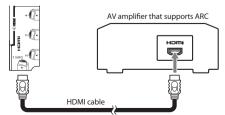
To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

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

HDMI's ARC (Audio Return Channel) feature

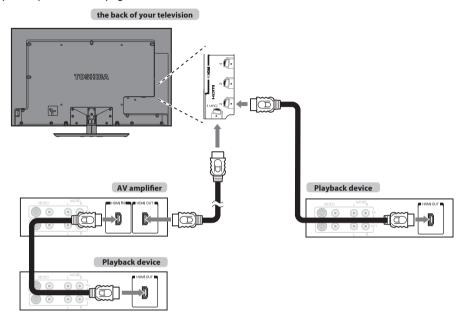
This feature enables the audio signal of the TV to be sent to the AV amplifier via the HDMI cable. It will not be necessary to connect a cable from the audio output of the TV to the audio input of the AV amplifier to reproduce the audio received from the tuner of the TV through the AV amplifier.

the back of your television



REGZA-LINK connection

You can control the basic functions of connected audio/video devices using the television's remote control if you connect a REGZA-LINK compatible AV amplifier or playback device. For an explanation of setup and operations, see pages 93–95.



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

NOTE

- If several devices are connected, the REGZA-LINK 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):

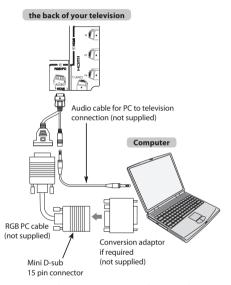
- After completing the above connections, set the REGZA-LINK Setup menu as you desire (see page 93).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK feature uses CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to individual instruction manuals for compatibility information.

Connecting a computer

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

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 and a PC audio cable for the PC/HDMI 3 (AUDIO) socket. Select PC from the PC/HDMI 3 Audio options in the AV Connection menu located in the Preferences menu.



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 104.

To display the optimum picture, use the PC setting feature (see page 87).

NOTE:

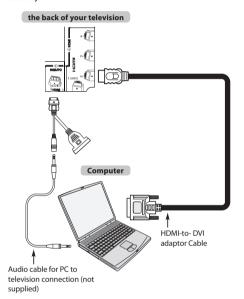
- The PC audio input terminal on the television is shared with the HDMI 3 analogue audio input terminal (see page 90).
- Some PC models cannot be connected to this television.
- An adaptor is not needed for computers with a compatible mini D-sub15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.
- A band may appear at the edges of the screen or parts of the picture may be obscured. This is due to scaling of the picture by the set, it is not a malfunction.

- When PC input mode is selected, some of the television's features will be unavailable e.g. Colour System in the Setup/System Setup menu.
- Some PC models may output unique signals that the television may be unable to detect (see page 104).
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

To connect a PC to the HDMI terminal

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

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). A separate analogue cable is not necessary.



For acceptable PC and video signal formats, see page 105.

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.

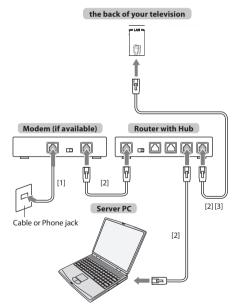
Connecting a home network

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 DLNA CERTIFIED™ 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 DLNA CERTIFIED™ products in private network environments.
- 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 52.
- If you use a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.
- If you connect the TV and PC directly, use a crossover LAN cable.

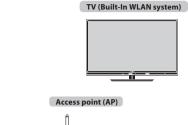
To connect the TV to a home network - Wired

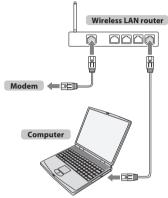


- [1] Coaxial or telephone cable (depending on your modem type)
- [2] Standard LAN cable
- [3] Do NOT connect a phone jack directly to the TV's LAN port.

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

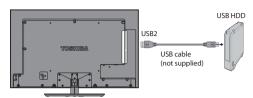
Please refer to "Wireless Setup" section on page 49.





Setting up the USB HDD

To connect an USB HDD (not supplied)



NOTE: For available USB HDD information, see "Product Information" on the website.

To register an USB HDD

When you connect a new USB HDD to the USB 2 port on the TV, the following screen will appear.

An unregistered USB HDD has been detected.
Register the USB HDD?

✓ Yes ▶

Press ◀or ▶ to select **Yes** and press **OK**.

The formatting confirmation window will appear.

Press ◀or ▶ to select **Yes** and press **OK**.

Registration will start.

If you want to name the USB HDD, press ◀ or ▶ to select **Yes** and press **OK**.

See page 53 to input characters.

The maximum number of characters is 10.

If you prefer the default name "USB HDD X," select **No** and press **OK**.

The Device List will appear.

Device List		
Device Name	Registered	Connected
USB HDD 1	✓	
USB HDD 2	✓	
USB HDD 3	~	~
l .		

You can now use registered USB HDDs.

While in the list mode, the following key operations are available:

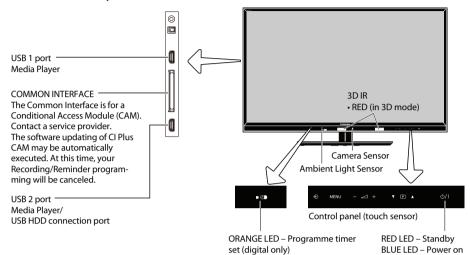
OK button.......To register/remove
RED buttonTo disconnect
GREEN buttonTo change Device Name
YELLOW buttonTo test
BLUE button.......To format

NOTE:

- To disconnect a USB HDD from the TV, follow the procedures for "To disconnect a USB HDD" section (page 62).
- When using a USB HDD, if necessary, perform the settings and operations shown in "Using the USB HDD Function" section (see page 55).
- Connect the USB HDD to the USB 2 port.
 Recording and playback cannot be performed if connected to the USB 1 port.
- Up to 8 USB HDDs can be registered to this TV.
- 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.
- If an HDD is re-registered, it will not be formatted.
- When the USB HDD is formatted, all the data stored on the HDD will be deleted.

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 BLUE LED will be lit.

To put the television into Standby, press Θ on the remote control. To view the television, press Θ again. The picture may take a few seconds to appear.

For energy saving:

We recommend that you use the television with the factory settings. The factory settings are for energy saving. Unplugging the mains plug will cut energy use to zero for all televisions. This is recommended when the television is not being used for a long time, e.g. when on holiday. Reducing the brightness of the screen will reduce energy use. Energy efficiency cuts energy consumption and thus saves money by reducing electricity bills.

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

Using the menu system

Press **MENU** on the remote control to display the menu.

The five initial topics icons will appear. As each symbol is selected by pressing ◀ or ▶ on the remote control.

Press ▲▼ ◀▶ to enter a sub menu and then enter a further sub menu to see any options.

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

To use the option, press ▲ and ▼ on the remote control to move up and down and press ◀ or ▶ to select your desired setting. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

Using the TV controls and connections

To alter the volume gently touch – \triangle +.

To alter the programme position touch $\nabla \mathbf{P} \Delta$.

Touch **MENU** and $\nabla \mathbf{P} \mathbf{A}$, $- \mathbf{\Delta} +$ to control the sound and picture options.

Touch **MENU** to finish.

RED LED – Programme timer Active (digital only)

To select an external input, touch ullet until the appropriate input source is selected.

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.

The USB 2 port has to be used with a USB HDD (not supplied) in order to record/playback TV programmes.

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

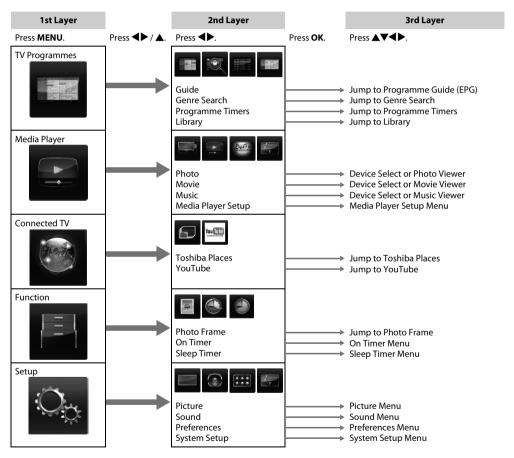
Please always refer to the owner's manual of the equipment to be connected for full details.

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

MENU structure

To open the main menu (illustration below), press **MENU** on the remote control or on the TV control panel.





Startup Application

Before switching on the television, set your decoder and media recorder, if applicable, to **Standby**. To set up the television, use the buttons on the remote control as detailed on page 11.

Quick Setup

- Press the **(b)** button. The **Menu Language** screen will appear. This screen will appear the first time that the television is switched on and each time **Reset TV** is selected.
- Press ▲▼◀▶ to select the menu language and press **OK**.
- Highlight Country and press

 or

 to select. The television is now set to tune the stations for your country.



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 **OK**, and the **Location** screen will appear.



- Press ◀or ▶ to select **Home** or **Store**. For normal home use, select **Home**.
- Press OK, and the TV Mounting screen will appear, press ◀or ► to select Stand or Wall.

TV Mounting
If you are mounting the TV on a wall please select [Wall].
[Stand] is recommended for other uses.
This setting may be modified later under Sound Navi in the Sound menu.

Stand

Press **OK**, and the **AutoView** screen will appear. Press

✓ or ➤ to select **Yes** or **No**.



Press **OK**. If the **Ant/Cable/Satellite** screen appears, press ▲ or ▼ to select **Antenna**, **Cable** or **Satellite** and 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 steps 9 to 12.
- When you select **Satellite**, skip to step 13.
- 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.
- Select Next and press OK. The Auto Tuning start up screen will appear with the option to select between DTV and ATV, DTV or ATV if available. Use ◀ or ▶ to select the appropriate mode.
- Press ▲ or ▼ 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 position one.

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

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

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

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

REMEMBER: Press **TV** at any time to select between **ATV** and **DTV** (DTV Ant TV/Radio/Text, DTV Cable TV/Radio/Text, DTV Sat TV/Radio/Text if available) 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. See "Satellite Settings" on page 22.

Satellite S	Satellite Settings				
Switch Type		No	ne		
LNB Pow		0	n		
No.	Satellite	Dish	LNB		
1	ASTRA 19.2°E	1	1		
2					
3					
4					
Dish Type : Lower LOF (MHz) : 9600 MHz) : 10600	one and			

Highlight Done and press OK.

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

Satellite : ASTRA	<u> </u>	10742 MU- U\
Transponder	1/83 (1	0743 MHz H)
Go to 0		
Go to Stored Po	sition	
Step Size		
Positioning	∢W	E⊁
_	Store Position	_

Press ▲ or ▼ to highlight **Positioning** and press ◀ or ► to find the dish position with the strongest signal level.

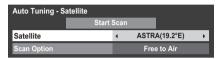
Press \triangle or ∇ to highlight **Store Position** and press **OK** to store the dish position. Repeat steps 13 and 14 for the next satellite as necessary.

If your satellite dish is not movable, the **Positioning** screen will not appear.

Adjust the dish position manually for the maximum Signal Level strength.

Highlight Done and press OK.

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



You can select Scan Option from Free to Air and All.

Press ▲ or ▼ 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.

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

PLEASE NOTE

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

Ant/Cable/Satellite (if available)

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

- Press **MENU** / **♦** to highlight **Setup** icon.
- Press ▲/◀▶ to highlight System Setup icon.
- Press **OK** to display **System Setup** menu.
- Press ▲ or ▼ to select Ant/Cable/Satellite and press ◀ or ▶ to select Antenna, Cable or Satellite.

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 \triangle or ∇ to select an item and press \triangleleft or \triangleright to select your desired option.

Auto Tuning	
Tuning Mode	DTV and ATV
Sta	rt Scan
DTV	
Scan Type	Quick Scan →
Start Frequency	Auto
End Frequency	Auto
Modulation	Auto
Symbol Rate	Auto
Network ID	Auto

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

DTV Scan Type:

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

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

DTV Start Frequency:

This sets the frequency from which the scan will begin.

DTV End Frequency:

This sets the frequency at which the scan will end.

DTV Modulation:

You can choose from five QAM modulation settings.

DTV Symbol Rate:

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

DTV Network ID:

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

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 MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀▶ to highlight System Setup icon.
- Press **OK** to display **System Setup** menu.
- Press ▲ or ▼ to select Satellite Settings and press

Satellite			
Switch T	Switch Type		ne
LNB Pov	/er	C	n
No.	Satellite	Dish	LNB
1	ASTRA 19.2°E	1	1
2			
3			
4			
Dish Type : Lower LOF	r : 1/83 (10743 MHz) Fixed (MHz) : 9600 (MHz) : 10600		
	Do	one	

- 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 ▲ or ▼ to select the satellite you want to delete.
- Press the **RED** button. A confirmation window will appear.
- 3 Press ◀ or ▶ 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 ◀or ▶ to select None, ToneBurst, DiSEqC

 2way or DiSEqC 4way as your satellite switch type.
- Press ▼ to highlight LNB Power and press ◀ or ▶ to select On or Off.

To add a transponder:

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



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

Trans	onder Setting	gs			
	Frequency	Polarisation	Symbol Rate	S/S2	
1	10743	Н	22000	S	
2	10773	Н	22000	S	
3	10788	٧	22000	S	
4	10817	V	22000	S	
5	10832	Н	22000	S	
6	10847	٧	22000	S	
7	10861	Н	22000	S	
8	10876	٧	22000	S	v

3 Press ▲ to highlight a new line.

Transponder Settings					
	Frequency	Polarisation	Symbol Rate	S/S2	
76	12640	V	22000	S	
77	12662	Н	22000	S	
78	12669	V	22000	S	
79	12692	Н	22000	S	
80	12699	V	22000	S	
81	12721	Н	22000	S	
82	12728	V	22000	S	
83					1

Press OK.



Edit each parameter as required and press OK.

83	12731	Н	22000	S2

To delete a transponder:

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

To edit the Transponder Settings:

- In the **Transponder Settings** menu, press ▲ or ▼ to highlight the line you want to edit and press **OK**.
- Press ◀ or ▶ to select Frequency, Polarisation, Symbol Rate or S/S2, and set the item using the number buttons 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 ▲ or ▼ to select the required satellite line and press OK.
- Press ◀or ▶ to highlight **Dish** and press the **GREEN** button.



Press ◀or ▶ 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 ▲ or ▼ to select the required satellite line and press OK.
- Press ◀or ▶ to highlight LNB and press the GREEN button

9750
10600

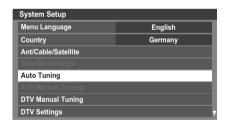
Press ▲ or ▼ to select Lower LOF or Upper LOF and input the appropriate frequencies.

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 MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀▶ to highlight System Setup icon.
- Press **OK** to display **System Setup** menu.
- Press ▲ or ▼ to select Auto Tuning and press OK.



For DTV/ATV Tuning:

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



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

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

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

You must allow the television to complete the search.

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

For Satellite Tuning:

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



Press ▲ or ▼ to highlight Satellite and press ◀ or ► to select the desired satellite (No.1 Sat ~ No.4 Sat or All)

You can select **Free to Air** or **All** as the Search Option. Highlight **Start Scan** and press **OK** to continue with the **Auto Tuning**.

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

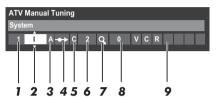
Press ▲ or ▼ to move through the list to select a channel and press **OK** to view.

ATV Manual Tuning

Tuning

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

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



1 Position

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

2 System

Specific to certain areas.

3 Colour System

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

4 Skip

Set Skip to On (♠) or Off (♣) for the selected channel. See page 26.

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 99.

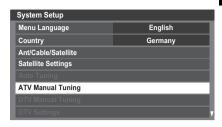
9 Station

Station identification. Use the $\triangle \nabla$ and $\triangleleft \triangleright$ buttons to enter up to seven characters.

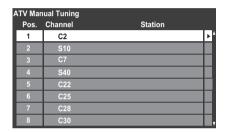
To allocate a position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder, press PLAY and manually tune.

In the System Setup menu, press ▼ to select ATV

Manual Tuning and press OK.



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



Different Channel numbers may be displayed.

- Press **OK** to select. If the channel chosen for the media recorder is set to skip, Skip should be removed before storing.
- Press ▶ to select **System** and press ▲ or ▼ to change if required.



- Then press ▶ to select **Search**.
- Press ▲ or ▼ to begin the search. The search symbol will flash.



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



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

PLEASE NOTE

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

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

Skip

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

- Select ATV Manual Tuning from the System Setup menu.
- Use ▲ or ▼ to highlight the position to be skipped and press **OK** to select.

ATV Man	ATV Manual Tuning				
Pos.	Channel	Station			
1	C2		٨		
2	S10				
3	C7				
4	S40	ABC1			
5	C22	ABC1			
6	C25				
7	C28				
8	C30		Ī٠		

Press ► to select Skip.

- Use ▲ or ▼ to turn **Skip** on. Press **OK**.
 - on the screen indicates a skipped position.



Press **BACK** and repeat from **Step 2** or press **EXIT**.

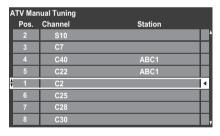
Each position has to be *individually* selected. To turn **Skip** off, repeat the procedure for each position.

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 System Setup menu.
- With the list of channels showing, use ▲ or ▼ to highlight the channel you want to move and press ▶.



- Use ▲ or ▼ to move through the list to your preferred position. As you do so, the other channels will move to make room.
- 4 Press ◀ to save your move.

Repeat as necessary and press EXIT.

DTV Manual Tuning

NOTE: The content of this menu varies depending on the DTV input (Antenna, Cable, or Satellite) that is currently selected.

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 **System Setup** menu and press **OK**.



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

DTV Manual Tuning					
	0 New Channels - Total 6				
New	Pos.	Name	Type		
		ABC ONE			
	2	ABC TWO			
	7	ABC THREE			
	40	ABC NEWS 24			
	51	ABCi			

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

Repeat as necessary. Press EXIT to finish.

Manual Tuning for DVB-C

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

Frequency – input a specific frequency to be scanned

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

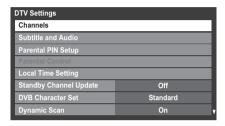
Highlight Start Scan and press OK.

DTV Settings

Channels (Antenna/Cable)

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

- Select **DTV Settings** from the **System Setup** menu and press **OK**.
- Select Channels and press OK.



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

Channels Line No.		TV Sort: A-Z Sort
Pos.	Name	-●+
1	ABC ONE	
2	ABC TWO	
7	ABC THREE	
30	CABC Channel	
40	ABC NEWS 24	
51	ABCi	
822	AA	
823	AC	

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

Name Jump — Press ◀◀ or ▶► to jump to the next station name with a different initial letter

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

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



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

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



Sort — Press the **YELLOW** button. A confirmation window will appear. Press **◄** or **▶** to select **Yes** and press **OK**.



The **Sorting Type** selection window will appear.



Press ◀ or ▶ to set the sorting type.

A-Z Sort Station name order (A to Z)

Number Position No. order (numerical sequence)

Press ▼ to highlight **Sort** and press **OK**.

Channels (Satellite)

- Select **DTV Settings** from the **System Setup** menu and press **OK**.
- Select Channels and press OK.

The satellite channel list will appear.

Channels Satellite TV Line No. 3/1200			
Pos.	Station	Satellite	-•
1	DDD	19.2°E	
2	AB	19.2°E	
3	E	19.2°E	-●+
801	BBC	22.5°E	-•
802	BB	22.5°E	
803	BA	22.5°E	
822	AA	25.6°E	
823	AC	25.6°E	-

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

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

Station Letter Jump — Press ◀◀ or ▶▶ to jump to the next station name with a different initial letter.

Satellite Jump — Press

d or

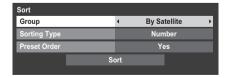
to jump to the next channel on a different Satellite.

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

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

Sort — Press the **YELLOW** button. A confirmation window will appear. Press **◄** or **▶** to select **Yes** and press **OK**.

The **Sort** menu will appear.



Group — Press ◀or ▶ to select All or By Satellite.

Sorting Type — Press **◄** or **▶** to set the sorting type.

A-Z Sort Station name order (A to Z)

Number Position No. order (numerical sequence)

Preset Order — Press ◀or ▶ to set Yes or No.

This item is displayed when Country is set to Germany, and only applies to the Astra 19.2°E satellite.

Press ▼ to highlight **Sort** and press **OK**.

Standby Channel Update

If the **Standby Channel Update** is set to **On**, when the TV is in standby mode, Digital Tuning is automatically executed and any new channels are saved.

- Select **DTV Settings** from the **System Setup** menu and press **OK**.
- Press ▼ to select **Standby Channel Update** and press ◀ or ▶ to select **On**.

DVB Character Set

This feature allows you to manually select the character set (**Standard** = Table 0, **West** = Table 5 or **Latin alphabet 9**) to be used for DVB-C or DVB-T channels.

- Select **DTV Settings** from the **System Setup** menu and press **OK**.
- Press ▼ to select **DVB Character Set** and press ◀ or ► to select **Standard**, **West** or **Latin alphabet 9**.

Dynamic Scan

If the broadcast information has changed in your DVB-T receiving area, the TV screen will display the message "Broadcast information has changed. Would you like to

rescan now?". Select Yes or No. If you do not wish for the TV to detect changes and prompt you to rescan, you should set this feature to "Off".

- Select **DTV Settings** from the **System Setup** menu and press **OK**.
- Press ▼ to select **Dynamic Scan** and press ◀ or ▶ 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 System Setup menu.
- Press ◀or ▶ to select Home or Store.

Analogue switch-off

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

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

General controls

Ouick Menu

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

Press **QUICK** to display the **Quick Menu** and use \triangle or \bigvee to select the option.

Quick Menu		
Picture Mode	4	AutoView ►
Picture Size		Super Live
3D Settings		
Personal Mode		
More Information		
Channel Options		
Sleep Timer		00:00
REGZA-LINK Device Control		
Speakers		TV Speakers
Headphone Level	50	
Wireless Information		
Recording Information		

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

Quick menu item example

Mode	Quick menu item	Description
When viewing a TV	Picture Mode	See page 41.
programme or	Picture Size	See page 39.
pictures from the external input	3D Settings	See page 34.
	Personal Mode	See page 91.
Single Window or	More Information	See page 81.
3D Single Window	Channel Options	See page 84.
	Sleep Timer	See page 80.
	REGZA-LINK Device Control	See page 95.
	Speakers	See page 94.
	Headphone Level	See page 38.
	Wireless Information	See page 51.
	Recording Information	See page 63.
When using EPG	Genre Colour	See page 82.
	EPG Update/ Cancel EPG Update	See page 82.
Media Player	Sort	See page 71.
(Photo Multi View,	Playback Mode	See page 72.
List View)	Interval Time	See page 71.
	Repeat	See page 71.
	Shuffle	See page 75.
	Device Information	See page 72.
	Wireless Information	See page 51.

Mode	Quick menu item	Description
Photo Frame	Picture	See page 41.
(Full Screen)	Picture Size	See page 39.
	3D Settings	See page 34.
	Personal Mode	See page 91.

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 ()/(EX) 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 ◀ or to select settings.

Mode Display	Pressing ▶
	Stereo → Left → Right
O Dual mono	Dual 1 → Dual 2 → Dual
Mono	-
Multichannel	-

For multi-audio track broadcasts, press \(\)\[\]\[\]\ repeatedly to change the audio language (see "Audio languages" on page 85).

For ATV programmes

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

Stereo... Press \(\int \bar{\partial} \bar{\partial} \bar{\partial} \text{ 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 [] [] [to select **Dual 1, Dual 2** or **Mono**.

Using 3D functions

Before using 3D programming, see and follow "When using the 3D glasses" section on page 8.

Viewing 3D programming requires the following:

- TOSHIBA 3D Glasses FPT-AG02G YL86 and YL87 series: Supplied WL86 series: Not supplied
- · Compatible 3D playback device or 3D source
- · 3D capable high quality HDMI cable

Using the 3D glasses

Names and functions

Lens (liquid-crystal shutter)

A right and left liquidcrystal shutter opens and closes alternately with the images for the left eye and for the right eye alternately projected on the television screen. In this way, 3D images are reproduced.

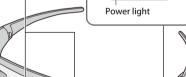
Power switch and power light

Turns on or off the power of 3D glasses with the switch.

- When working, the power light blinks once every 2
- seconds.

 When the power is turned off, the power light goes out.

Power switch



Protective filmsPeel these off before beginning use.

Infrared reception part

Receives the infrared signal for the liquidcrystal shutter control sent from the television.

USB terminal

When charging the battery, connect to the TV with the battery charge cable.



To set the 3D glasses:



When you use for the first time, peel off the protective films from the lenses.



2

Turn the 3D glasses on with the power switch.

NOTE: If the infrared data communication between the television and 3D glasses is lost for 5 minutes, the 3D glasses turn off automatically to preserve battery life.

To charge the battery:

If the 3D glasses are turned on while the battery power is low, the power light will blink 5 times. (If the battery is dead, the power light will not blink or light.)



Turn the 3D glasses off with the power switch, and connect to the TV with the battery charge cable.



NOTE:

- If the 3D glasses are turned on, the battery will not charge.
- When the TV is turned off or in standby mode, the battery will be not charge.
- When charging the battery, the use of a USB cable other than the battery charge cable supplied is not covered by warranty.
- 2
 - The power light will Light up.



When the light goes out, the charging is completed.

NOTE:

- It takes approximately two hours to charge the battery.
- If the usage time is extremely short even after the battery has been charged fully, the battery may be worn out. Contact your dealer.

To check the battery level:

When the 3D glasses are turned on, the behaviour of power light is different.

- Charged: Lights up for 2 seconds
- · Low charge: Blinks 5 times

CAUTION: Danger of explosion if battery is incorrectly disposed of.

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 35). 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", below.

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.	

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 TR 3D formats are the following

16. 3D formats are the following.				
3D format	Description			
Side by Side (SBS)	Images for the left and right eyes are positioned side-by-side.			
Top and Bottom (TB)	Images for the left and right eyes are positioned at the top and bottom of the screen.			
Frame Packing (FP) *	Image for the left and right eyes for two frames are positioned at the top and bottom of the screen.			

^{*} This format cannot be selected manually.

The 3D button's operation:

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

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

To switch to 3D mode:

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

Trigger of Switching Display Mode Input Signal				Press 3D button	
input Si	gnai				
Type	Additional Information	Format	Source Signal	Select 3D	Select 2D to 3D
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D	* 3D	
			3D 3D	* 3D	
			[3]D] [3]D]	* 3D	
	Without 3D Auto Detect Information	SBS	3D 3D	* 3D	3D 3D
		ТВ	8D 8D	D 3	(B)
2D Format Signal			3D	D 3	* 3D
* 6					

^{*} Correct 3D image

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

- Press QUICK to display the Quick Menu.
- Press ▲ or ▼ to select 3D Settings and press OK.
- Press ▲ or ▼ to select 3D Format Select and press
 OK.
- Press ◀or ▶ to select Side by Side or Top and Bottom.

Trigger of Switching Display Mode				Quick menu	
Input Signal				3D Fomat Select	
Type	Additional Info	Format	Source Signal	SBS	ТВ
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D		
	SBS	3D 3D			
		ТВ	60 610		
	Without 3D Auto Detect Information	SBS	3D 3D	* 3D	עט עט הט הט
			SD SD	3 0 0	* 3D
2D Format Signal			3D	D3	SD OD

^{*} Correct 3D image

To switch to 2D mode:

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

Trigger of Switching				
Input Sid	Press 3D			
Туре				button
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D	* 3D
		SBS	3D 3D	* 3D
		ТВ	(1) (1)	* 3D
	Without 3D Auto Detect	SBS	3D 3D	3D 3D
	Information	ТВ	SD SD	80 80
2D Format Signal			3D	* 3D

^{*} Correct 2D image

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

- Press QUICK to display the Quick Menu.
- Press ▲ or ▼ to select 3D Settings and press OK.
- Press ▲ or ▼ to select 2D Format Select and press
- Press ◀ or ▶ to select 2D (SBS) or 2D (TB).

Trigger of Switching Display Mode						
Input S	Input Signal			2D Fomat 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	80 80		* 3D	SD SD
	Without 3D Auto Detect Information	SBS	3D 3D	* 3D	חכ חכ	3D 3D
		ТВ	3D 3D	3 3	* 3D	3D 3D
2D Format Signal			3D	3	<u> </u>	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 ▲ or ▼ to select 3D Settings and press OK.
- Press ▲ or ▼ to select 2D Format Select and press OK.
- B Press ◀ or ▶ to select Native.

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

To switch to 2D to 3D mode:

Press **3D** and select **2D to 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 MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀▶ to highlight Preferences icon and press **OK**.
- Press ▲ or ▼ to select 3D Setup and press OK.

Preferences	
3D Setup	
Recording Setup	
Personal TV Setup	
REGZA-LINK Setup	
Network Setup	
Network Device Setu	ıp
Media Renderer Setu	р
Photo Frame Setup	

- Press ▲ or ▼ to select 3D Auto Start.
- Press ◀or ▶ to select 3D, 2D, or Off.

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

Setting the 3D PIN code

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

To enter a new PIN code:

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

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

To change or delete your PIN code:

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

NOTE:

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

Setting 3D Start Message

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

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

Setting 3D Lock

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

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

Setting 3D Timer Lock

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

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

Setting Enable 3D Timer

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

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

Displaying 3D Important Info

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

Adjusting 2D to 3D Depth

You can adjust the level of 3D.

From the Menu:

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

From the Quick Menu:

- Press QUICK on the remote to open the Quick Menu.
- Press ▲ or ▼ to select 2D to 3D Depth and press OK.
- 3 Press ◀ or ▶ to select 1, 2, 3, 4, or 5.

Switching left and right images

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

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

Sound controls

Volume controls and sound mute

Volume

Press $\stackrel{\frown}{+}$ or $\stackrel{\frown}{-}$ to adjust the volume.

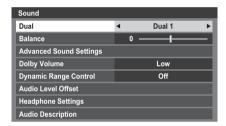
Sound Mute

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



Balance

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

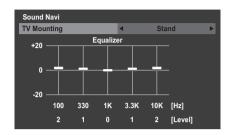
Sound Navi

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

- In the **Sound** menu, press ▲ or ▼ to select **Advanced Sound Settings** and press **OK**.
- Press ▲ or ▼ to select Sound Navi and press OK.

Advanced Sound Settings	
Sound Navi	
Surround	Off
Voice Enhancement	On
Dynamic Bass Boost	Low

- Press ◀or ▶ to select either **Stand** or **Wall** depending on how your TV is installed and press the **RED** button.



Repeat step 4 for other frequencies.

Surround Settings

Surround, Voice Enhancement, and Dynamic Bass Boost help to create an enhanced surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider.

- In the Sound menu, press ▲ or ▼ to select Advanced Sound Settings and press OK.
- Press ▲ or ▼ to select Surround and press ◀ or ▶ to select Off, Spatial or Cinema.



- Press ▼ to highlight **Voice Enhancement** and press ◀ or ▶ to select **On**.
- Press ▼ to highlight **Dynamic Bass Boost** and press ◀ or ▶ to select the desired bass expansion level (**Off**, **Low** or **High**).

Dolby Volume®

This feature provides a consistent sound volume regardless of programmes, channels or input sources.

- In the **Sound** menu, press **▲** or **▼** to select **Dolby Volume**.
- Press ◀ or ▶ to select Low, High or Off.

NOTE:

- The Dolby Volume setting influences the Dynamic Range Control and Digital Audio Output settings.
- This feature will automatically switch Off when Dynamic Range Control is set to On or Digital Audio Output is set to Auto.

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 ▲ or ▼ to select **Dynamic** Range Control.
- Press ◀or ▶ to select On or Off.

NOTE: This feature will automatically switch **Off** when **Dolby Volume** is set to **Low** or **High**.

Audio Level Offset

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

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

Audio Level Offset	
DTV 2ch	-5
ATV	0
External Input	0

NOTE:

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

Headphone Settings

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

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

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

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

Audio Description

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

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



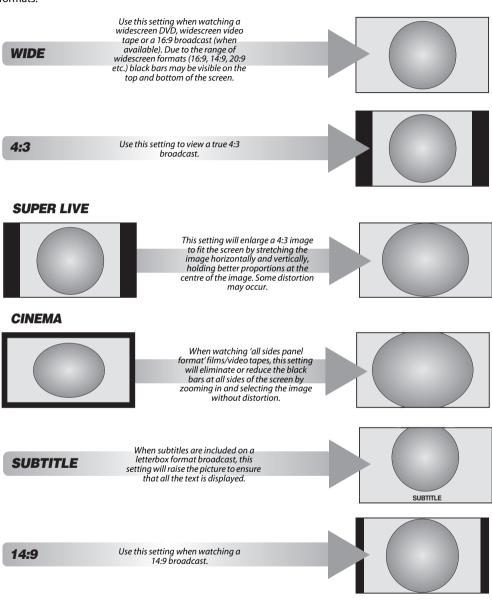
The **AD** button on the Remote can also be used to toggle the **Audio Description** feature between On and Off.

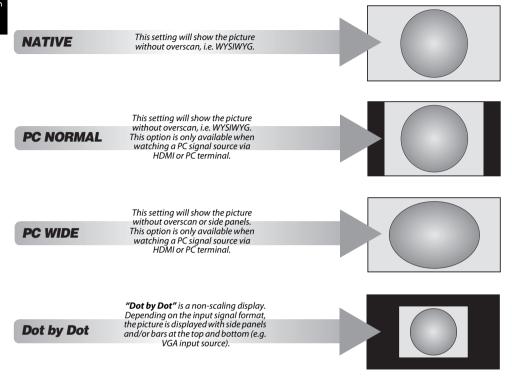
To adjust the level of the audio description sound to the main sound, highlight **Mixing Level** and press

or ▶.

Widescreen viewing

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

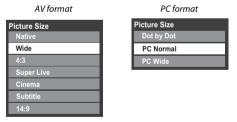




Press the F button on the Remote to display the list of available widescreen formats.

Press the button repeatedly to highlight the required format.

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



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

Picture controls

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

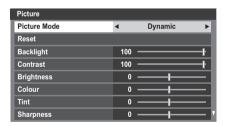
Picture Mode

This television offers the choice of personalising the picture style.

AutoView, Dynamic, Standard, Hollywood 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 Mode menus are grayed out when it is selected.
- Store mode is only available when Location is set to Store.
- Game mode is available in external input mode (other than aerial input). When you select Game mode, suitable widescreen formats will be selected.
- PC mode is available in RGB/PC input mode or HDMI input mode.
- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀▶ to highlight Picture icon and press OK to display Picture menu.
- Press ▲ or ▼ to select **Picture Mode**.



Press ◀or ▶ 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 ▲ or ▼ to select either Backlight, Contrast, Brightness, Colour, Tint or Sharpness and press OK.
- 2 Press ◀ or ▶ to adjust the settings.

Reset

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

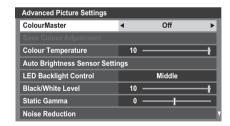
- In the **Picture** menu, press ▲ or ▼ to select **Reset** and press **OK**.
- A confirmation message will appear. Press ◀or ▶ to select **Yes** and press **OK**.

ColourMaster

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

- In the Picture menu, press ▲ or ▼ to select

 Advanced Picture Settings and press OK.
- Press ▲ or ▼ to select ColourMaster.



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

Base Colour Adjustment

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

- In the Advanced Picture Settings menu, press ▲ or
 ▼ to select Base Colour Adjustment and press OK.
- Press ▲ or ▼ to select an option and press ▶ to move to the adjustment window.

Base Colour Adjustment						
	Hue	Saturation	Brightness			
Red	0	0	0	•		
☐ Green		0	0			
Blue		0	0			
Yellow		0	0			
■ Magenta		0	0			
Cyan		0	0			
Reset						

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

	Hue	Saturation	Brightness
Red	0	0	-1

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 ▲ or ▼ to select **Colour Temperature** and press **OK**.
- Press ◀or ▶ to adjust the level.

The adjustment range is 0 (warm) to 10 (cool).

NOTE: If **Picture Mode** is set to **AutoView**, the adjustment range is -5 to +5.

Auto Brightness Sensor Settings

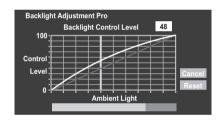
When the Auto Brightness Sensor is activated, it will automatically optimise the backlighting levels to suit ambient light conditions.

- In the Advanced Picture Settings menu, press ▲ or ▼ to select Auto Brightness Sensor Settings and press OK.
- Press ◀ or ▶ to select **On** and press **OK**.



- Press ▲ or ▼ to select Backlight Adjustment Pro and press OK.
- The **Backlight Adjustment Pro** window will appear.

 Press **OK** again to display the adjustment window.
- Press ◀ or ▶ to select a point and press ▲ or ▼ to adjust the level.



6 Press **OK** to fix the adjustment.

To cancel the adjustment when selecting a point, select **Cancel** and press **OK**.

To return the adjustments of all points to the factory defaults, select **Reset** and press **OK**.

LED Backlight Control

You can adjust the backlighting of the black areas of the image and enhance the contrast.

- In the Advanced Picture Settings menu, press ▲ or
 ▼ to select LED Backlight Control.
- Press ◀or ▶ to select Low, Middle, High, Auto or Off.

NOTE: When **Picture Mode** is set to any mode other than **AutoView**, **Auto** is grayed out.

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 ▲ or
 ▼ to select **Black/White Level**.
- Press ◀or ▶ to adjust the level. The effect depends on the broadcast and is most noticeable on dark colours.

Static Gamma

The static gamma feature allows you to adjust the levels of black in the picture.

- In the Advanced Picture Settings menu, press ▲ or
 ▼ to select Static Gamma.
- Press **d**or **b** to adjust the level.

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 edaes.

- In the Advanced Picture Settings menu, press ▲ or
 ▼ to select Noise Reduction and press OK.
- Press ▼ to select MPEG NR.



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

DNR - Digital Noise Reduction

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

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

Resolution+

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

- In the Advanced Picture Settings menu, press ▲ or
 ▼ to select Resolution+ and press OK.
- 2 In the **Resolution**+ field, select **Auto**.



Press ▲ or ▼ to highlight Level and press ◀ or ▶ to adjust the level.

NOTF:

- This feature may not work properly depending on the content
- Adjustable range varies according to the Picture Mode you set.
- Noise may appear in the picture depending on the device connected to the TV (e.g. a device with a specific enhancer function).

Active Vision M800

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

- In the Advanced Picture Settings menu, press ▲ or
 ▼ to select Active Vision M800.
- Press ◀ or ▶ to select Smooth, Standard or Off.

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

Motion Detection Range

This feature is to set the range of the adjustment of movement in the double-scan processing. If you feel uncomfortable in motion picture, select **Standard**.

- In the Advanced Picture Settings menu, press ▲ or
 ▼ to select Motion Detection Range.
- Press ◀ or ▶ to select **Wide** or **Standard**.

Wide—Double-scan effect for higher-speed motion picture

Standard—Stabilized double-scan effect

NOTE: When **Active Vision M800** is set to **Off**, this feature will be grayed out.

3D Judder Cancellation

This feature will reduce 3D images blur without adding flicker.

- In the Advanced Picture Settings menu, press ▲ or
 ▼ to elect 3D Judder Cancellation.
- Press ◀or ▶ to select Auto or Off.

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

Resetting the advanced picture settings

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

- In the **Advanced Picture Settings** menu, press ▲ or
 ▼ 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 ▲ or ▼ to select Expert
 Picture Settings and press OK to display Expert
 Picture Settings menu.
- Press ▲ or ▼ to select **Test Pattern**.
- Press **◀** or **▶** to select **On**.
- 4 Press EXIT to close.

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 ▲ or ▼ to select RGB Filter and press OK.
- Press ▲ or ▼ to select **Red**, **Green** or **Blue** to adjust.
- Press **◄** or **▶** to select **On**.
- Press ▲ or ▼ to select Colour or Tint and press ◀ or ▶ to adjust.

Press EXIT

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** (**BT601** and **BT709**) are to convert an irregular signal output from the DVD etc. with incorrect colour to the optimum state. If **BT601** or **BT709** 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 ▲ or ▼ to select Colour Decoding.
- Press ◀or ▶ to select Auto, BT601 or BT709.

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 ▲ or ▼ to select White Balance and press OK.
- Press ▲ or ▼ to select Window Display and press ◀ or ▶ to select On.
- Press **EXIT** to close.

White Balance-Setting Type

You can choose from two types of White Balance adjustment.

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

White Balance-2P White Balance

- Press ▼ to select 2P White Balance.
- Press ▲ or ▼ to select Red-Offset, Green-Offset,
 Blue-Offset, Red-Gain, Green-Gain, or Blue-Gain.
- Press ◀or ▶ to adjust.

White Balance-10P White Balance

- Press ▼ to select 10P White Balance.
- Press ▲ or ▼ to select IRE, Red, Green, or Blue.
- Press ◀ or ▶ to adjust.

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

Colour Calibration

The aim of Colour Calibration is to measure and/or adjust the colour response (White Balance) of your LCD panel. Colour Calibration is used by various fields, such as gaming, photography, engineering, medical and more. In order to calibrate a display correctly, you need a colour analyzer **TPA-1** (not supplied).

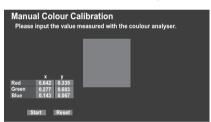
NOTE: This feature is available when the Picture Mode option is **Hollywood Pro**.

Apply Calibration

- In the Expert Picture Settings menu, press ▲ or ▼ to select Colour Calibration and press OK.
- Press ▲ or ▼ to select Apply Calibration and press ◀ or ▶ to select Enabled.

Manual Colour Calibration

In the Colour Calibration menu, press ▲ or ▼ to select Manual Colour Calibration and press OK.



- Place the probe of the colour analyzer over the square on screen to measure.
- Input the value measured with the colour analyzer using the number buttons (0-9).

	х	у
Red	0.642	0.335
Green	0.277	0.603
Blue	0.143	0.067

- Press AV A and input the values to fill all RGBxy matrix table.
- Highlight Start and press OK.

Please wait until you see "Manual Colour Calibration has been completed." on screen.

To return to factory setting

Highlight Reset and press OK.

Auto Colour Calibration

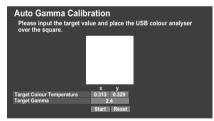
- In the Colour Calibration menu, press ▲ or ▼ to select Auto Colour Calibration and press OK.
- Connect the USB colour analyzer to the USB 1 or USB 2 port.
- Place the probe of the USB colour analyzer over the square on screen and press **OK**.

Auto Colour Calibration will start.

Please wait until you see "Auto Colour Calibration has been completed.".

Gamma Calibration

- In the Expert Picture Settings menu, press ▲ or ▼ to select Gamma Calibration and press OK.
- Press ▲ or ▼ to select **Apply Calibration** and press ◀ or ▶ to select **Enabled**.
- Press ▲ or ▼ 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**.

Resetting to the factory defaults

In the Expert Picture Settings menu, press ▲ or ▼ to select Reset and press OK.

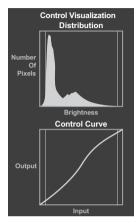
A confirmation screen appears.

2 Select **Yes** and press **OK**.

Control Visualization

This feature displays the brightness histogram and control curve of the current video signal.

In the Picture menu, press ▲ or ▼ to select Control Visualization and press OK. The histogram window will appear.



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

Automatic Format (Widescreen)

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

- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲/◀▶ to highlight Preferences icon and press OK.
- Press ▲ or ▼ to select **Display Settings** and press **OK**.
- Press ▲ or ▼ to select Auto Format and press ◀ or ► to select On or Off.



4:3 Stretch

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

- In the Preferences menu, press ▲ or ▼ to select Display Settings and press OK.
- Press ▲ or ▼ to select **4:3 Stretch** and press ◀ or ▶ to select **On** or **Off**.

Blue Screen

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

NOTE: Some external input sounds may not be muted.

- In the **Preferences** menu, press ▲ or ▼ to select **Blue**Screen.
- Press ◀ or ▶ to select **On** or **Off**.

Picture Position

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

- In the **Preferences** menu, press ▲ or ▼ to select **Display Settings** and press **OK**.
- In the **Display Settings** menu, press ▲ or ▼ to select **Picture Position**.



- Press **OK** to view the options available for the picture format that has been selected.
- Press ▲ or ▼ to select an option and press ◀ or ▶ to adjust the settings.

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 the [j+] button displays the HDMI signal information banner.

- In the **Preferences** menu, press ▲ or ▼ to select **HDMI Information Display**.
- Press **◄** or **▶** 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).

* If the HDMI input source is interlaced, "Field Rate" will be displayed instead of "Frame Rate".

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 $^{\text{TM}}$ or Wireless LAN device.

Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Wireless LAN and your Health

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

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

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

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

When using the TV under 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.

Europe Statement

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

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

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



Ukraine Statement

Contains approved built-in WLAN Module, model name: WLU5060-D4 (ROHS), approved by CB "UkrCERTRADIO".

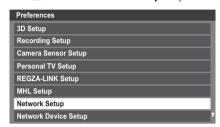


0.2.5

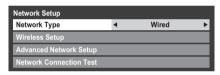
Setting up the Network

You can select the Network Type.

- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀▶ to highlight Preferences icon and press **OK**.
- Press ▲ or ▼ to select **Network Setup** and press **OK**.



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



If you selected Wired, see "Advanced Network Setup" on page 51.

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 **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Wireless Setup and press OK.
- Press ▲ or ▼ to select Easy Setup and press OK.



- Press ◀ or ▶ 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**.

To cancel searching for the AP:

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

Easy Setup using PIN (Personal Identification Number)

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Wireless Setup and press OK.
- Press ▲ or ▼ to select Easy Setup and press OK.
- Press ◀ or ▶ to select PIN.
- Press ▼ to select Start Scan and press OK.
- Press \triangle or ∇ 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; then, press **◄** or **►** to select **Yes** and press **OK**.

Assisted Setup

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Wireless Setup and press OK.
- Press ▲ or ▼ to select **Assisted Setup** and press **OK**.
- Press ▲ or ▼ to select the desired AP and press **OK**.

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

- Highlight **Security Key** and press **OK**. The Software Keyboard window will appear.
- Input the Security Key by using the Software Keyboard (see page 53). To save your setting, press the BLUE 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 4 and 5 in **Manual Setup** below to set **Network Name** before pressing **Done**.

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

Manual Setup

- In the Preferences menu, press ▲ or ▼ to select Network Setup and press OK.
- Press ▲ or ▼ to select Wireless Setup and press OK.
- Press ▲ or ▼ to select Manual Setup and press OK.
- Press ▲ or ▼ to select Network Name and press OK. The Software Keyboard window will appear.
- Input the Network Name by using the Software Keyboard (see page 53). To save your setting, press the BLUE button.

- Press ▲ or ▼ to select Authentication and press ◀ or ► to select Open System, Shared Key, WPA-PSK or WPA2-PSK.
- Press ▲ or ▼ to select Encryption and press ◀ or ► 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 ▲ or ▼ to select Security Key and press OK.
- Input the Security Key by using the Software Keyboard (see page 53). To save your setting, press the **BLUE** button.

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

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

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

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

Enhanced 11n

When **Enhanced 11n** is set to **On**, the Dual Channel (40MHz) feature is available.

NOTE: In addition, some other optional 11n features will be enabled.

- In the Preferences menu, press ▲ or ▼ to select
 Network Setup and press OK. Highlight Wireless
 Setup and press OK.
- Press ▲ or ▼ to select Enhanced 11n and press ◀ or ▶ to select On.

Wireless Information

The settings configured in Wireless Setup can be confirmed.

Press QUICK to open the Quick Menu.

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

Quick Menu					
Picture Mode	AutoView				
Picture Size	Super Live				
3D Settings					
Personal Mode					
More Information					
Channel Options					
Sleep Timer	ep Timer 00:00				
REGZA-LINK Device Control					
Speakers	TV Speakers				
Headphone Level	50 ——				
Wireless Information					

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

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

NOTE: Tress the RED Button to scan for all Ar s.				
Item	Description			
Status	Connected is displayed when the TV is connected with the AP. Disconnected is displayed when the TV is not connected with the AP.			
Signal	Connection signal strength with AP (STRONG/MEDIUM/WEAK)			
Speed	Link with AP			
Mode	Working mode (11a, 11b, 11g, 11n)			
Channel	Channel in use (1-165)			
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 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 50).

Notes on wireless LAN environment:

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

Advanced Network Setup

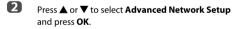
NOTE:

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

IP Address Setup

Auto Setup:

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

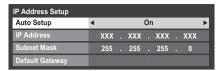


Network Type	Wired
Wireless Setup	
Advanced Network Setup	
Network Connection Test	

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



4 Highlight Auto Setup and press ◀or ▶ to select On.



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

Manual Setup:

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- Press ▲ or ▼ to select IP Address Setup and press
 OK.
- Highlight Auto Setup and press ◀ or ▶ to select Off.

IP Address Setup							
Auto Setup	4			Of	f		•
IP Address		XXX	XXX		XXX	XXX	
Subnet Mask		255	255		255		
Default Gateway							

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

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

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

IP Address Setup							
Auto Setup				Of	f		
IP Address	XXX		XXX		XXX	XXX	
Subnet Mask	255		255		255	0	
Default Gateway							

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

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

DNS Setup

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

Auto setup:

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- Press ▲ or ▼ to select **DNS Setup** and press **OK**.
- Press ▲ or ▼ to highlight Auto Setup and press ◀ or ► to select On.

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

Manual setup:

- In the **Preferences** menu, press ▲ or ▼ to select **Network Setup** and press **OK**.
- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- Press ▲ or ▼ to select **DNS Setup** and press **OK**.
- Press ▲ or ▼ to select Auto Setup and press ◀ or ► to select Off.

DNS Setup								
Auto Setup	4				Off	F		▶
Primary DNS Address		XXX		XXX		XXX	XXX	
Secondary DNS Address		255		255		255		

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

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

Press ▲ or ▼ 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.

- In the **Preferences** menu, press ▲ or ▼ to select

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

Network Connection Test

This function checks the Internet connectivity.

- In the **Preferences** menu, press ▲ or ▼ to select

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

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

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

To cancel the Network Connection Test:

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

Using the software keyboard

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

To enter text using the software keyboard:

- Highlight the desired character on the on-screen software keyboard.
- Press OK.
- Repeat steps 1 and 2 until you have entered all desired text.
- Press the **BLUE** button to close the software keyboard and return to the previous screen.

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



Input operation on the remote control:

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

Network Device Setup

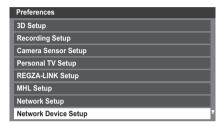
External Control Setup

This setup allows you to operate a home network-connected your TV from an external device.

Media Controller Setup

In the **Preferences** menu, press ▲ or ▼ to select

Network Device Setup and press OK.



- Press ▲ or ▼ to select External Control Setup and press OK.
- Press ▲ or ▼ to select an option and press **OK**.

The Software Keyboard window will appear.

User Name — Input the User Name (to control the TV from the iPhone etc.) by using the on-screen software keyboard (see page 53). The maximum number of characters is 16.

Password — Input the Password (to control the TV from the iPhone etc.) by using the on-screen software keyboard (see page 53). The maximum number of characters is 16.

NOTE: Toshiba does not guarantee normal operation with all connected devices.

Media Renderer Setup

Terminology:

DMS: DLNA CERTIFIED™ Server
DMR: DLNA CERTIFIED™ Renderer

DMC: DLNA CERTIFIED™ Controller

The TV can be configured as a DMR. When operating as a DMR, the TV displays content provided by a DMS. The selection of the media is done by the DMC - the TV does not select the input. The TV can play photo, movie, or audio files when operating as a DMR.

Media Renderer

- In the **Preferences** menu, press ▲ or ▼ to select **Network Device Setup** and press **OK**.
- Press ▲ or ▼ to select Media Renderer Setup and press OK.
- Press ▲ or ▼ to select **Media Renderer**, and then press ◀ or ▶ to select **On** or **Off**.

Media Controller Setup

You can limit which DMC can control this TV. If Access Control is enabled, only those DMCs with a check will be allowed to control the TV.

- In the Media Renderer Setup menu, press ▲ or ▼ to select Media Controller Setup and press OK.
- Press ▲ or ▼ to select Access Control and press ◀ or ▶ to select On.
- Press ▲ or ▼ to select Select Media Controller and press OK.
- Press ▲ or ▼ to highlight the item you want to select and press OK. A check will appear in the box.

To remove the check, press **OK** again.

Press ► to highlight **Done** and press **OK**.

NOTE:

- · You can select up to 8 DMC devices.
- If you would not like to limit the DMCs for this TV, set Access Control to Off.
- Devices other than DMCs may be displayed in the list.
 Confirm the MAC address of the DMC and set it.

Maximum Volume Setup

This feature allows you to set the maximum volume of the TV when it receives volume operation commands from a DMC.

In the Media Renderer Setup menu, press ▲ or ▼ to select Maximum Volume Setup, and press ◀ or ▶ to adjust to the desired volume.

NOTE:

- The TV's remote control can set volume regardless of the value of **Maximum Volume Setup**.
- When DMR playback ends, the TV volume will return to the value in effect when DMR playback was started.

Power Control Mode

When the TV is connected to the home network via Wireless LAN,
Wake-on-LAN can be received from an external device
connected to the home network to turn on the TV.

- In the **Preferences** menu, press ▲ or ▼ to select **Network Device Setup** and press **OK**.
- Press ▲ or ▼ to select Power Control Mode and press ◀ or ▶ to select On or Off.

NOTE:

- When Wired is selected for the Network type in Network Setup, this feature will be grayed out.
- 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.

Device Name Setup

The TV's DMR device name can be changed. The device name can be confirmed from the DMC.

- In the **Preferences** menu, press ▲ or ▼ to select **Network Device Setup** and press **OK**.
- Press ▲ or ▼ to highlight **Device Name Setup** and press **OK**.
- Highlight the **Device Name** field and press **OK**. The Software Keyboard window will appear.
- Input the Device Name by using the software keyboard (see page 53). Press the **BLUE** button.

NOTE: The Device Name can be up to 15 characters long.

Highlight **Done** and press **OK** to save your setting.

Using the USB HDD Function

The USB HDD function can be used to record and view digital broadcast programmes. Read the precautions below before recording or viewing programmes using the USB HDD function.

NOTE:

- 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 one channel while recording another.
- If the recording time to the USB HDD is too short, no data may be sayed.
- · 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.
 Also, leaving the power switch "ON" until recording is scheduled to start, may cause the recording to fail.
- Should video or audio recording fail due to malfunction of the TV or poor reception, no compensation shall be paid.
- You can reserve up to a total of 64 programmes for recording and viewing.
- 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 lamp 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.
- When the "Programme Tracking" for programmed recording is set to "On" and the broadcast time of the scheduled programme overlaps with the start time of timer viewing due to delay, extension, or other causes, timer viewing will be cancelled.
- Depending on the situation at the time, not all items can be set or changed. ("X" indicates no setting.)
- 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.
- Changing the USB 2 Port Setup to Media Player will invalidate all previously made programmed recordings (see page 70).

To record DTV programmes (One Touch Recording)

You can easily record the programme currently being viewed.

Press the ● REC button on the remote control.

Recording for the currently viewing programmes will start.

The programme indicator (red) will be lit.

To stop recording

Press the ■ (stop) button.

A confirmation window "Do you want to stop Recording" will appear.

Press **⋖**or **>** to select **Yes** and press **OK**.

Recording will stop.

To schedule programmed recording

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. The menus and other channels will not be available during the timed programme unless the programme timer is cancelled.

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

To schedule programmed recording using the Programme Guide

Press the **GUIDE** button on the remote control (or select **TV Programmes** / **Guide** menu from the menu system) to display the EPG screen.

Press ▲▼◀▶ to highlight the programme you want to record.

Press **OK**. The **Set Timer** menu will appear.



- Press ▲ or ▼ to highlight Timer Type and press ◀ or ▶ to select Recording.
- Press ▲ or ▼ to highlight **Recording Device** and press ◀ or ▶ to select the connected USB HDD.
- Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.

Programme Tracking:

If information concerning programme delay is sent from the broadcasting station, Programme Tracking will link recording with a delay of up to three hours. Programme Tracking is enabled when **On** is selected. (It does not support advancing of the broadcast time.)

Protect:

Select this function when you want to protect a recorded programme. When **On** is selected, the programme will be protected. You can protect and unprotect recorded programmes afterwards.

Personal Grouping:

Setting Personal Mode for a programme when it is recorded makes it easier to find later for viewing. Select your preferred **Personal Mode**. If you select **None**, the programme will be grouped by **All** in **Library**.

NOTE: To change the set Start Time or End Time, select Change Time and press OK. Change the Start Time or End Time from the displayed Set Timer screen.

Press ▲ or ▼ to highlight **Set Timer** and press **OK**.

The **ORANGE LED** will be lit.

To search for and schedule a programme you want to record using Genre Search

- In the Guide screen, press QUICK.
- Press ▲ or ▼ 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.
- Press the YELLOW button to access the Genre Search screen.

Gen	re Search		10:50 Tue, 6 Apr
	Movies D		@ L *
	34 AB1	Hard Rain	Wed,27 Apr 0:15- 1:45
	31 PARIS PREMIERE	Red Corner	Wed,27 Apr 22:15- 23:55
	11 NT1	The Lawnmower Man	Thu,28 Apr 1:20-3:00
	9 W9	A Vow to Kill	Fri,29 Apr 1:30-3:00
	34 AB1	Parenthood	Sat,30 Apr 0:45- 2:40
	11 NT1	Body and Soul	Sat,30 Apr 1:15- 3:00
	31 PARIS PREMIERE	The Nun's Story	Sat,30 Apr 15:00- 17:30
	9 W9	Red Corner	Sat,30 Apr 23:20- 1:15
	11 NT1	The Real Blonde	Sun,1 May 0:40- 2:00
	31 PARIS PREMIERE	Critters	Sun,1 May 0:40- 2:20
	11 NT1	Indiana Jones and the Temple of Doom	Sun,1 May 21:10- 23:20
	11 NT1	The jackal	Sun,1 May 23:20- 1:15
	34 AB	Coup De Ville	Mon,1 May 1:10- 3:00

Press ◀ or ▶ to select the genre. Programmes listed will change for the new genre. Press ▲ or ▼ to select the programme for which you want to schedule recording.

6 Press **OK**. The **Set Timer** menu will appear.



- Press ▲ or ▼ to highlight **Timer Type** and press **◄** or ▶ to select **Recording**.
- Press ▲ or ▼ to highlight **Recording Device** and press ◀ or ▶ to select the connected USB HDD.
- Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.

Refer to step 6 on page 56 for details.

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

The ORANGE LED will be lit

To programme the timer

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight TV
 Programmed / Programme Timers icons and press
 OK.
- Select the unprogrammed column (blank column) and press **OK**.

The **Set Timer** menu will appear.



- Press ▲ or ▼ to highlight **Timer Type** and press ◀ or ► to select **Recording**.
- Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.

Channel:

Select the channel for programmed recording.

Date:

Select the date for programmed recording.

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.

Recording Device:

Select the connected USB HDD.

Protect:

Select this function when you want to protect a recorded programme. When **On** is selected, the programme will be protected.

You can protect and unprotect recorded programmes afterwards.

Personal Grouping:

Select a Personal Mode for the programme to be recorded to make it easier to find later for viewing. Select your preferred Personal Mode. If you select **None**, the programme will be recorded to **All** in **Library**.

Subtitle:

Select **On** when you want subtitles to be included in the recording.

Press ▲ or ▼ to highlight **Set Timer** and press **OK**.

The **ORANGE LED** will be lit.

To schedule a programme using the information screen

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



Press ▲ or ▼ to select the **Next** and press **OK**. The **Set Timer** menu will appear.



- Press ▲ or ▼ to highlight **Timer Type** and press ◀ or ▶ to select **Recording**.
- Press ▲ or ▼ to highlight Recording Device and press ◀ or ▶ to select the connected USB HDD.
- Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections

Refer to step 6 on page 56 for details.

6 Press ▲ or ▼ to highlight Set Timer and press OK.

The **ORANGE LED** will be lit.

To check, edit or delete scheduling information

You can check, edit or delete scheduling information.

Press MENU / ◀▶ / ▲▶ to highlight TV
Programmes / Programme Timer icons and press
OK. Programme Timer 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 500 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 ▲ or ▼ on the **Programme Timer** screen to check the schedule.

To edit a schedule

Press ▲ or ▼ on the **Programme Timer** screen to select the title whose schedule you want to edit and press **OK**.

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

Press ▲ or ▼ to highlight **Set Timer** and press **OK**.

To delete a schedule

- Press ▲ or ▼ on the **Programme Timer** screen to select the title whose schedule you want to delete.
- Press the **RED** button.

Press ◀ or ▶ 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 **Set Timer** menu for each programming method.

To view a recorded programme

Display the **Library** screen and select the title of the recorded programme from the list.

Press MENU / ◀▶ / ▲▶ to highlight TV
Programmes / Library icons and press OK. Library
screen will appear.

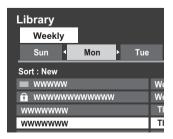


Press ▲ or ▼ to select the title you want to view.

The content of the title selected on the thumbnail screen is played.

To change the order in which the titles are listed, press the **BLUE** button to select **New** or **Old**.

To display the titles by week or by **Personal Mode**, press the **YELLOW** button to select **All**, **Weekly** or **Personal Grouping**.



Press ◀or ▶ to select a day tab or Personal Mode tab.

NOTE: If no titles have been registered to Personal Mode, Personal Grouping will be grayed out.

3 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.

To PLAY To STOP **II**/**II** To PAUSE/STEP To start Time Shift

Recording

To SKIP-BACK To REWIND

To FAST FORWARD To SKIP-FORWARD

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

- N Press **MENU** / ◀▶ / ▲ / ◀▶ to highlight **TV** Programmed / Programme Timers icons and press
- 2 Press \triangle or ∇ to select **Library** 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. a icon appears next to the title and the programme is protected.

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

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

To delete a recorded programme

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



Press ▲ or ▼ 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 **GREEN** button.

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

NOTE:

- A check mark will not be inserted against protected
- · Note that once deleted, a title cannot be restored.
- R Press the **RED** button.

Select Yes in the confirmation window and press OK.

All the titles with check marks will be deleted.

To register a recorded title to Personal Mode

- Select the title you want to register to **Personal Mode**.
- Press the **QUICK** button to display the **Personal Mode** registration menu.



Press ◀or ▶ to select the **Personal Mode** to which you want to register the title and press **OK**.

The title will be registered to the selected **Personal Mode**.

You can remove a title from the registered **Personal Mode** by selecting **None**.

To check the remaining 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.

Other useful functions (Time Shift Recording)

If you move away from the TV for a while, such as when the phone rings while you are watching TV, you can easily start recording and then catch up with the programme later.

Press IMI on the remote control while viewing DTV.

The screen will switch to the Pause image and recording will start automatically.

The recording time is the time set in **One Touch Recording** (see page 56).

Press ► (play).

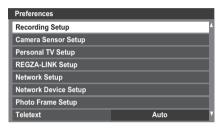
Catch-up viewing will start from where the programme was paused.

Recording Setup

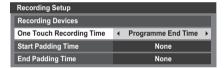
You can set your preferences for One Touch Recording or for schedulina recordina.

To set the recording time for One Touch Recording

- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀ ▶ to highlight Preferences icon and press OK.
- Press ▲ or ▼ to select **Recording Setup** and press OK.



Press ▲ or ▼ to select One Touch Recording Time.



Press ◀ or ▶ to select the recording time.

You can set the **Programme End Time** in 30-minute increments in the range of 30 minutes to 360 minutes.

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

- In the Recording Setup screen, press ▲ or ▼ to select
 Start Padding Time.
- Press ◀ or ▶ to select a time.

You can select from **None**, 1 minute, 3 minutes, 5 minutes and 10 minutes. Recording will start at the selected number of minutes prior to the recording start time.

- Press ▲ or ▼ to select End Padding Time.
- 4 Press ◀ or ▶ to select a time.

You can select from **None**, 1 minute, 3 minutes, 5 minutes and 10 minutes.

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

Setting USB HDD Energy-Saving Mode

- In the **Recording Setup** screen, press ▲ or ▼ to select **Recording Devices** and press **OK**.
- Press ▲ or ▼ to select **Device Energy Saving Mode**.



Press ◀or ► to select Normal or Energy Saving.

NOTE:

- When set to Energy Saving, it may take a while for the USB HDD to function.
- When set to Energy Saving, depending on the type of USB HDD, the USB HDD indicator lamp may not indicate standby status even when in standby status.

To change the name of the USB HDD

- In the **Recording Setup** screen, press ▲ or ▼ to select **Recording Devices** and press **OK**.
- Press ▲ or ▼ to select **Device List** and press **OK**. The **Device List** screen will appear.



Press the GREEN button.

Edit the desired name by using the software keyboard (page 53). The maximum number of characters is 10.

NOTE: If multiple USB HDD appear on the **Device List** screen in Step 2, press ▲ or ▼ to select the USB HDD whose name you want to change.

To perform a USB HDD operation test

Press the YELLOW button on the Device List screen.

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 register a USB HDD

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Press **OK** on the **Device List** screen

Press ◀or ▶ to select **Yes** in the confirmation window that will appear and press **OK**. USB HDD registration will start. Wait until registration ends.

NOTE

- If a USB HDD is re-registered, it will not be formatted.

To format a USB HDD

Press the **BLUE** button on the **Device List** screen.

Press ◀or ▶ to select **Yes** in the confirmation window that will appear and press **OK**. Formatting will start. Wait until formatting ends.

NOTE:

- If multiple USB HDD appear on the **Device List** screen, press
 ▲ or ▼ to select the USB HDD you want to format.
- When the USB HDD is formatted, all the data stored on the USB HDD will be deleted.

To disconnect a USB HDD

- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲ / ◀▶ to highlight Preferences icon and press OK.
- Press ▲ or ▼ to select **Recording Setup** and press OK.
- Press ▲ or ▼ to select **Recording Devices** and press **OK**. The **Device List** screen will appear.



Press the **RED** button.

Press ◀or ▶ to select Yes in the confirmation window that will appear and press OK. The Connected check mark will be removed. Disconnect the USB HDD.

NOTE: If multiple USB HDD appear on the **Device List** screen, press ▲ or ▼ to select the USB HDD you want to disconnect.

To confirm/delete Recording Information

If programmed recording is not performed correctly or some other error occurs, you can check the error content using Recording Information. Up to 64 Recording Information entries will be recorded and when the maximum is exceeded. entries will be deleted starting from the oldest. You can delete **Recording Information** after you have checked it.

Press QUICK to open the Quick Menu.

Press ▲ or ▼ to select **Recording Information** and press OK. The Recording Information screen will appear.



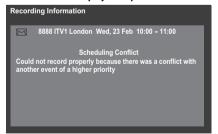
The recorded Recording Information list will appear. (Yellow) icon will appear next to unread Recording Information.

To check the content of Recording Information

In the **Recording Information** screen, press ▲ or ▼ to select the title you want to display.

2 Press OK. The content of Recording Information will appear.

Display Example



When you have checked the content, press BACK. The screen will return to the previous screen.

To delete Recording Information

In the **Recording Information** screen, press ▲ or ▼ to select the Recording Information you want to delete and press OK.

2 Press the **RED** button

> Select Yes in the confirmation window that will appear and press OK.

The selected **Recording Information** 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 61), 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.

• When **End Padding Time** is set for the first programmed recording (see page 61), depending on how far the scheduling times overlap, the End Padding Time may be ignored and recording of the next scheduled programme may start. As priority is given to the time set in the **Set Timer** menu over the Padding Time, recording will automatically be triggered when the next scheduled programme start time is reached during End Padding Time.

Camera Sensor Settings

The Camera Sensor can detect a person's face or movement and identify individuals by their registered faces. The screen mute and the standby mode functions by the face detection and motion detection functions of the Camera Sensor operate, and power consumption is saved as a result.

- In the Preference menu, press ▲ or ▼ to select Camera Sensor Setup and press OK.
- Press ▲ or ▼ to select Camera Sensor and press ◀ or ▶ to select On (to activate the following settings).
- Press ▲ or ▼ to select Camera Sensor Mode and press ◀ or ▶ to select Normal or Energy Saving.
 - Normal

If the Camera doesn't detect the person for 60 seconds, the screen brightness decreases. In addition, after the time set with **Time until Picture Off**, the picture disappears. In addition, after the time set with **Time until Standby**, the TV turns off (standby mode).

Energy Saving

If the Camera doesn't detect the person for 60 seconds, after the time set with **Time until Picture Off**, the picture disappears. In addition, after the time set with **Time until Standby**, the TV turns off (standby mode).

Press ▲ or ▼ to select Time until Picture Off and press ◀ or ▶ to select 10min, Test (5sec.)....60min. (5min.intervals).

NOTE: If the **Camera Sensor Mode** is in **Energy Saving** mode, this feature will be grayed out.

- Press ▲ or ▼ to select **Time until Standby** and press ◀ or ▶ to select **5min....60min**. (5min.intervals).
- Press ▲ or ▼ to select Test Sensor and press OK to display Test Sensor screen.

The Camera will detect Face or Motion. The detected icon will be highlighted.



If the Camera doesn't detect the person easily, press

✓ or ➤ to select the Gamma Adjustment options

Auto, 1, 2, 3, 4 or 5 watching the camera image on

screen until the camera detect the person.

Using Toshiba Places

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

NOTE: You need to configure a home network before using this feature (see page 16).





Press ▲▼◀▶ to select the desired place and press OK.

NOTE:

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

Using YouTube™

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

This TV allows you to view YouTube content.

NOTE:

- You need to configure a home network before using this feature (see page 16).
- If Network Lock is set to On, it will be necessary to enter your four-digit PIN code in order to access network features (see page 83).



Press MENU / ▲ / ◀ ▶ to highlight Connected TV / YouTube icons and press OK.

The YouTube top page will appear.



Press ▲▼◀► to select the file you want to view, and press **OK**.

To close YouTube:



Press EXIT.

NOTE:

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

Using the Function Menu

The Function Menu provides easy access to functions that are commonly used.

Press the **BLUE** button while displaying YouTube.
The Function menu window will appear.



Press ◀or ▶ to select the desired icon and press **OK**.

Item	Description			
Back	Returns to the previous page.			
Forward	Moves to the forward page.			
Reload/ Abort	Updates the displayed page. Aborts update (× is displayed while reading, and ⁵ is displayed in other case.)			
Home	Returns to the top page of YouTube.			
Pointer	Switches the pointer On/Off or drag mode.			
Menu	Switches the frame or sets various settings.			

Switching the pointer

The tool that operates the screen can be changed to pointer or drag mode.

- From the Function menu, press ◀ or ▶ to select Pointer, and then press OK.
- If you select \(\overline{\capsta}\), see "To use the Pointer: ON:" on this page. If you select \(\sigma^{(1)}\), see "To use the Drag Mode:" on this page.

To use the Pointer: ON:

- Press ▲ or ▼ to select Pointer: ON and press OK.
 - R will appear.
- Press $\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$ to the place where $\c \c$ changes to $\c \c \c \c \c$ and then press **OK**.

NOTE: When **Pointer: OFF** is selected and ▲▼◀▶ is pressed, the highlight moves to linked areas.

To use the Drag Mode:

- Press ▲ or ▼ to select Pointer: ON and press OK.
- Press the **BLUE** button.
- From the Function menu, press ◀or ▶ to select **Pointer**, and then press **OK**.
- Press ▲ or ▼ to select **Drag Mode** and press **OK**.
 - 🔊 will appear.
- Press **OK**, and then (changes to ().
- Press ▲▼◀▶ to move the selected item in the desired place.

Switching the frame

- From the Function menu, press ◀ or ▶ to select Menu, and then press OK.
- Press ◀ or ▶ to select Page Tasks.
- Highlight Switch Frames and press OK.

Setting the view feature

- From the Function menu, press ◀or ▶ to select Menu, and then press OK.
- 2 Press ◀ or ▶ to select **View**.
- Press \triangle or ∇ to select the desired item and press **OK**.
- Press ▲ or ▼ to select the desired setting and press OK.

ltem	Settings
Display Mode	Normal: Displays YouTube page with the size as it is. Just-Fit Rendering: Displays YouTube page at a size that has been adjusted to precisely fit the width of your TV.
Text Size	Changes the font size of the screen. Select from Largest, Large, Medium, Small or Smallest. NOTE: This font size is effective only for the page.
Advanced Settings	See the next column.
Page Information	Displays the information of the page you are viewing.
Server Certificates	Displays the server certification.

If you select Advanced Settings:

- Press ▲▼◀► to select the setting items, and press
 OK. A check will appear in the box. To remove the check, press OK again.
- Press ▲▼◀▶ to select OK field and press **OK**.

Item	Description
Image	Sets display/non-display of images.
Table	Sets effect/non-effect of tables.
CSS	Sets effect/non-effect of CSS.
Pop-up window	Sets effect/non-effect of pop-up windows.
Animation	Sets display/non-display of animations.
JavaScript	Sets effect/non-effect of JavaScript.
Word wrap	Sets effect/non-effect of Word Wrap. If Word Wrap is enabled, a word not finished at the end of a line is shifted to the next line.
Rapid- Render	Sets effect/non-effect of Rapid-Render. If Rapid-Render is enabled, texts and links are displayed first, and the images and the tables, etc. are displayed afterward. The highlight can be moved with the text and the link displayed.

Setting other features

- From the Function menu, press ◀ or ▶ to select Menu, and then press OK.
- Press ◀or ▶ to select **Settings**.
- Press \triangle or ∇ to select the desired item and press **OK**.
- Press ▲ or ▼ to select the desired setting and press OK.

Item	Settings
Security	When jumping from a protected page to an unprotected page, the message is displayed when the check is applied to Notify of secure/non-secure page changes. Apply the check to select SSL version from SSL Version to use (SSL2.0, SSL3.0, TSL1.0). A content confirmation of the certification and a setting effect/non-effect can be done in Root Certificates and CA Certificates shown below.
Cookies	Accept all: Cookie is received, and it records in this TV. Reject all: Cookie is not received. Prompt before accepting: When Cookie is received, a message window will be displayed.
Delete Cookies	Deletes all recorded Cookies.
Cache	Use cache: When the check is applied to this, cache is used. Delete All Cache Data: Deletes all the cache data preserved in the television.
Browser Information	Displays the information on a browser.

NOTE:

- Cookie is the technical information that a website leaves in this TV so that the website will recognize you when you use it again.
- Cache is a system used to shorten the display time by checking the past data preserved in this television when a page that you viewed before is seen again.

To confirm Root Certificates or CA Certificates:

- Press ▲ or ▼ to select Security in step 3 in Setting other features.
- Press ▲▼◀▶ to select Root Certificates or CA Certificates and press OK.
- 3 Press ▲ or ▼ to select the desired certificate.
 - When OK is pressed, a detailed information window will appear.
 - When the BLUE button is pressed, Disable or Enable bar will appear. It changes whenever BLUE button is pressed.
- 4 Press BACK.

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 16).





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

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

NOTE:

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

Using the Media Player

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

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

Terminology:

DMP: DLNA CERTIFIED™ Player

DMS: DLNA CERTIFIED™ Server

DMR: DLNA CERTIFIED™ Renderer

DMC: DLNA CERTIFIED™ 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 display 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 DMR, set Media Renderer to On (see "Media Renderer" on page 54).

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.
- · A USB hub can not be used.

File system: FAT16 and FAT32

Maximum memory size: Unlimited

DLNA CERTIFIED™ Server: Your PC (for example)

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

Basic operation

Using Media Player with USB

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

To change the Auto Start setting:

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



Auto Start:

- Insert USB device into the USB socket on the left side of the TV. A prompt will appear.
- Press ◀or ▶ to select **Yes**, and then press **OK**.
- Press ▲ or ▼ to select **Photo**, **Movie**, or **Music** and press **OK**.

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

Manual Start:

- Insert USB device into the USB socket on the left side of the TV
- Press MENU / ◀▶ to highlight Media Player icon.
- Press ▲ / ◀▶ to highlight **Photo**, **Movie** or **Music** icon and press **OK**. The contents list will appear.

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.

To close the Media Player:

Press **EXIT**.

Using the Media Player with a DLNA CERTIFIED™ Server

You need to configure a home network before using this feature (see page 16).

- Press MENU / ◀▶ to highlight Media Player icon.
- Press ▲ / ◀▶ to highlight Photo, Movie, or Music icon and press OK. The thumbnail (for Photo) or list of files (for Movie and Music) will appear.

NOTE: If there is more than one media server on the network, a list of all media servers will be displayed. Highlight the server you want to use, and press **OK**.

Press ▲ or ▼ to select a DMS if the selection window is displayed.

To select a file in the list of contents:

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

To close the Media Player:

Press EXIT.

To display the device information:

- Press QUICK to open the Quick Menu in list mode or Multi View mode
- Press ▲ or ▼ to select **Device Information**.

Setting DLNA CERTIFIED™ Server waking up:

You only need to complete the Media Server Setup if you wish to use the "Wake-on-LAN" feature.

- Press MENU / | | | to highlight Media
 Player / Media Player Setup icons and press OK.
- Press ▲ or ▼ to select **Media Server Setup** and press **OK**. A list of currently available DMSs will appear.
- Press ▲ or ▼ to select the desired device, and press
 OK. A check will appear in the box. To remove the check, press OK again.
- Press ▶ to highlight **Done**, and then press **OK** to save.

NOTE:

- · Up to 8 DMSs can be selected.
- Even if the device checked is powered off, it will be displayed but grayed out in the **Select Device** window.
 When **OK** is pressed on a highlighted grayed out item, a confirmation of Wake-on-LAN is displayed. The TV tries to wake up the DMS if **Yes** is pressed. The Server will start if it supports Wake-on-LAN feature.
- When some DMSs are connected, it may take time until the list is displayed. The list may be refreshed by the following operation.
 - The device selection window is closed once and it is displayed again.
 - The **RED** button is pressed.

USB 2 Port Setup (if available)

- Press MENU / ◀▶ to highlight Setup icon.
- Press ▲/◀▶ to highlight System Setup icon and press OK.
- Press ▲ or ▼ to select USB 2 Port Setup and press ◀ or ▶ to select Recorder or Media Player.

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

There are three types of viewing modes.

Multi View

a

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

Photo list example



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

- Press ▲▼ ◀▶ to move the highlight in one window. If all of the photos will not fit in one screen, when pressing ◀ at the top left thumbnail, the screen will move to the previous page. Conversely, when pressing ▶ at the bottom right thumbnail, the screen will move to the next page.
 - P^ P✓ buttons can be used to page up/down the photo list when there are more photos than will fit onto one screen. When the P^ P✓ buttons are pressed, the highlight shall be on the photo at the top left of Previous/Next list.
- 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.

NOTE: When the TV is used as a DMR, this feature is not available.

Single View

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

- Press ► to view the next photo. Press ◀ to view the previous photo.
- Press ▲ to rotate the image 90° clockwise. Press ▼ to rotate the image 90° counterclockwise.
- Press (i+) to display file status information (file number, photo title, date and time taken, resolution etc.).

NOTE:

- The information may not be correctly displayed depending on the content, DMC or DMS.
- · You can not rotate in 3D (2D to 3D) mode.

Slide Show

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

- To start slideshow, press **OK** in the Single View mode.
- Press ◀or ▶ to view the previous/next photo.
- Press ▲ or ▼ to rotate the photo.
- 4 Press (i+) to display file status information.

To set Interval Time and Repeat settings:

- Press **QUICK** to open the **Quick Menu** while in the Single View mode or Slide Show mode.
- Press ▲ or ▼ to select either Interval Time or Repeat.
- Press ◀or ▶ to adjust the setting and press **OK**.

To set Background Music

- Press **QUICK** to open the **Quick Menu** while in the Slide Show mode.
- Press ▼ to select **Select Music** and press **OK**.
- Press ▲ or ▼ to select **Background Music** and press OK.
- Press ▲ or ▼ to select Background Music and press ◀ or ▶ to select On.
- Select a music file.

NOTE:

- The music must be selected from the same media (USB) device or DMS from which the picture files will be played.
- This feature is not available when there is no music that can be selected.

To zoom in/out photos

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

RED button: $x1 \rightarrow x2 \rightarrow x4 \rightarrow x8 \rightarrow x16$ zoom

GREEN button: $x16 \rightarrow x8 \rightarrow x4 \rightarrow x2 \rightarrow x1$ zoom

BACK button: Normal playback

▲ ▼ ◀ ▶ buttons: Vertical or Horizontal scrolling

To set the shuffle mode (USB only):

- Press **QUICK** to open the **Quick Menu** in list mode.
- Press ▲ or ▼ to select Shuffle.
- Press ◀ or ▶ to select **On** or **Off**.

To sort the folders and files

- Press QUICK to open the Quick Menu from Multi View mode
- Press ▲ or ▼ to select **Sort**.
- Press ◀ or ▶ to select **Title / File Name**, **New** or **Old** to set the sorting rule.

Item	Description
Title (DMS)	File sorting rules: 1. Unicode priority 2. (0, 1,, 9), capital alphabet (A, B,, Z), small alphabet (a, b,, z) 3. Increasing order
File Name (USB)	File sorting rules: 1. Unicode priority 2. (0, 1,, 9), capital alphabet (A, B,, Z), small alphabet (a, b,, z) 3. Increasing order
New	From new to old according to the date and time when the picture was taken.
Old	From old to new according to the date and time when the picture was taken.

NOTE: Sorting may not be supported by some DMSs.

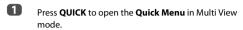
Selecting the Playback Mode

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

Select the playback mode from the Quick Menu or switch playback modes using the **3D** button on the remote control.

The current **Playback Mode** is displayed at the top left of the list mode.

To select the playback mode from the Quick Menu





2D Mode

All photos are displayed in 2D.

3D Mode 1

3D photos are displayed in 3D and 2D photos in 2D.

3D Mode 2

All photos are displayed in 3D. 2D photos are converted and displayed in 3D, and 3D photos are displayed in 3D.

To switch playback modes using the remote control

Press **3D** while in **Single View** mode.

The mode switches between **2D Mode**, **3D Mode 1** and **3D Mode 2** each time **3D** is pressed.

To display the device information

- Press **QUICK** to open the **Quick Menu** from Multi View mode.
- Press ▲ or ▼ to select **Device Information** and press **OK**.

NOTE: When the photos on the USB device are used, or the TV is used as a DMR, this feature is not available.

To close the Photo Viewer

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

File Compatibility

See page 106.

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

You can select movies from a list of available files.

Movie list example



- Press ▲ or ▼ to select a file or folder. P ➤ buttons can be used to page up/down the movie list when there are more files than will fit onto one screen.
- 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 list.
- Depending on the file size, it may take some time for playback to begin.

During playback:

• Press II/II► to pause.

You can move to the desired replay position by pressing ◀ or ▶ during PAUSE.

PAUSE and operations during PAUSE may not be available depending on the contents, DMC or DMS.

- To resume normal playback, press ➤ (play).
- To play in fast reverse or fast forward directions, press ◀◀ or ▶▶ during playback. Each time you press the ◀◀ or ▶▶, the playback speed will change.

PAUSE and operations during PAUSE may not be available depending on the contents, DMC or DMS.

- To locate a specific file, press or ■ repeatedly.
- 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, DMC or DMS.
- During playback, you can adjust the Picture, Picture Size and Sound menu functions from the **Quick Menu**.

To select subtitle and audio languages

- Press **SUBTITLE** repeatedly to select your preferred subtitle language.
- Press \(\infty\) [/ repeatedly to select your preferred audio language.

NOTE: This feature may not be available depending on the contents.

To set the repeat mode

1 Press QUICK to open the Quick Menu.

Press **⋖**or **>** 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: When the TV is used as a DMR, this feature is not available.

To sort the folders and files

- Press QUICK to open the Quick Menu in list mode.
- Press ▲ or ▼ to select **Sort**.
- Press ◀ or ▶ to select **Title / File Name**, **New** or **Old** to set the sorting rule.

Item	Description
Title (DMS)	File sorting rules: 1. Unicode priority 2. (0, 1,, 9), capital alphabet (A, B,,Z), small alphabet (a, b,, z) 3. Increasing order
File Name (USB)	File sorting rules: 1. Unicode priority 2. (0, 1,, 9), alphabet (A, B,,Z) 3. Increasing order
New	From new to old according to the date and time when the contents were updated.
Old	From old to new according to the date and time when the contents were updated.

NOTE: Sorting may not be supported by some DMSs.

To display the device information

- Press **QUICK** to open the **Quick Menu** in list mode.
- Press ▲ or ▼ to select **Device Information** and press **OK**.

NOTE: When movies on a USB device are used, or the TV is used as a DMR, this feature is not available.

To close the Movie Viewer

Press EXIT.

File Compatibility

See page 106.

To register your TV to a DivX® account

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

- In the **Media Player Setup** menu, press ▲ or ▼ to select **DivX**® **VOD** and press **OK**.
- Press ▲ or ▼ to select **DivX* VOD Registration** and press **OK**.

DivX® VOD
DivX® VOD Registration
DivX® VOD Deactivation

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

http://vod.divx.com

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

To deactivate your device

- In step 2 above, highlight DivX® VOD Deactivation, 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 deactivation code. For details on registration, please visit the DivX° website at

http://vod.divx.com

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

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

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

To playback DivX Plus HD content:

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

During playback, press ► 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, 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 i is pressed twice in succession at the first chapter, stop playing the current content and skip to the beginning of the previous content.

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

If the content has Authored Chapters, ◄ / ► are using for Authored Chapters.

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

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 each time you press ▲ or ▼.

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

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

You can listen to music from a list of available files.

Music list example



- Press ▲ or ▼ to select a file or folder. P^ P buttons can be used to page up/down the music list when there are more files than will fit onto one screen.
- 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: OK takes to you full screen playback. Playback in preview start without pressing **OK**. Moving cursor up/down plays music.

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 Ouick Menu.

During playback in full screen:

- Press IIII to pause.
- To resume normal playback, press ➤ (play).

PAUSE and operations during PAUSE may not be available depending on the contents, DMC or DMS.

To play in fast reverse or fast forward directions, press ◀
 or ▶▶. Each time you press ◀◀ or ▶▶, the playback speed will change.

PAUSE and operations during PAUSE may not be available depending on the contents, DMC or DMS.

To set the repeat mode:

- Press **QUICK** to open the **Quick Menu** in list mode.
- Press ▲ or ▼ to select Repeat.
- B Press ◀ or ▶ to select **Off. All** or 1.

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

4 Press BACK.

NOTE: When the TV is used as a DMR, this feature is not available.

To set the shuffle mode (USB only):

- Press **QUICK** to open the **Quick Menu** in list mode.
- Press ▲ or ▼ to select Shuffle.
- B Press ◀ or ▶ to select **On** or **Off**

To sort the folders and files

- Press QUICK to open the Quick Menu in list mode.
- Press ▲ or ▼ to select **Sort**.
- Press ◀ or ▶ to select **Title / File Name**, **New** or **Old** to set the sorting rule.

Item	Description
Title (DMS)	File sorting rules: 1. Unicode priority 2. (0, 1,, 9), alphabet (A, B,,Z) 3. Increasing order
File Name (USB)	File sorting rules: 1. Unicode priority 2. (0, 1,, 9), alphabet (A, B,,Z) 3. Increasing order
New	From new to old according to the date and time when the contents were updated.
Old	From old to new according to the date and time when the contents were updated.

NOTE: Sorting may not be supported by some DMSs.

To display the device information

- Press QUICK to open the Quick Menu in list mode.
- Press ▲ or ▼ to select **Device Information** and press

NOTE: When music files on a USB device are used, or the TV is used as a DMR, this feature is not available.

To display the file status information

- Press j+ 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 content, DMC or DMS.

To close the Music Player:

Press EXIT.

File Compatibility

See page 106.

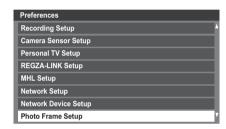
Using the Photo Frame feature

You can use the TV screen as a digital photo frame. One image (pre-installed or user-installed) can be displayed. Date info can also be superimposed. If desired.

You can overwrite the photo file with a file from a USB storage device or DLNA CERTIFIED™ Server.

To open Photo Frame

- Press MENU / **\|** / **\|** / **\|** to highlight **Setup** / **Preferences** icons and press **OK**.
- Press ▲ or ▼ to select **Photo Frame Setup** and press **OK**.



The preview screen will appear.



Press to select **Start** and press **OK** to open **Photo Frame**.



To open from the Quick Menu

- Press QUICK to open the Quick Menu.
- Press ▲ or ▼ to select Photo Frame and press OK to open Photo Frame.

To close Photo Frame:

Press **EXIT**.

Setting the features

In the preview screen, you can set various settings for Photo Frame.

Photo Select

In the **Photo Frame Setup** menu, press ▲ or ▼ to select **Photo Select** and press **OK**.



If the device selection screen appears, press ▲ or ▼ to select the appropriate device and press OK.

Press ▲ ▼ ◀ ► to select the photo you want to copy from the USB storage device or DLNA CERTIFIED™ server to the TV's flash memory, and then press **OK**.



Photo Edit

- Press ▲ or ▼ to select **Photo Edit** and press **OK**.
- Press ▲ or ▼ to select Rotate or Delete.



- 3 Set the following items as required.
 - **Rotate** Press **OK** to rotate the image 90°clockwise.
 - Delete Press OK. A confirmation window will appear. Press ◀ or ► to select Yes, and then press OK.
- 4 Press BACK.

Settings

- Press ▲ or ▼ to select Settings and press OK.
- Press ▲ or ▼ to select Clock, Position or Auto Power Off.



- Set the following items as required.
 - Clock Press

 or

 to select Off, Digital Clock,
 Analogue Clock or Analogue + Digital.
 - Position Press ◀ or ▶ to select Left or Right.
 - Auto Power Off Press ◀ or ▶ to select Off, 00:30, 01:00, 02:00, 04:00, 06:00 or 12:00.

If the Photo Frame window is left open, the TV will automatically turn off after the set length of time (maximum 12 hours).

- Press BACK.
- Select **Start** and press **OK**.



NOTE:

- The clock display will only appear when time from a digital broadcast is available.
- The photo and clock displays are moved by 4 dots every 5 minutes to minimize the risk of screen burn-in.
- The pre-installed photo file is stored in the TV's flash memory before shipment.
- Picture Size selection (Normal/ Dot by Dot) is available by pressing the QUICK button. However when the resolution is 1920 x 1080 or above, the Picture Size selection menu will be grayed out.

Other features

Panel Lock

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



Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup / Preferences icons and press OK.



When Panel Lock is On, a reminder will appear when the buttons on the television are pressed. If the standby button is pressed, the television will switch off and can only be brought out of standby by using the remote control.

The timers

Programme Timers - digital only

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

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight TV
 Programmes / Programme Timers icons and press
 OK.
- Press ▼ to select Programme Timers and press OK.
- Press ▼ if necessary to select an open timer position, then press OK. The Set Timer menu will now appear on screen.
- Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◀ and ▶ to make selections.

Set Timer	10:50 Tue, 26 Apr
Timer Type	◆ Reminder ◆
Channel	30 CABC Channel
Date	Tue, 26 Apr 2011
Start Time	10:51
End Time	11:51
Repeat	Once
Recording Device	
Protect	Off
Personal Grouping	None
Subtitle	Off
Set Timer	Delete Timer
	♠ Fdit

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

The ORANGE/RED programme timer indicator on the front of the television will be lit (see page 101 for details).

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

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

On Timer

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

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Function / On Timer icons and press OK.
- Press ▲ or ▼ to select Enable On Timer and press ◀ or ▶ to select On.



- Press ▼ to select Enable DTV Clock, and then press ◀ or ▶ to select On or Off.
- Press ▲ or ▼ to go through the list adding the details of the On Timer by using the number buttons and ◀ 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, EXT 1, EXT 2, EXT 3, HDMI 1, HDMI 2, HDMI 3, HDMI 4 or PC). Channel: Set the channel that will be tuned when the television turns on.

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

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

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

Press ▲ or ▼ to highlight Done and press OK.

To cancel the On Timer

- In the **On Timer** menu, select **Enable On Timer**.
- Press ◀ or ▶ to select **Off**.

Sleep Timer

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

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Function / Sleep Timer icons 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 MENU / ◀▶ / ▲ / ◀▶ to highlight Setup / Preferences icons and press OK.
- Press ▲ or ▼ to select Energy Saving Settings and press OK.
- Press ▲ or ▼ to select Automatic Power Down.
- Press ◀ or ▶ to select **On** or **Off**, and press **OK**.

NOTE:

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

No Signal Power Down

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

- Low signal strength of analog channel (no signal detection)
- Only Audio L/R is connected to external input to listen to music through the TV speakers.
- In the Energy Saving Settings menu, press ▲ or ▼ to select No Signal Power Down and press OK.
- Press ▲ or ▼ to select the item you want to change and press ◀ or ▶ 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 and Programme Guide

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

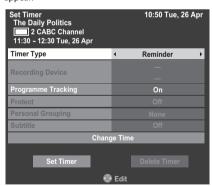
Information

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

Display Example



- Press ▲ or ▼ to select the "Now", "Next" or "Also" information guide.
- To record the next scheduled programme, select "Next" and press OK. The Set 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** and **Also** fields of the information screen. A check mark will appear if the timer is a Reminder Timer.

Press ▼ to select **Also**. Details of programmes that have started on other channels will be provided. Use ◀ or ▶ to change the display contents.

To display More Information

- Press QUICK to open the Quick Menu.
- Press ▼ to highlight More Information and press OK.

On-screen Information icons

		1
	lcon	Description
Service info		Service type
		(TV, Radio, Text)
	-•>	Skip
Audio info	0	Mono
	ω	Stereo
	•0	Dual mono
	8	Multichannel
	ΧD	Dolby Digital
	™ D+	Dolby Digital+
	HE-AAC	Audio Coding
	AD	Audio Description
Audio/Subtitle info	Í	For Hard of Hearing
Recording info	●REC M	Recording + Service info
3D info	3D	Frame Packing
	3D→2D 2D→3D	Side by Side Top and Bottom
D I M I .	20→30	Personal Mode
Personal Mode info	•	(Personal Name)
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
		Teletext
		Subtitle (Single, Multi)
	四四	Multi-audio track
	0, 4 – 18	Parental rating
	W	Encrypted
Timer info	4	Recording
	✓	Reminder

Guide

1

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.

Thu6				1	0:50 Tue, 6 Apr
TV	◄ 18:00	18:30	19:00	19:30	0 20:00 ▶
6 M6	09 LES SIM	ES SIM	. OBTOP I	MODEL	
9 W9	LUI SUMM	ERLAND 53	SUMMERLAND		LES SIM
11 NT1	Nicky La	a 🗗 Street fig	ght 🖭 Drago	n B 🔯 Dı	ragon B 🖽 K 2000
31 PARIS PREMIERE	05 MA SOR	CIE 📴 HAF	PPY DAYS 🔢 I	IAPPY DAY	r'S
34 AB1	00 Evamag 2	21 jump stree	l 12 Jerry Spr	inger Shov	w 🛂 City guys 🚻 L
800 FlowerGd 6Mbs					
801 FlowerGd 4Mbs					
802 FlowerGd 2Mbs					
804 Codec 4:3					
806 ITV1					
807 ITV3					
808 ITV2					
809 ITV4					

You can switch the time scale to 1.25 or 2.5 hours by pressing the **GREEN** button.

NOTE: Channels are displayed in groups by service type (TV, Radio, Text). Pressing the **TV** button will switch the service type.

- Press ◀or ➤ 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 ▲ and ▼ to scroll up and down the channel list. As channels are selected, details of the programme currently being broadcast will appear. Press ◀ or ▶ to view information for future programmes.
- 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.

NOTE: In order for the recording operation to work properly, the media recorder must be set to the same time as the TV. Regarding the process for recording, please refer to the owner's manual of the recording equipment.

Press P to advance to the next page, or press P to go back to the previous page.

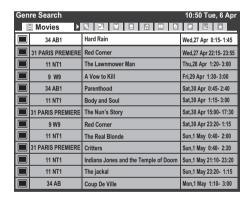
Genre selection/searching

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

- In the Guide screen, press QUICK.
- Press ▲ or ▼ 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.
- Press the YELLOW button to access the Genre Search screen.



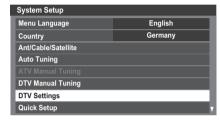
- Press ◀ or ▶ to select the genre. Programmes listed will change for the new genre. Press ▲ or ▼ to highlight a particular programme.
- When a current programme is selected, pressing **OK** will tune to that programme. When a future programme is selected, pressing **OK** will open the **Set Timer** menu.
- For information on a highlighted programme, press (i+).
- To exit the **Genre Search** and go back to the Guide screen, press the **YELLOW** button.

Digital settings – parental control

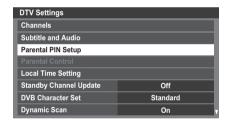
In order to prevent viewing of unsuitable films and programmes, channels and menus can be locked in digital mode. These can then only be accessed with a security code PIN.

Parental PIN Setup

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup / System Setup icons and press OK.
- Press ▲ or ▼ to select DTV Settings and press OK.



Press ▲ or ▼ to highlight 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 level.

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

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.

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



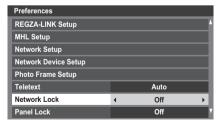
To view blocked programmes, enter the PIN. To reactivate the Parental Control, turn the TV off and then on again.

Network Lock

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

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

- Press ▲ or ▼to select Network Lock.



Press ◀ or ▶ to select On.

To unlock the Network:

Select **Off** in step 3 above.

Digital settings – Channel Options

Selecting favourite channels

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

- Select a channel you want to add to your favourite list.
- Press QUICK to open the Quick Menu.
- Press ▼ to select Channel Options and press OK.
- Press ➤ repeatedly to select the favourite list (Fav.1-4).



- 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 Lists

- Press LIST to display Channel List.
- Press ◀or ▶ to select Favourites 1-4. The number of favourites available depends on how many lists have been created.

Chanr	Channel List				
•	Favourites 1				
	6	M6			
	9	W9			
	11	NT1			
	31	PARIS PREMIERE			
	34	AB1			
	51	ITV1			

Press ▲ or ▼ to highlight a channel and press OK to watch

Skip channels

This feature allows you to set channels that will be skipped when $P \checkmark$ or $P \land$ are used to tune.

- Select the channel you want to skip in your channel list.
- From 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
- From the Quick Menu, press ▼ to select Channel Options and press OK.
- Press ▶ repeatedly to highlight the lock (♠) box.
- Press **OK** to select. A tick will appear in the box.

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

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

Digital settings – other settings

Subtitles

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

- In the **DTV Settings** menu, press ▲ or ▼ to select **Subtitle and Audio** and press **OK**.
- Press ▼ to select **Subtitle Display** and use ◀ or ▶ to select **On** or **Off**.

Subtitle and Audio				
4	Off	+		
	Normal			
	English			
	English			
	Normal			
	English			
	English			
	1	Normal English English Normal English		

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

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

Audio languages

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

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

If more than one soundtrack is available, use the \(\) I/\(\) button to select between them.

Common Interface

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

- Insert the CAM and card into the Common Interface Slot, following the instructions provided with the CAM. A box will appear on screen to confirm that the CAM has been inserted.
- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup / System Setup icons and press OK.
- Press ▲ or ▼ to select **DTV Settings** and press **OK**.
- Press ▲ or ▼ to select Common Interface and press OK.
- Details of the CAM should now be available.

NOTE:

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

Software Upgrade and Licences

Auto Upgrade

When **Auto Upgrade** is set to **On**, the television will automatically upgrade while in standby if new software is available.

- In the **System Setup** menu, press ▲ or ▼ to select **Software Upgrade** and press **OK**.
- Press ▲ or ▼ to select **Over-the-air Upgrade** and press **OK**.
- Press ▲ or ▼ to select Auto Upgrade.
- 4 Use ◀or ▶ to select **On** or **Off**.

Searching for New Software

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

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

SEARCHING FOR NEW SOFTWARE
Searching for a new software upgrade for this TV.
Searching

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

Network Upgrade

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

Before downloading software:

Configure your TV to connect to the Internet.

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

- In the **System Setup** menu, press ▲ or ▼ to select **Software Upgrade** and press **OK**.
- Press ▲ or ▼ to select **Network Upgrade** and press **OK**.

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

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 System Setup menu, press ▲ or ▼ to select Software Licences and press OK.

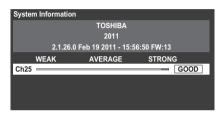
A screen will appear displaying all the licensing information required for the televisions software.

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 System Setup menu, press ▲ or ▼ to select System Information.
- Press **OK** to display the **System Information**.



- For information about the signal quality of a particular multiplex, press ▲ or ▼ 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 **System Setup** menu, press ▲ or ▼ 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 20.)

PC Settings

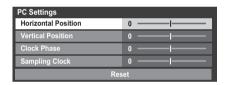
Horizontal and Vertical Position

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 MENU / \(\Lambda \) / \(\Lambda \) to highlight Setup / Preferences icons and press OK.
- Press ▲ or ▼ to select **Display Settings** and press **OK**.
- Press ▲ or ▼ to select PC Settings and press OK.



Press ▲ or ▼ to select an option and press ◀ or ▶ 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 ▲ or ▼ to select **PC Settings** and press **OK**.
- Press ▲ or ▼ to select Clock Phase.
- Press ◀ or ▶ to adjust until the picture clears.

Sampling Clock

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

- In the **Display Settings** menu, press ▲ or ▼ to select **PC Settings** and press **OK**.
- Press ▲ or ▼ to select Sampling Clock.
- Press ◀or ▶ to adjust until the picture clears.

Reset

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

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

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

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

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

Input selection and AV connections

See page 12 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 \odot until the picture from connected equipment is shown.

Input selection

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

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

Pressing ⊕ on the remote control

Inputs
TV

① 1
② 2
② 3
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC

Pressing $\operatorname{\mathfrak{D}}$ on the TV

DTV Ant (or Cable) TV *
DIV Ant (or Cable) IV
DTV Ant (or Cable) Radio *
DTV Ant (or Cable) Text *
DTV Sat TV *
DTV Sat Radio *
DTV Sat Text *
⊕ 1
- ⊙ 2
→ 3
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC
ATV

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

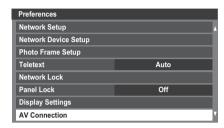
HDMI® displays equipment connected to *Input HDMI* on the back or side of the television.

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

External input skip

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

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup / Preferences icons and press OK.
- Press ▲ or ▼ to select AV Connection.



- Press **OK** to display the **AV Connection** menu.
- Press ▲ or ▼ to highlight Input Labeling and press
 OK.



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

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

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

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

Labeling video input sources

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

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup / Preferences icons and press OK.
- Press ▲ or ▼ to select AV Connection and press OK.
- Press ▲ or ▼ to select Input Labeling and press OK.

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

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

NOTE: When User Input is selected by pressing the GREEN button, the Software Keyboard window will appear. Input the desired characters (10 characters or less) by using the Software Keyboard (see page 53) or using the number buttons for a number input. To save your settings, press the BLUE button.

Repeat step 4 for other video inputs.

PC Audio

In order to receive sound from a connected PC, plug the audio cable into the back of the television (as shown in the 'Connecting a computer' section), and then use the **PC/HDMI 3 Audio** settina.

- In the Preferences menu, press ▲ or ▼ to select AV Connection and press OK.
- Press ▲ or ▼ to select PC/HDMI 3 Audio and press ◀ or ▶ to select the PC option.

NOTE: Selecting the **PC** option will force HDMI 3 Audio to Digital mode.

Side Shared Audio

The AUDIO terminals for the COMPONENT VIDEO INPUT (EXT 2) and VIDEO INPUT (EXT 3) are shared.

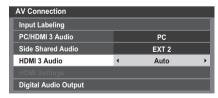
Select an appropriate option (EXT 2 or EXT 3) for the input that you are using.

- In the **Preferences** menu, press ▲ or ▼ to select **AV Connection** and press **OK**.
- Press ▲ or ▼ to highlight Side Shared Audio, and then press ◀ or ▶ to select EXT 2 or EXT 3.

HDMI 3 Audio

If the connected HDMI source does not support digital audio, plug the audio cable into **PC/HDMI 3 (AUDIO)** on the back of the television (as shown in the 'Connecting an HDMI* or DVI device to the HDMI input' section on page 13), then use the **HDMI 3 Audio** setting.

- In the Preferences menu, press ▲ or ▼ to select AV Connection and press OK.
- Press ▲ or ▼ to select HDMI 3 Audio and press ◀ or ► to select Auto or Analogue.



If the sound is absent, try selecting a different setting.

NOTE: HDMI 3 supports digital and analogue sound, HDMI 1, HDMI 2 and HDMI 4 are digital sound only.

Certain DVD disk formats may not output from this TV (32/44.1/48kHz and 16/20/24 bits are acceptable).

HDMI Settings

Some early HDMI equipment may not work properly with your HDMI TV. Please try setting the **Enable Content Type** and **INSTAPORT™** options to **Off**. Adjusting these settings should allow your early HDMI source to operate properly with your television

- In the **Preferences** menu, press ▲ or ▼ to select **AV**Connection and press **OK**.
- Press ▲ or ▼ to select **HDMI Settings** and press **OK**.

NOTE: HDMI Settings is grayed out on non-HDMI inputs.

Press ▲ or ▼ to select an item and press ◀ or ▶ to select a setting.

HDMI Settings						
•	On	+				
	On					
	Auto					
	1	On				

• Enable Content Type: On

This feature is part of the HDMI standard.

When set to On, the TV will automatically adjust settings according to the content type data sent from the connected HDMI device.

• INSTAPORT™: On

This feature reduces the lag time when switching HDMI sources.

· RGB Range: Auto

This feature adjusts RGB full range signal automatically. When **Limited** is selected, RGB signal is output in the range from 16 to 235. When **Full** is selected, RGB signal is output in the range from 0 to 255.

NOTE:

3

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz or supports Deep Colour, you will need a Category 2 cable. Conventional HDMI/DVI cables may not work properly with this mode.
- All of the above HDMI settings need proper HDMI source devices.

If the HDMI source products do not support these features, the television may not work properly by activating these features.

Digital Audio Output

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

In the **Preferences** menu, press ▲ or ▼ to select **AV**Connection and press **OK**.

Press ▲ or ▼ to select Digital Audio Output.

AV Connection				
Input Labeling				
PC/HDMI 3 Audio	PC			
Side Shared Audio	EXT 2			
HDMI 3 Audio	Auto			
HDMI Settings				
Digital Audio Output				

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

Audio Format:

Press ◀or ▶ 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 PLS → Dolby Digital

MPEG → PCM

HE-AAC → Dolby Digital

Audio Delay:

Press ◀or ▶ 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 \triangleleft or \triangleright to adjust the audio signal timing (0-250 ms) to meet the video signal timing.

NOTE:

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

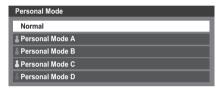
Using Personal TV Mode

You can customize some TV functions as desired and those settings can be saved in one of 4 Personal Modes (A to D). The Personal Mode can be selected from the **Quick Menu** (manual switching), or when individual Facial Recognition is performed with the camera, at the Welcome Window, press the coloured button corresponding to each Personal Mode.

Manual Switching

Press QUICK to open the Quick Menu.

Press ▲ or ▼ to select **Personal Mode** and press **OK**.



Press ▲▼ or corresponding coloured button to select individual Personal Mode from Normal, Personal Mode A, Personal Mode B, Personal Mode C and Personal Mode D. The mode will default to Normal every the TV is turned off and on.

NOTE: If the Personal PIN has been set, the Lock icon will be displayed. If the Personal PIN entry screen is displayed, enter the correct Personal PIN.

Facial Recognition

After registering faces beforehand for each Personal Mode, the Welcome Window will be displayed when the camera detects a corresponding face. The Personal Name corresponding to the detected face will be displayed in the Welcome Window.

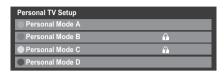


Change Personal Modes by pressing the corresponding Coloured button while the Welcome Window is being displayed. Switch at this time to the Personal Mode corresponding to the Coloured button that was pressed, even if it is the Coloured button for a Personal Mode that corresponds to a face other than the one recognized.

NOTE: If the Personal PIN has been set, the Personal PIN entry screen will be displayed. Enter the correct Personal PIN.

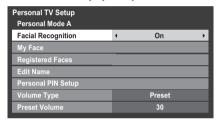
Personal TV Setup

- Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup / Preferences icons and press OK.
- Press ▲ or ▼ to select Personal TV Setup and press



Press ▲ or ▼ (or corresponding coloured button) to select the individual Personal Mode and press **OK**.

Display Example



Facial Recognition

Press ▲ or ▼ to select **Facial Recognition** and press ◀ or ► to select **On** or **Off** to activate or deactivate this function.

My Face

My face is the facial registration necessary for performing Facial Recognition.

Press ▲ or ▼ to select My Face and press OK.



The My Face screen will appear.

Display the video image currently being taken by the camera. If a face is detected, the camera sensor will place a focus around that face. When a face is detected within the "OK to register" frame on the My Face screen, press **OK** to register.

NOTE:

- It will be impossible to register a face if there are multiple faces detected inside of the video image.
- It will be impossible to register a face if there is no face detected inside of the video image.
- It will be impossible to register a face if the face was already registered for another personal mode.
- It will be impossible to register a face if the TV is recording status. At this time, the video from camera cannot be displayed.
- If the above Facial Recognition is Off, My Face will be grayed out.
- If you have already registered 10 faces, a new face cannot be registered.

Registered Faces

This feature is to confirm a face that has already been registered.

Press ▲ or ▼ to select **Registered Faces** and press OK.

The Registered Faces screen will appear.

- Press ▲ ▼ ◀► to select each registered face.
- Press the **RED** button if you want to delete the face.
- Press ◀or ▶ to select **Yes** in the confirmation window and press **OK**.

NOTE: When the **Reset TV** is executed, all registered faces will be reset

Edit Name

You can edit the name of your Personal Mode. Press ▲ or ▼ to select **Edit Name** and press **OK**. Edit the desired name by using the software keyboard (see page 53). The maximum number of characters is 25.

Personal PIN Setup

Press ▲ or ▼ to select **Personal PIN Setup** and press **OK**. Enter your personal PIN in same manner as "Parental PIN Setup" on page 83.

Volume Type

Press ▲ or ▼ to select **Volume Type** and press ◀ or ▶ to select **Preset** or **Last**.

Last — The last volume level in your Personal Mode.

Preset — The Preset volume level is selected whenever the

Preset Volume

Press \triangle or ∇ to select **Preset Volume** and press \triangle or ∇ to adjust your desired volume level. When the **Volume Type** is set to **Last**, this feature will be grayed out.

Behaviour in Personal Mode

• Personal Favourite Channel List (Fav5 -Fav8):

Normal Mode: Fav1 / Fav2 / Fav3 / Fav4

Personal Mode A: Fav5 Personal Mode B: Fav6 Personal Mode C: Fav7 Personal Mode D: Fav8

Press the LIST button to display Channel List and press ◀ or ► to select All or your Personal Mode (Fav5 – Fav8)

· Personal Picture Mode:

The Picture Mode you selected is stored in your Personal Mode.

Personal Volume:

The sound volume you set is stored in your Personal Mode.

Personal Grouping of Recorded Programmes

When switching between Personal Modes, recordings (OTR, TimeShift, Timer Recording) will be displayed categorically in the Library by Personal Mode.

Programmes recorded in Personal Mode A/B/C/D with OTR or TimeShift will be saved remembering the Personal Grouping corresponding to each respective mode.

When user performs a Timer Recording while in Personal Mode A/B/C/D, after the transition to Set Timer, make the Default for Personal Grouping (a Set Timer setting item) be a selection item corresponding to whatever mode you are in.

When you perform OTR, TimeShift, or Timer Recording while in Normal Mode, the Personal Grouping for recorded programmes will be remembered as "None."

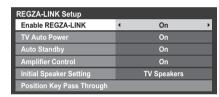
Using REGZA-LINK

This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK compatible devices from the television remote control via HDMI connection (page 14).

When the **Enable REGZA-LINK** item in the **REGZA-LINK Setup** menu is set to **On**, individual functions also set to **On** will be activated

Enable REGZA-LINK

- Press ▲ or ▼ to select **REGZA-LINK Setup** and press
- Press ▼ to select Enable REGZA-LINK and press ◀ or ▶ to select On.



NOTE: If you set **Enable REGZA-LINK** to **Off**, all other items will be grayed out.

TV Auto Power

The **TV Auto Power** setting allows the television to be automatically switched on if a REGZA-LINK device is turned on.

- In the **REGZA-LINK Setup** menu, press ▼ to highlight

 TV Auto Power.
- Press ◀ or ▶ to select **On** or **Off**.

Auto Standby

When **Auto Standby** is enabled, the television, when switched off, will automatically switch off (standby mode) all connected REGZA-LINK equipment.

- In the **REGZA-LINK Setup** menu, press ▼ to highlight **Auto Standby**.
- Press ◀or ▶ to select On or Off.

Amplifier Control

When Amplifier Control is set to On, it allows the "Initial Speaker Setting" feature to become available.

- In the REGZA-LINK Setup menu, press ▼ to highlight Amplifier Control.
- Press **◄** or **▶** to select **On** or **Off**.

Initial Speaker Setting

This feature allows the audio output preference to be set to the TV speakers or AV amplifier speakers. The AV Amplifier option lets the television's remote control adjust or mute the volume of the audio.

- In the REGZA-LINK Setup menu, press ▼ to highlight Initial Speaker Setting.
- Press ◀or ▶ to select TV Speakers or Amplifier.

Position Key Pass Through

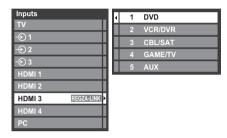
When **Position Key Pass Through** for the selected HDMI input mode is set to **On**, the **P^P** and number (0-9) keys on the remote control will pass through. When in **Off**, those operate as TV programme selection keys.

- In the REGZA-LINK Setup menu, press ▼ to highlight Position Key Pass Through and press OK.
- Press ▲ or ▼ to select the appropriate HDMI mode.
- Press ◀or ▶ to select On.

REGZA-LINK input source selection

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

- Press and a list will appear on screen showing available input sources.
- Press ▼ to select the desired input source with REGZA-LINK icon.
- Press ▶ and a second selection screen will appear showing all connected REGZA-LINK equipment.



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

NOTE:

- These functions depend on the device connected.
- If you select the REGZA-LINK input source from the popup window, some REGZA-LINK devices may automatically turn on.
- When the television is switched on it will take a few minutes for the REGZA-LINK icon to appear in the list. When an HDMI cable is removed, it will take a few minutes for the icon to disappear.
- If the HDMI cable from connected equipment is changed, Enable REGZA-LINK in the REGZA-LINK 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 REGZA-LINK item on the REGZA-LINK Setup menu from Off to On.

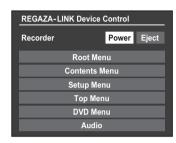
REGZA-LINK Device Control

With the REGZA-LINK mode on your television's remote control, you can control the connected REGZA-LINK device you are watching.

To control the REGZA-LINK input source first select the equipment by REGZA-LINK input source selection.

Press QUICK to open the Quick Menu.

Press ▲ or ▼ to select **REGZA-LINK Device Control** and press **OK**.



Press ▲ or ▼ to select a control option and press OK.

NOTE: The available functions depend on the equipment connected. Please refer to the operation manual for each piece of equipment connected.

REGZA-LINK one touch play

When connected equipment is switched on, REGZA-LINK 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 REGZA-LINK Setup (see page 93).

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.

REGZA-LINK system standby

If the television is turned off (standby mode), the television will send a message to turn off (standby mode) all of the REGZA-LINK devices connected to the television.

These functions can be enabled or disabled from the REGZA-LINK Setup (see page 93).

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

REGZA-LINK system audio control

With your television's remote control, you can adjust or mute the sound volume of the speakers connected to the television via an AV amplifier.

- Set the Initial Speaker Setting to Amplifier in the REGZA-LINK Setup menu.
- Confirm that a connected REGZA-LINK device (such as a DVD player, etc) is selected for the AV amplifier input source.

NOTE:

- These functions depend on the device connected.
- When you turn on the AV amplifier, change its input source, or adjust the sound volume, the sound will be output from the AV amplifier's speakers even if TV Speakers has been selected. Turn the television off and on again to output the sound from the TV Speakers.
- This feature may not work if the AV amplifier is operated.

Toshiba PC compatible with REGZA-LINK

This feature automatically adjusts the suitable widescreen formats and picture preferences when connected to a Toshiba PC compatible with REGZA-LINK.

NOTE: This feature depends on the connected equipment state.

Using MHL TV function

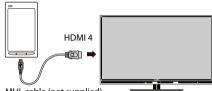
You can use the following functions by connecting between the TV HDMI 4 port and an USB port of mobile phones etc. with a MHL cable.

- · 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 equipment.

Connecting an MHL-compatible Device

Connect the device to the HDMI 4 port on the TV using an MHL cable (not supplied).



MHL cable (not supplied)

· When you connect an MHL-compatible device to the HDMI 4 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 4 port.

Operating an MHL-compatible Device

When an MHL-compatible device is connected to the HDMI 4 port on the TV, input automatically switches to the HDMI 4 port.

Operate the device using the remote controller for the TV. To display photos, select the photos using $\triangle \nabla \blacktriangleleft \triangleright$ 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 4 port when an MHL-compatible device is connected.

- Press **MENU** / To highlight **Setup** icon.
- Press A / To highlight Preferences icon and press OK.
- Press ▲ or ▼ to select MHL Setup and press OK.
- Press ◀or ▶ to select **On** or **Off**.

Text services

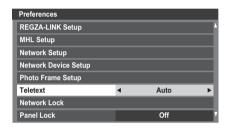
This television has a multi-page text memory, which takes a few moments to load. It offers two *Modes* of viewing text – **Auto** will display **Fastext**, if available. **List** will save your four favourite pages.

Selecting modes

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

Press MENU / ◀▶ / ▲ / ◀▶ to highlight Setup / Preferences icons and press OK.

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



Text information

The TEXT button:

2

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** to advance to the next page and **P** 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 ◀ or ▶.

Once selected, the sub-page you are viewing will be highlighted and, as the television loads any additional sub-pages, 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, 200, 300 and 400, 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.

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 **F** button.

To hold a wanted page:

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

≡ † To enlarge the text display size:

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

(i)/EX To select a page whilst viewing normal picture:

Enter the page number then press ①/(EX), normal picture will be displayed. The television will indicate when the page is ready by changing the colour of the page number at the top of the screen. Press **TEXT** to view the page.

To display news flashes:

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

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

Ouestions and Answers

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

Why is there no sound or picture?



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



There is a picture, but why is there little or no colour?



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

To check that you have the best colour:

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

System Setup		
Menu Language	English	7
Country	Germany	1
Colour System	◆ Auto	Þ

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



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 12, and then select the correct input by pressing **2**.



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.

What else can cause a poor picture?



Interference or a weak signal. Try a different television station. Manual Fine Tuning may help.



Select the ATV Manual Tuning menu. Highlight the station and press **OK**. Then press ▶ to select **Manual** Fine Tuning.

2

Using ▲ or ▼ adjust to get the best picture and sound. Press OK and then EXIT.





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 the batteries aren't dead or inserted incorrectly.



Why is the digital channel locked?



The channel has been locked in Channel Options (see 'Digital settings - Channel Options' section).



Why are some of the digital subscription channels unavailable?



Your subscription needs upgrading. Contact your service provider.



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.

What is DVB-T?

 \boldsymbol{A}

Digital Video Broadcast via an aerial/antenna.

Q

What is DVB-C?

 \boldsymbol{A}

Digital Video Broadcast via a cable connection.

Q

How are radio channels selected?

A

Press **TV** on the remote control and select **DTV Radio**. Alternatively select from the GUIDE.

O

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

A

Use the Master PIN code of 1276, then change to a number of your choice. Select **Parental PIN Setup** from the **DTV Settings** menu to enter PIN. Ensure that no-one else can use the Master PIN by removing the Owner's Manual.



Why are there vertical stripes on the screen when in PC mode?

A

The **Sampling Clock** may need adjustment. Select **PC Settings** from the **Display Settings** menu, highlight **Sampling Clock** and adjust until the lines clear.



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

A

The Clock Phase may need adjustment. Select PC Settings from the Display Settings menu, highlight Clock Phase and adjust until the picture clears.



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

A

Subtitles are not currently being transmitted by the broadcaster.



Why are there problems with analogue text?

A

Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check the aerial. Go to the *main index* page of the text service and look for the *User Guide*. This will explain the basic operation of text in some detail. If further information is needed on how to use text see the text section.

Why is a page number visible at the top of the screen but no text?

 \boldsymbol{A}

Text has been selected but Teletext information is currently unavailable on the current source.

Q

Why are the colours wrong when an NTSC source is played?

 \boldsymbol{A}

Connect the source via a SCART lead and play. Select **Colour System** from the **System Setup** menu.

0

Set the Colour to **Auto** and exit.

2

Go to the **Picture** menu and adjust the tint.

Q

Why don't the devices connected via HDMI operate properly?

A

Make sure to use cables with the HDMI logo

Some early HDMI equipment may not work properly with the latest HDMI TV products, due to new standard adoption. Try switching the HDMI settings (Enable Content Type and INSTAPORTTM) to Off.

Q

Why don't the devices connected via MHL operate properly?

A

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.

0

Why don't the REGZA-LINK devices work?

A

When the connected REGZA-LINK 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 REGZA-LINK device and lead again.

Q

Why is the REGZA-LINK logo still showing when the equipment has been disconnected?

 \boldsymbol{A}

If the REGZA-LINK device is disconnected, the logo will disappear after approximately one minute.

Q

Why don't the networked devices work?

 \boldsymbol{A}

The LAN cables are not connected properly or at all. Connect all cables (see page 16). Make sure your network address is set up correctly (see page 51).

Q

Why doesn't the Media Player feature operate?



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

Check your network setup if using DLNA CERTIFIED $^{\!\scriptscriptstyle\mathsf{TM}}$ 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 power of 3D glasses turn on?



Charge the battery.



Why doesn't the USB HDD work?



Register your USB HDD. Use the USB 2 port to connect the USB HDD. Your country/area may not support the USB HDD function.



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



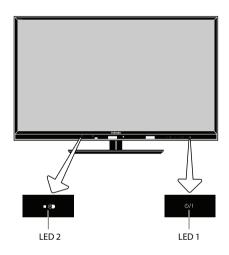
Check the table below.

LED indi	cation	Condition	Solution		
LED-1	LED-2	Condition	Solution		
Blue	Orange	Power ON Programme Timer is set Both Programme Timer (Recording) and Recording are NOT working	1		
Blue	Red	Power ON Programme Timer (Recording) or Recording is working	-		
Blue	OFF	Power ON Programme Timer is NOT set Both Programme Timer (Recording) and Recording are NOT working	1		
Red	Orange	Power OFF (Standby) Programme Timer is set Both Programme Timer (Recording) and Recording are NOT working	-		
Red	Red	Power OFF (Standby) Programme Timer (Recording) or Recording is working	-		

Other problems

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

- 1 Turn off your TV. After 30 seconds, turn it on.
- 2 Turn off the TV and unplug the power cord. After 1 minute, plug the power cord in and turn on the TV.
- 3 Perform the Reset Factory Defaults procedure (see page 87).



LED indi	cation	Condition	Solution
LED-1	LED-2	Condition	Joidtion
Red	OFF	Power OFF (Standby) Programme Timer is NOT set Both Programme Timer (Recording) and Recording are NOT working	-
OFF	Green (Blinks)	Abnormal operation of BUS line.	Turn OFF the TV
Red (Blinks)	OFF	Abnormal operation of WDT.	power cord. Plug the power cord in
Blue (Blinks)	OFF	Fan stopped. (if applicable)	again and turn ON the TV.
Orange	Green	For Service SW Upgrade in Progress	-
Red	OFF	For Service SW Upgrade Failed	-
Blue	OFF	For Service SW Upgrade Successful	-

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. 7,295,673; 7,460,668; 7,515,710; 7,519,274

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- · Hybrid TV Standard is implemented according to ETSITS 102 796 v1.1.1.

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

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

Disposal of batteries and/or accumulators

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

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

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







Information

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

Signal information for Mini D-sub 15 pin connector

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

^{*} NC = not connected

Acceptable PC signals through the PC terminal

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

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

Acceptable video or PC signals through the HDMI terminals

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

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

Media Player Supported Format

Media Player	Media Format	File Extension	Video/Audio codec	USB	DMS	Note
Photo	JPEG	.jpg	JPEG	Yes	Yes	<usb></usb>
		.jpeg				Data compatibility: JPEG Exif ver 2.2
	MPO	.mpo	JPEG	Yes	No	Maximum viewable resolution:
						4096 x 4096 (HW decode) 16384 x 16384 (SW decode)
						Maximum photo size: 9MB
						Maximum number of files: 2000 / folder
						<dms></dms>
						Data compatibility: JPEG EXIF Ver.1.x or later, JFIF 1.02a
						Maximum photo resolution: 4096 x 4096
						Maximum photo size: 6 MB
						Maximum number of files: 2000 / folder
Movie	MPEG-2 PS	.mpg	Video) MPEG-1 Video	Yes	No	<usb></usb>
	MPEG-2 TS	.mpeg .ts	Video) MPEG-2 Video	Yes	Yes	Maximum number of files: 2000 / folder < DMS>
		.15	H.264 (MPEG-4 AVC)			Maximum number of files: 2000 / folder
			Audio) MPEG-1 Layer1	Yes	Yes	
			MPEG-1 Layer2 MPEG-2 Layer2			*) Some files may not be played. *) Normal playing and trick playing may
			Dolby Digital (AC-3)			not be available depending on the
			L-PCM (MPEG-2 PS only)			contents.
			Audio) Dolby Digital Plus	Yes	No	*) Div X external subtitles are not
			AAC			supported.
			HE AAC			
	MP4	.mp4 .m4v	Video) H.264 (MPEG-4 AVC)	Yes	Yes	
		.111-4 V	Audio) AAC	Yes	Yes	
			Audio) HE AAC	Yes	No	
			Dolby Digital (AC-3) Dolby Digital Plus			
	AVI	.avi	Video) DivX (3,4,5,6)	Yes	No	
	DivX	.divx	Audio) Dolby Digital (AC-3)	Yes	No	
	DivX Plus HD	.div	MPEG-1 Layer2	ies	NO	
			MPEG-1 Layer3			
	MKV	.mkv	Video) H.264	Yes	No	
	DivX Plus HD		Audio) AAC	Yes	No	
			HE AAC			
			Dolby Digital (AC-3) MPEG-1 Layer 3			
	ASF	.asf	Video) VC-1	Yes	No	
		.wmv	Audio) WMA	Yes	No	
	AVCHD	.mts	Video) H.264 (MPEG-4 AVC)	Yes	Yes	
		.m2ts	Audio) Dolby Digital (AC-3)	Yes	Yes	
Music	MP3	.mp3	Audio) MPEG-1 Audio Layer-3	Yes	Yes	<usb></usb>
			MPEG-2 Audio Layer-3 MPEG-2.5 Audio Layer-3			Maximum number of files: 2000 / folder < DMS>
	MP4	.mp4	Audio) AAC	Yes	No	Maximum number of files: 2000 / folder
	1411.4	.mp4 .m4a	Audio) AAC Audio) HE AAC	Yes	No	*)Some files may not be played.
	WMA	.wma	Audio) WMA	Yes	No	, Joine mes may not be played.
	L-PCM	.vviiid	Audio) L-PCM	No	Yes	
	L-F CIVI		Audio) L-FCIVI	NO	res	

3D Support Format (HDMI)

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

3D Support Format (DTV)

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

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

Side by Side (Full)				-	R
	2D Video		3D Vide	:O	
Side by Side (Half)			L	R	
	2D Video		3D Vide	0	•

Specifications and accessories

Receiving systems							
DVB-T Broad	cast 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,G,H,H1,H2) UHF 21-69						
Spain	UHF 21-69						
Nederlands	VHF 05-12 UHF 21-69						
Greece	VHF 05-12 UHF 21-69						
DVB-C Broadcast systems							

DVB-C Broadcast systems DVB-S/DVB-S2 Broadcast systems

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	Phono jacks Phono jacks	$Y, P_B/C_B, P_R/C_R$ Audio L + R
EXT 3	Input	Phono jacks	Video/Audio L + R
HDMI 1/2/3/4	Input	HDMI® compliant	

HDCP compliant (Enable Content)

(Enable Content Type, INSTAPORT™, RGB Range, supported) HDMI 4 is compatible with MHL

PC Input Analog RGB

PC/HDMI 3 Audio input 3.5mm mini jack Audio

Digital Audio Output (S/PDIF) Optical LAN port RJ-45

USB 1/USB 2 port Media Player

Interface version: USB 2.0 USB class: Mass Storage File system: FAT16 and FAT32

Maximum output: 500mA (specified to charge the 3D glasses FPT-AG02G)

USB HDD connection compatible

USB 2 port USB HDD connect

Headphone socket 3.5mm stereo

Stereo A2, Nicam
2 carrier system

 Visible Screen Size
 42
 107cm

 (approx.)
 46
 117cm

 55
 139cm

Display 16:9

 Sound output
 Main:
 10W + 10W

 (at 10% distortion)
 Woofer:
 10W

Power consumption (approx.)	42WL/42YL 46WL/46YL 55WL/55YL	140W 152W 184W
Standby power consumption (approx.)	0.3W	
On-mode power consumption* (approx.)	42WL/42YL 46WL/46YL 55WL/55YL	94.1W 115W 138W
Average annual energy consumption** (approx.)	42WL/42YL 46WL/46YL 55WL/55YL	137.4kWh/y 167.9kWh/y

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

 Dimensions
 42WL/42YL
 69cm (H)
 101cm (W)
 29cm (D)

 (approx.)
 46WL/46YL
 72cm (H)
 107cm (W)
 29cm (D)

 55WL/55YL
 84cm (H)
 127cm (W)
 36cm (D)

 (Height dimension includes foot stand)

Weight (approx.) 42WL/42YL 17.5kg

46WL/46YL 18.5kg 55WL/55YL 25.5kg

Operating condition Temperature 5°C - 35°C (41°F - 94°F) Humidity 20 - 80% (non-condensing)

Wireless connection • Standard: IEEE 802.11a/b/g/n

 Frequency 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

Remote control CT-90378
 2 batteries (AAA, IEC R03 1.5V)

 Toshiba 3D glasses: FPT-AG02G (for YL86 and YL87 series)

SCART Adaptor cable
Component Adaptor cable

AV Adaptor cable
 AV-SCART Adaptor cable

 RGB/PC-D-sub15pin(mini) Adaptor cables(w/audio)

'P' Clip/Screw (for TV mounting)
 See page 6.

Two cable clamps

Optional accessories

· Toshiba 3D glasses: FPT-AG02G

USB HDD

For available USB HDD, see "Product Information" on the website.

^{**} Operating 4 hours a day and 365 days a year.



EU Ecolabel: PL/22/002

For those products that have been awarded the European Eco Label, TOSHIBA gives a minimum of 2 years guarantee for this LCD TV and 7 years availability for replacement of electronic parts. For warranty repairs, please contact the retailer where you purchased the product.

Please see the Toshiba website or European Eco Label website (www.ecolabel.eu) for details of those products.

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