



TL9*8 Digital Series TL969 Digital Series UL985 Digital Series



Contents

INSTALLING YOUR TV

Safety Precautions	4
Installation and important information	
The remote control	7
Inserting batteries and effective range	7
The remote control	
Inserting batteries and effective range	8

CONNECTING YOUR TV

Connecting external equipment	9
Connecting an HDMI® device	10
To connect an HDMI device	10
HDMI's ARC (Audio Return Channel) feature	10
Connecting an HDMI CEC Control compatible device	11
Connecting a computer	12
To connect a PC to the HDMI terminal	12
To connect a PC to the RGB/PC terminal	12
Connecting a home network	13
To connect the TV to a home network - Wired	13
To connect the TV to a home network with an	
internet connection - Wireless	13
To connect the TV to the PC with	
Intel® Wireless Display	13
Controls and input connections	14
Switching on	14
Using the menu system	14
Using the TV controls and connections	14
MENU structure	15

SETTING UP YOUR TV

Startup Application	16
Quick Setup	16
Ant/Cable/Satellite (if available)	20
Satellite Settings	21
Auto Tuning	23
ATV Manual Tuning	
Tuning	24
Skip	25
Sorting positions	
DTV Manual Tuning	26
Manual Tuning	26
Manual Tuning for DVB-C	27
Manual Tuning for DVB-S	
DTV Settings	27
Channels (Antenna/Cable)	27
Channels (Satellite)	28
Standby Channel Update	28
Location setting	28
Analogue switch-off	28
-	

CONTROLS AND FEATURES

General controls	29
Quick Menu	29
Selecting channels	29
The Time Display – analogue only	29
Stereo and Bilingual transmissions	29
Using 3D functions	30
Stereo and Bilingual transmissions	29

Viewing 3D images	31
Switching display mode or selecting 3D format	31
Setting the auto start mode	33
Adjusting 2D to 3D Depth	33
Setting the 3D PIN code	
Setting 3D Start Message	
Setting 3D Lock	
Setting 3D Timer Lock	
Setting Enable 3D Timer	
Displaying 3D Important Info	
Switching left and right images	
Sound controls	
Volume controls and sound mute	
Dual	
Balance	
Bass, Treble	
Voice Enhancement	
Dynamic Bass Boost	
Stable Sound [®]	
Dynamic Range Control	
Audio Level Offset	
TV Speakers On/Off	
Headphone Settings	
Audio Description	
Widescreen viewing	
Picture controls	
Picture Mode	
Picture preferences	
Reset	
ColourMaster	
Base Colour Adjustment	
Colour Temperature	
Auto Brightness Sensor	40
Active Backlight Control	
Black/White Level	
MPEG NR – Noise Reduction	
DNR – Digital Noise Reduction	
Resolution +	
Clear Scan	
Resetting the advanced picture settings	
Expert Picture Settings	41
Automatic Format (Widescreen)	
4:3 Stretch	
Blue Screen	
Picture Position	
Picture still	
HDMI Information Display	
Wireless LAN Information	
Setting up the Network	
Wireless Setup	
Advanced Network Setup	
DNS Setup	
Network Connection Test	
Using the software keyboard	
Network Device Setup	
Apps Control Profile	
TV Power On Control (Active Standby)	
Media Renderer Setup	
Device Name Setup	
USB HDD Record Function	52

Setting up the USB HDD for recording To record DTV programmes	53
(One Touch Recording)	53
How to set recordings via the Programme Guide	
To check, edit or delete scheduling information .	
To view a recorded programme	
Operations from the Library screen	
Recording Setup	
Scheduling priority	
Using Toshiba Places	
Using Web Browser	60
Using Skype	
Using Hybrid TV Standard (if available)	
Using Intel® Wireless Display	
Intel [®] Wireless Display Device Name	
PC List	
Using the Media Player	
Basic operation	
Viewing photo files	
(on a DLNA CERTIFIED [™] Server or USB device).	68
Viewing movie files	00
(on a DLNA CERTIFIED [™] Server or USB device).	70
Playing music files	
(on a DLNA CERTIFIED [™] Server or USB device).	72
Other features	
Panel Lock	73
Panel Lock The timers	
The timers	74
The timers Programme Timers – digital only	74 74
The timers Programme Timers – digital only On Timer	74 74 74
The timers Programme Timers – digital only On Timer Sleep Timer	74 74 74 75
The timers Programme Timers – digital only On Timer	74 74 74 75 75
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down	74 74 74 75 75 75
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings	74 74 75 75 75 75
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information	74 74 75 75 75 75 75 76
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information Information	74 74 75 75 75 75 76 76
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information Information Using EPG (Electronic Programme Guide)	74 74 75 75 75 75 76 76 76 77
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information Information Using EPG (Electronic Programme Guide) Using Broadcast Guide	74 74 75 75 75 75 76 76 77 77
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information Information Using EPG (Electronic Programme Guide) Using Broadcast Guide Genre selection/searching	74 74 75 75 75 75 76 76 76 77 77
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information Information Using EPG (Electronic Programme Guide) Using Broadcast Guide	74 74 75 75 75 75 76 76 76 77 77 77
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information Information Using EPG (Electronic Programme Guide) Using Broadcast Guide Genre selection/searching Using MediaGuide MediaGuide screen	74 74 75 75 75 75 76 76 76 77 77 77 77
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information Information Using EPG (Electronic Programme Guide) Using Broadcast Guide Using MediaGuide	74 74 75 75 75 76 76 76 76 77 77 77 77 77 78
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down No Signal Power Down Information Using EPG (Electronic Programme Guide) Using Broadcast Guide Using Broadcast Guide Using MediaGuide screen Primary Navigation menu Digital settings – parental control	74 74 75 75 75 76 76 76 76 77 77 77 77 77 77 78 79
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information Information Using EPG (Electronic Programme Guide) Using Broadcast Guide Genre selection/searching Using MediaGuide MediaGuide screen Primary Navigation menu Digital settings – parental control Parental PIN Setup	74 74 75 75 75 76 76 76 77 77 77 77 77 77 77 77 77 78 79 79
The timers Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down No Signal Power Down Information Using EPG (Electronic Programme Guide) Using Broadcast Guide Using Broadcast Guide Using MediaGuide screen Primary Navigation menu Digital settings – parental control	74 74 75 75 75 76 76 77 77 77 77 77 77 78 79 79 79 79
The timers	744 744 755 755 755 766 777 777 777 777 778 79 79 79 79 79 79 79 79 79 79 79
The timers	744 744 755 755 755 766 777 777 777 777 778 79 79 79 79 79 79 79 79 79 79 79
The timers	74 74 75 75 75 75 76 76 77 77 77 77 77 77 77 79 79 79 79 79 79 79 79 79 79 79 79 79 79 70
The timers	74 74 75 75 75 75 76 76 77 77 77 77 77 77 77 77 79

Locking channels	.80
Digital settings – other settings	.81
Subtitles	
Audio languages	.81
Common Interface	.81
Software Upgrade and Licences	.82
Searching for New Software	.82
Network Upgrade	.82
Software Licences	.82
System Information and Reset TV	.82
System Information	
Reset TV	.82
PC Settings	.83
Horizontal and Vertical Position	.83
Clock Phase	.83
Sampling Clock	.83
Reset	.83
Input selection and AV connections	.84
Input selection	.84
Labeling video input sources	.84
Digital Audio Output	.85
Using HDMI CEC Control	.85
Enable HDMI CEC Control	.85
TV Auto Power	.85
Auto Standby	.85
Amplifier Control	.86
Initial Speaker Setting	.86
HDMI CEC Control input source selection	.86
HDMI CEC Control one touch play	.86
HDMI CEC Control system standby	.86

TEXT SERVICES

87
87
87
88

PROBLEM SOLVING

Questions and	Answers	
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INFORMATION

Information	92
License Information	
Disclaimers	100
Specifications and accessories	102

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

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

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

Safety Precautions

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

Air Circulation

Leave more than 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. For wall mounted positions at least 2.5cm gap was retained from the wall and the 10cm was kept clear around the perimeter of the TV.

Heat Damage

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

Mains Supply

The mains supply required for this equipment is 220-240v 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.

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

Do

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

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

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

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

DO be careful with glass panels or stands on equipment.

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

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

Do not

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

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

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



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

DONOT use makeshift stands and NEVER fix legs with wood screws.

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

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

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

WARNING: Excessive sound pressure from earphones or headphones can cause hearing loss.

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

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

Installation and important information

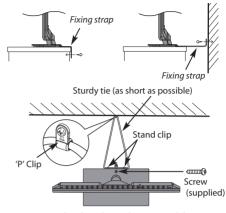
Where to install

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

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

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

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



Stand style is dependent on model

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

When using a Wall Bracket

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

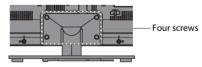
- Two people are required for installation.
- To install a wall-mount from another manufacturer, use the **SPACERS** (supplied).
- 1 Unplug and remove any cables and/or other component connectors from the rear of the TV.
- **2** Carefully lay the front of the unit face down on a flat, cushioned surface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

Removing the Pedestal Stand:

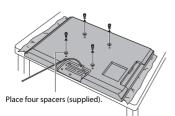
 Carefully lay the front of the unit face down on a flat, cushioned surface such as a quilt or blanket. Leave the stand protruding over the edge of the surface.

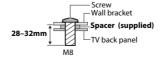
NOTE: Extreme care should always be used when removing the pedestal stand to avoid damage to the LCD panel.

2 Remove the four screws.



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





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

5

Please take note

The digital reception function of this television is only effective in the countries listed in the "Country" section of the "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 Hard Drive (HDD)

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

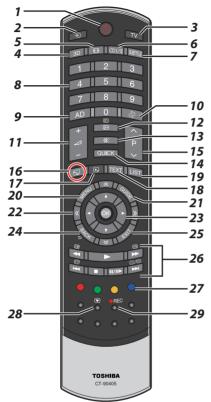
- Toshiba shall not be liable for damages of any kind whatsoever (breakdown of the recording device, modification or loss of the recorded content, etc.) resulting from malfunction, operating failure or incorrect operation due to combining with another connected device.
- If you connect a USB HDD that has been used with a PC or another TV, only programmes which are recorded using this TV can be playback.
- Switch the TV to standby before you disconnect the USB HDD.

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

 Please note that recording on the USB HDD is no longer playable after the TV's main-board is exchanged during service.

The remote control

CT-90405 (for TL series)



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

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

26 When in TV mode: ①/(프> Analogue time display	When in Text mode: Image: To reveal concealed text Image: To hold a wanted page Image: To enlarge text display size (Image: To select a page While viewing a normal picture
When using Programme Guide: I ← -24 hours +24 hours ← -1 page +1 page	During Playback: To PLAY To STOP IMID To PAUSE/STEP I To SKIP-BACK I To FAST FORWARD To SKIP-FORWARD

- 27 Colour buttons: Text and interactive service control buttons
- 28 Picture still
- 29 To record DTV programmes

Inserting batteries and effective range



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

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

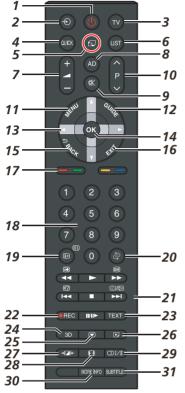
battery types. Remove exhausted batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 99 of this manual.

Warning: Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced, the batteries may need replacing.

The remote control

CT-90378 (for UL series)



- 1 For On/Standby mode
- 2 To select external input sources
- 3 To select TV Mode (DTV Ant/ATV)
- 4 To access Quick 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 and applications
- 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 channel

21	When in TV mode: ②/≅ Analogue time display		n Text mode: To reveal concealed text To hold a page To enlarge text display size To select a page while viewing a normal picture
	When using Programme Guide: → -24 hours → +24 hours → -1 page → +1 page		Playback: To PLAY To STOP To PAUSE/STEP To start Time Shift Recording To SKIP-BACK To REWIND To FAST FORWARD
		PPI	To SKIP-FORWARD

- 22 To record DTV 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 OI/I 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, IEC R03 1.5V.

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

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

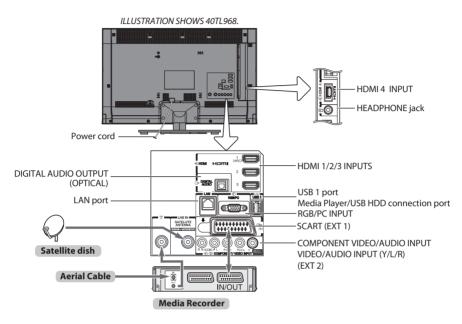
Warning: Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced, the batteries may need replacing.

8

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.

SCART leads:

Connect the media recorder IN/OUT socket to the television. Connect the decoder TV socket to the television.

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

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

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

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

NOTE: This output is always active.

HDMI[®] (High-Definition Multimedia Interface) is for use with electrical equipment with digital audio and video output. It is designed for best performance with 1080i and 1080p highdefinition video signals but will also accept and display VGA, 480i, 480p, 576i, 576p and 720p signals.

PC format signals will also be displayed.

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

LAN port is used to connect the TV to your home network. 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 O to select between **TV, EXT 1, EXT 2, HDMI 1, HDMI 2, HDMI 3, HDMI 4** or **PC**.

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

Connecting an HDMI[®] device

The HDMI input on your television receives digital audio and uncompressed digital video from an HDMI source device.

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) programme material in digital form from EIA/CEA-861-D-compliant consumer electronic devices (such as a set-top box or DVD player with HDMI output). For acceptable video signal formats, see page 93.

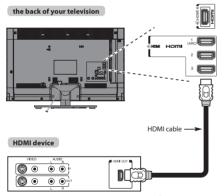
NOTE: Supported Audio format: Linear PCM, Dolby Digital (AC-3), sampling rate 32/44.1/48kHz.

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 (HDMM).

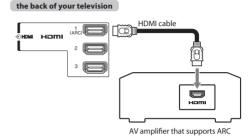
- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly with this model.
- HDMI cable transfers both video and audio. Separate analogue audio cables are not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



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

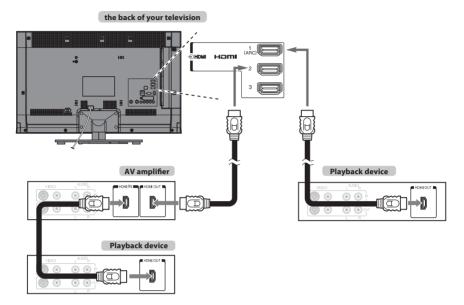
HDMI's ARC (Audio Return Channel) feature

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



Connecting an HDMI CEC Control compatible device

You can control the basic functions of connected audio/video devices using the television's remote control if you connect an HDMI CEC compatible AV amplifier or playback device. For an explanation of setup and operations, see pages 85–86.



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

NOTE:

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

Before controlling the device(s):

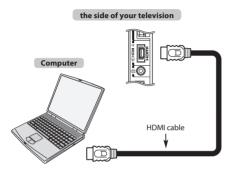
- After completing the above connections, set the HDMI CEC Control Setup menu as you desire (see page 85).
- The connected devices must also be set. For details, see the operation manual for each device.
- The HDMI CEC Control feature uses CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's HDMI CEC Control. However, Toshiba is not liable for those operations. Refer to individual instruction manuals for compatibility information.

Connecting a computer

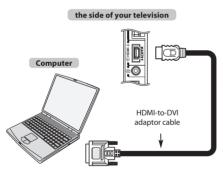
With either an HDMI or an RGB/PC connection, you can watch your computer's display on the television.

To connect a PC to the HDMI terminal

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



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



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

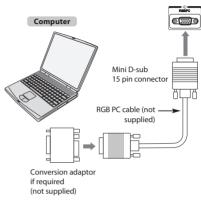
NOTE:

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

To connect a PC to the RGB/PC terminal

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

the back of your television



To use a PC, set the monitor output resolution on the PC before connecting it to the television. For acceptable PC signal formats, see page 92.

To display the optimum picture, use the PC setting feature (see page 83).

NOTE:

- Some PC models cannot be connected to this television.
- An adaptor is not needed for computers with a compatible mini D-sub15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.
- A band may appear at the edges of the screen or parts of the picture may be obscured. This is due to scaling of the picture by the set, it is not a malfunction.
- When PC input mode is selected, some of the television's features will be unavailable e.g. Colour System in the System Setup menu.
- Some PC models may output unique signals that the television may be unable to detect (see page 92).
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

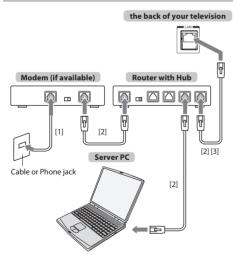
Connecting a home network

The LAN port allows your Toshiba TV to connect to your home network. You can use this revolutionary home entertainment networking system to access photo, video and audio files that are stored on a 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. Connect this TV to the same router as other DLNA CERTIFIED[™] products (server).
- If you use a hub or switch to connect the TV to your home network, you may not be able to use the automatic setup and will have to manually set up the network address. See page 48.
- If you use a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.
- If you connect the TV and PC directly, use a crossover LAN cable.
- Please consult your PC manufacturer about details of PC settings.
- Wireless appliances may interfere with Intel® Wireless Display.

To connect the TV to a home network -Wired

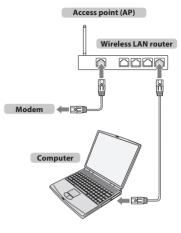


[1] Coaxial or telephone cable (depending on your modern type)[2] Standard LAN cable

[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 46.

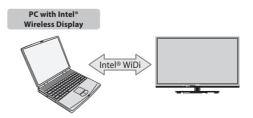


NOTE:

- If this device is going to be operated in the frequency range of 5.15 GHz to 5.35 GHz, it is restricted to indoor use.
- If this device is going to be operated for 802.11 b/g/n function in the frequency range of 2.454 GHz to 2.4835 GHz in France, it is restricted to indoor use.
- A general authorization is required for using this device outdoors or in public places in Italy.
- This device is NOT ALLOWED to be used in the geographical area within a radius of 20km from the centre of Ny-Alesund in Norway.
- Make the wireless LAN appropriate security setting at the time of wireless LAN use to prevent the illegal use, spoofing and interception of communications.
- Don't connect wireless LAN to a outside network directly. Apply the wireless LAN access point with router function or broadband router. Make the router appropriate security setting to prevent the illegal use.

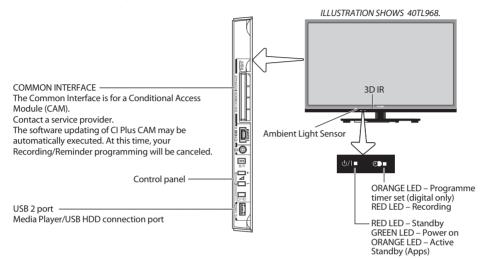
Refer to the manual of router for a security setting.

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



English

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



Switching on

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

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

For energy saving:

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

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

Using the menu system

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

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

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

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

Using the TV controls and connections

- ・ To turn on or off the TV, press 心/l.
- To alter the volume, press + or .
 + and buttons operate as volume up/down as default.
- To alter the programme position, press
 P / € once and press ∨ or ∧
- To select an external input, press and hold

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

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

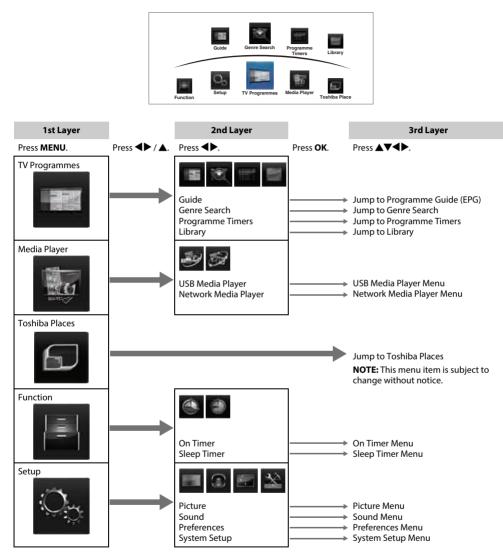
Please always refer to the owner's manual of the equipment to be connected for full details.

NOTE:

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

MENU structure

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



2

3

4

6

6

7

Startup Application

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

Quick Setup

- Press the 🕁 button. Toshiba logo will appear. and after that, The **Menu Language** screen will appear. This screen will appear the first time that the television is switched on and each time **Reset TV** is selected.
 - Press ▲ ▼ ◀► to select the menu language and press OK.

Highlight **Country** and press ◀ or ► to select. The television is now set to tune the stations for your country.

Quick Setup	
Country	✓ Germany →
Primary Subtitle Language	German
Secondary Subtitle Language	Turkish
Primary Audio Language	German
Secondary Audio Language	English

NOTE:

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

```
Location

To use the TV for displaying in a store showroom,

please select [Store]. [Home] mode is

recommended for normal use.

Home
```

- Press ◀or ▶ to select **Home** or **Store**. For normal home use, select **Home**.
- Press **OK**, and the **AutoView** screen will appear, press **◀** or **▶** to select **Yes** or **No**.

settings to su	de automatically adjusts pic uit ambient light conditions. to enable AutoView mode?	ture
•	No	•

Press **OK**, and the **Network Setup** screen will appear. Press **◄** or **▶** to select **Yes** or **No**.



• When you select No, skip to step 16.

8 Press OK, and the Network Type screen will appear. Press ◀ or ► to select Wireless.



- When you select Wired (LAN cable connection), skip to step 13.
- Press OK, and the Wireless Setup screen will appear. Press ◀ or ▶ to select the Wireless Setup type.

There are 3 methods for Wireless Setup:

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

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

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

Wireless Setup Select the wireless connection method.

belect the wireless connection method

Easy Setup

NOTE: EXIT is available during settings.

In step 9, when you select **Easy Setup**;

Press OK, and the Easy Setup screen will appear. Press ◀ or ► to select PBC (Push Button Configuration) or PIN (Personal Identification Number).

Press ▼ to highlight Start Scan and press OK.

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

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

To cancel searching for the AP:

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

In step 9, when you select Assisted Setup;

Press **OK**, and the **Assisted Setup** screen will appear. Press \blacktriangle or \triangledown to select the desired AP and press **OK**.

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

Press \blacktriangle or \blacksquare to select **Security Key** and press **OK**. The Software Keyboard window will appear (page 50). Input the Security Key by using the Software Keyboard. 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.

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

NOTE:

D

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

When the message "Wireless configuration is complete." appears on screen, press **OK**. The screen will skip to step 13.

In step 9, when you select Manual Setup;

Press **OK**, and the **Manual Setup** screen will appear. Press ▲ or ▼ to select **Network Name** and press **OK**. The Software Keyboard window will appear (page 50). Input the Network Name by using the Software Keyboard. To save your setting, press the **BLUE** button.

Press \blacktriangle or \blacktriangledown to select Authentication and then press \blacklozenge or \blacktriangledown to select Open System, Shared Key, WPA-PSK or WPA2-PSK.

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

NOTE:

- Certain encryption types are only compatible with specific authentication types.
 - When Authentication is Open System, only **WEP** or **None** is compatible.
 - When Authentication is Shared Key, only **WEP** is compatible.
 - When Authentication is WPA-PSK or WPA2-PSK, only TKIP or AES is compatible.
- When incompatible Authentication/Encryption pairings are detected, a warning message will be displayed, and no connection attempt will be made until the incompatibility is resolved.
- There is only one key ID to set for WEP encryption.

Press ▲ or ▼ to select **Security Key** and press **OK**. Input the Security Key by using the Software Keyboard (page 50).

To save your setting, press the **BLUE** button. This item is grayed out when **Encryption** is **None**.

When Encryption is WEP, Key ID setting is available. Press \blacktriangle or \triangledown to select Key ID and press \blacktriangleleft or \triangleright to select 1(default), 2, 3 or 4.

Press \blacktriangle or \blacktriangledown to select **Done** and press **OK**. When the message "Wireless configuration is complete." appears on screen, press **OK**.

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

B

The Advanced Network Setup screen will appear.

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

Advanced Network Setup	
IP Address Setup	
Auto Setup	On
IP Address	XXX . XXX . XXX . XXX
Subnet Mask	XXX . XXX . XXX . XXX
Default Gateway	XXX . XXX . XXX . XXX
DNS Setup	
Auto Setup	On
Primary DNS Address	XXX . XXX . XXX . XXX
Secondary DNS Address	XXX . XXX . XXX . XXX
MAC Address	00:11:22:33:44:55
Ne	ext

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

Press \blacktriangle or \blacksquare to select **Next**.

14

Press OK, and Network Connection Test will start.

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

Network connection was completed successfully.

OK

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

To cancel the Network Connection Test: Press BACK while searching for the Internet connection. B

Press **OK**. If your country supports Network Guide, The **Guide Type** screen will appear.



Press ◀or ▶ to select Broadcast Guide or MediaGuide.

NOTE: If you select **MediaGuide**, it may take time to access the Guide screen depending on active channel numbers.

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

Ant/Cable/Satellite	
🗹 Antenna	
Cable	
Satellite	
Next	

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

- When you select **Antenna** or **Cable**, follow steps 17 to 20.
- When you select Satellite, skip to step 21.
- 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.

(B) Press \blacktriangle or \blacktriangledown to highlight **Start Scan**, and then press **OK**.

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

You must allow the television to complete the search.

Auto Tuning	- Antenna	
Pr		
DTV Tune	3 % 🗖	2
ATV Tune	Waiting	
	Channel: C7	

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

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



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

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

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

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

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

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

Satellite S	ettings				
Switch Ty	/pe	•	None		•
LNB Pow	er		On		
No.	Satellite	Di	sh	LNB	
1	ASTRA 19.2°E		1	1	
2					
3					
4					
Transponde Dish Type: Lower LOF: Upper LOF:	9750				
	Do	one			

NOTE:

- None is being used when the satellite dish will control only one universal Low Noise Block (LNB) with a single satellite (e.g. Astra 19.2°). As a rule, most households use just one satellite.
- ToneBurst sends a 22kHz signal. ToneBurst is only necessary for simple LNBs (not universal LNBs). The 22kHz signal is needed for switching LNBs with multifeed signals as well as for changing between low- and high-band.
- **DisEqC 2way** automatically switches between two LNBs, which receive different satellites at the same time (e.g. Astra 19.2° and Hotbird 13°).
- **DiSEqC 4way** automatically switches between up to four LNBs / satellites.
- **Single cable** is selection and control of plural Satellite antennas through the combined single antenna cable.

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



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



Once you have selected a satellite, you can change further settings under **Dish** and **LNB**. Press **OK** / ◀ ▶ to select **Dish** or **LNB**. Press **OK**

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

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

Satellite Settings				
Switch Type		No	ne	
LNB Pow	er	On		
No.	Satellite	Dish	LNB	
1	ASTRA 19.2°E		1	
2				
3				
4				
Transponde Dish Type: I Lower LOF: Upper LOF:	9750			
	Doi	ne		

Highlight Done and press OK.

19

22

Positioning Satellite : ASTRA 19.2	2°E	
Transponder	1/83 (10743	MHz H)
Go to 0		
Go to Stored Position	n	
Step Size	1	
Positioning	٩W	E≻
s	Store Position	
Signal Level		

Press **A** or **V** to highlight **Positioning**, and then press ✓ or ▶ to find the dish position with the strongest signal level.

Press **A** or **V** to highlight **Store Position** and press **OK** to store the dish position. Repeat steps 21 and 22 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. The signal level strength is displayed from 0% to 100%. A high signal level can be achieved by adjusting the satellite dish the best way possible.

Signal Level

Highlight Done and press OK.

23

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

Auto Tuning - Satel	lite				
	Start	Scan			
Satellite			AS	5TRA 19.2°E	
Search Option				Free to Air	•

You can select Search Option from Free to Air and AII.

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

24 Press **A** or **V** to highlight **Start Scan**, and then 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.

25

Use \blacktriangle or $\mathbf{\nabla}$ to move through the list to select a channel, and then press OK to view.

PLEASE NOTE

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

Ant/Cable/Satellite (if available)

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

- 1 Press **MENU** / **I** to highlight **Setup** icon.
- 2

Press **A** / **I** to highlight **System Setup** icon and press OK.

3 Press ▼ 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.

4

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

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

Auto Tuning			
Tuning Mode	DTV and ATV		
Start	Scan		
DTV			
Operator Selection	Others		
Scan Type	 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.

Operator Selection:

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

DTV Scan Type:

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

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

DTV Start Frequency:

This sets the frequency from which the scan will begin.

DTV End Frequency:

This sets the frequency at which the scan will end.

DTV Modulation:

You can choose from five QAM modulation settings.

DTV Symbol Rate:

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

DTV Network ID:

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

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** / **I** to highlight **Setup** icon.

2

Press \blacktriangle / \blacktriangleleft to highlight System Setup icon and press **OK**.

Press ▼ to select Satellite Settings and press OK.

Satellite Settings				
Switch T	уре	No	ne	
LNB Pow	ver	0	'n	
No.	Satellite	Dish	LNB	
1	ASTRA 19.2°E	1	1	
2				
3				
4				
Transpond Dish Type: Lower LOF Upper LOF	: 9750			
	Don	e		

- Press ▼ to highlight a new line to add an another satellite and press OK.
 - Press $\mathbf{\nabla}$ 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.



5

Press the **RED** button. A confirmation window will appear.



Press ◀ or ▶ to select Yes and press OK.

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

³

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.
- B Press ▼ to highlight LNB Power and press ◀ or ► to select On or Off.

To add a transponder:

1

In the **Satellite Settings** menu, press \blacktriangle or \checkmark to highlight the line you want to edit and press **OK**.

ASTRA 19.2°E 1 1

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

Transpon	Transponder Settings					
	Frequency	Polarisation	Symbol Rate	S/S2		
1	10743	н	22000	S		
2	10773	н	22000	S		
3	10788	V	22000	S		
4	10817	V	22000	S		
5	10832	Н	22000	S		
6	10847	V	22000	S		
7	10861	н	22000	S		
8	10876	۷	22000	s,		

B

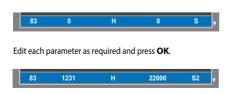
Press **A** to highlight a new line.

Transp	Fransponder Settings										
	Frequency	Polarisation	Symbol Rate	S/S2							
76	12640	н	22000	S							
77	12662	Н	22000	S							
78	12669	v	22000	S							
79	12692	Н	22000	S							
80	12699	v	22000	S							
81	12721	Н	22000	S							
82	12728	v	22000	S							
83											

4

6

Press OK.



To delete a transponder:

In the Transponder Settings menu, press ▲ or ▼ to highlight the line you want to delete.



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 I or b to select Frequency, Polarisation, Symbol Rate or S/S2, and set the item using the number buttons if necessary.
- B Press **OK** to save your settings.
- A 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 \blacktriangle or \checkmark to select the required satellite line and press **OK**.



Press **◀** or **▶** to highlight **Dish** and press the **GREEN** button.

Dish Settings			
Dish : 1			
Dish Type	•	Fixed	•

B 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 \blacktriangle or \checkmark to select the required satellite line and press **OK**.



Press **◄** or **▶** to highlight **LNB** and press the **GREEN** button.



B

Press \blacktriangle or \blacktriangledown 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** / **I** to highlight **Setup** icon.



Press \blacktriangle / \blacklozenge to highlight System Setup icon and press OK.



Press \blacktriangle or \blacksquare to select **Auto Tuning** and press **OK**.

System Setup	
Menu Language	English
Country	Germany
Ant/Cable/Satellite	
Satellite Settings	
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	

4

For DTV/ATV Tuning:

Press ◀ or ▶ to select Yes and press OK.

Auto Tu	ning - Antenna			
Tuning I	Node	•	DTV and ATV	Þ
	Start	Scar		

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

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

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

You must allow the television to complete the search.

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

For Satellite Tuning:

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

uto Tuning - Sate	llite				
	Start	Scan			
Satellite			AS	rra 19.2°E	
Search Option		•	F	ree to Air	•
		•			

Press \blacktriangle or \checkmark to highlight **Satellite** and press \blacktriangleleft or \triangleright 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.

Б Р

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

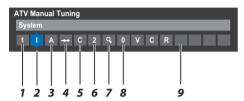
Englist

ATV Manual Tuning

Tuning

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

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



1 Position

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

2 System

Specific to certain areas.

3 Colour System

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

4 Skip

Set Skip to On (\clubsuit) or Off (\rightarrow) for the selected channel. See page 25.

5 Signal Class

The channel classification.

6 Channel

The channel number on which a station is being broadcast.

7 Search

Search up and down for a signal.

8 Manual Fine Tuning

Only used if interference/weak signal is experienced. See page 89.

9 Station

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

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

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

System Setup	
Menu Language	English
Country	Germany
Ant/Cable/Satellite	
Satellite Settings	
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	v



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

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

Different Channel numbers may be displayed.

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



3

Press \blacktriangleright to select **System** and press \blacktriangle or \triangledown to change if required.

ATV Manual Tuning			
System			
1 <mark>1</mark> A ↔ C 2 Q 0			

- 5 Then press ► to select Search.
- 6 Press ▲ or ▼ to begin the search. The search symbol will flash.

ATV Manual Tuning			
Search			
1 I A ↔ C 2 🤦 0			

- 7 Each signal will show on the television. If it is not your media recorder, press \blacktriangle or $\mathbf{\nabla}$ again to restart the search.
- 8 When your media recorder signal is found, press b to move along to **Station**. Use \blacktriangle , \bigtriangledown , \triangleleft and \triangleright to put in the required characters, e.g. VCR.

ATV Manual Tuning
Station
1 I A ↔ C 2 Q 0 V C R

- 9 Press OK to save.
- 10 Repeat for each position you want to tune.
- M 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.

1

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



Press ► to select Skip.

4

Use ▲ or ▼ to turn Skip on. Press OK.

• on the screen indicates a skipped position.

ATV	Man	ual ⁻	Funir	ıg							
Ski	p: Or	۱									
1		Α	<u>-</u>	С	2	٩	0				

5

Press BACK and repeat from Step 2 or press EXIT.

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

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

² Use \blacktriangle or $\mathbf{\nabla}$ to highlight the position to be skipped and press **OK** to select.

Sorting positions

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



2

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 ►.

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

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

4

Repeat as necessary and press EXIT.

DTV Manual Tuning

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

Manual Tuning

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



Select DTV Manual Tuning from the System Setup menu and press OK.

DTV Manual Tuning - Antenna					
Signal Strength	WEAK		AVERAGE	STRONG	
Quality	GOOD				
Channel			6	7	
Frequency			842.0	MHz	
Bandwidth			8 M	Hz	
	Star	Sca			

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



4

2

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

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

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

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:

DTV Manual Tuning - Satellite						
Signal Si	renath	WEAK	AVE	RAGE	STRONG	
Quality	licitgui	POOR				
	Satellite			ASTR/	A 28.2°E	
	Transpo	nder		1	/83	
	Frequen	су		1071	4 MHz	
	Symbol	Rate		2200	0 KS/s	
	Polarisa	tion			н	
	Search (Option		Free	to Air	
		Star	t Scan			

Use \blacktriangle or \lor to highlight an item (Satellite, Transponder, Frequency, Symbol Rate, Polarisation or Search Option) and press \blacktriangleleft or \triangleright to select the required option.

Highlight Start Scan and press OK.

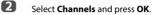
DTV Settings

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**.



DTV Settings			
Channels			
Subtitle and Audio			
Parental PIN Setup	Parental PIN Setup		
Parental Control			
Local Time Setting			
Standby Channel Update	Off		
Dynamic Scan	Off		

³

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

Channels		Antenna TV	
Pos.	Name		-@+
1	ABC ONE		
2	ABC TWO		
7	ABC THREE		
30	CABC Channel		
40	ABC NEWS 24		
51	ABCi		
822	AA		
823	AC		_

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

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

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



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

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

Channels Line No.	1/10	Antenna TV	
	lame		-@+
<mark>√</mark> 1	ABC ONE		
2	ABC TWO		
7	ABC THREE		
30	CABC Channel		
40	ABC NEWS 24		
51	ABCi		
822	AA		
823	AC		

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



Channels (Satellite)

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

Select Channels and press OK.

The satellite channel list will appear.

Chanr L	nels Line No. 3/20	Satellite TV	
Pos.	Name	Satellite	-@+
1	DDD	19.2°E 📃	
2	AB	19.2°E 📃	
3	E	19.2°E 📃	-0+
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 📃	V

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

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

Satellite Jump — Press I or ► to jump to the next channel on a different Satellite.

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

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

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

1

2

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

Press ▼ to select Standby Channel Update 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.

1

Select Location from the System Setup menu.

2 P

Press ◀ or ▶ to select Home or Store.

Analogue switch-off

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

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

General controls

Quick Menu

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

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

Quick Menu			
Picture Mode	•	AutoView	►
Picture Size		Super Live	
3D Settings			
More Information			
Channel Options			
Sleep Timer	ep Timer 00:00		
HDMI CEC Device Control			
Speakers		TV Speakers	

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 39.
programme or pictures from the	Picture Size	See page 37.
external input	3D Settings	See page 31.
Single Window or	More Information	See page 76.
3D Single Window of	Channel Options	See page 80.
_	Sleep Timer	See page 75.
	HDMI CEC Device Control	See page 85.
	Speakers	See page 86.
	Headphone Level	See page 36.
	Intel® Wireless Display	See page 65.
	Wireless Information	See page 47.
	Recording Information	See page 76.
When using EPG	Genre Colour	See page 77.
USB Media Player	Picture	See page 39.
(Photo Single View, Slide Show)	3D Settings	See page 31.
Silde Silow)	Sound	See page 35.
	Interval Time	See page 68.
	Repeat	See page 68.
	Background Music	See page 69.
	Play List	See page 69.
	Sleep Timer	See page 75.
	Speakers	See page 86.
	Headphone Level	See page 36.

Selecting channels

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

Channels can also be selected using **P**^ and **P**~.

To display on-screen information such as channel, input mode or stereo/mono signal, press (i+). 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 ()/ whilst watching a normal television broadcast to see the time display from the broadcaster. It will remain on screen for about 5 seconds.

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

Stereo and Bilingual transmissions

For DTV programmes

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

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

For multi-audio track broadcasts, press OI/I repeatedly to change the audio language (see "Audio languages" on page 81).

For ATV programmes

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

Stereo... Press OI/I to select Stereo or Mono.

Bilingual... Bilingual transmissions are rare. If they are transmitted, the word **Dual** will be displayed. Choose the required programme number, and if the word **Dual** appears, press D[/] to select **Dual 1**, **Dual 2** or **Mono**.

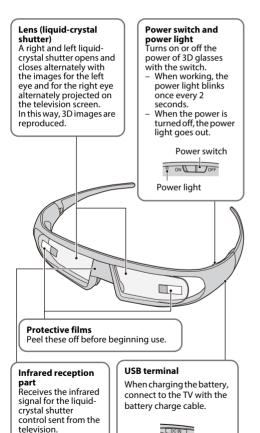
Before using 3D programming, see and follow "3D Information" section on page 100.

Viewing 3D programming requires the following:

- TOSHIBA 3D Glasses FPT-AG02G UL series (supplied) TL series (not supplied)
- Compatible 3D playback device or 3D source
- 3D capable high quality HDMI cable

Using the 3D glasses

Names and functions



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.

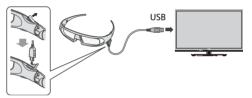
NOTE: If the infrared data communication between the television and 3D glasses is lost for 5 minutes, the 3D glasses turn off automatically to preserve battery life.

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 not charged.
- 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:

3

- 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 behavior 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 33). Otherwise you can change the viewing mode using the 3D button. Finally, the format of the 3D signal can be either Side by Side (SBS) or Top and Bottom (TB). You may have to choose the correct format if the TV can not detect it automatically – see "Switching display mode or selecting 3D format".

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

NOTE:

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

Switching display mode or selecting 3D format

English

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 TB. 3D formats are the following.

3D format	Description	
Side by Side (SBS)	Images for the left and right eyes are positioned side-by-side.	
Top and Bottom (TB)	Images for the left and right eyes are positioned at the top and bottom of the screen.	
Frame Packing (FP) *	Image for the left and right eyes for two frames are positioned at the top and bottom of the screen.	
* This format	cannot be selected manually.	

The 3D button's operation

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

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

To switch to 3D mode:

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

Trigger of Switch Display M Input Signal			5	Press 3D	button
Туре	Additional Information	Format	Source Signal	Select 3D	Select 2D to 3D
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D	* 3D	
		SBS	3D 3D	* 3D	
		ТВ	610) 610	* 3D	
	Without 3D Auto Detect	SBS	3D 3D	* 3D	3D 3D
	Information	ТВ	80 60	3 1 1 1 1	SD SD
2D Forn	2D Format Signal			D 3	* <u>3D</u>

* Correct 3D image

Т

4

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

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

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

	Tri	Quick me	nu		
Input Si	gnal			3D Forma	t Select
Туре	Additional Info	Format	Source Signal	SBS	ТВ
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D		
		SBS	3D 3D		
		ТВ	SD SD		
	Without 3D Auto Detect	SBS	3D 3D	* 3D	עס עס הפ הפ
Information		ТВ	SD	3 2 2	* 3D
2D Form	nat Signal		3D	D 3	חט חפ

* 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.

Input Sig	Press 3D button			
Туре	Additional Info	Format	Source Signal	Dutton
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D	* 3D
		SBS	3D 3D	* 3D
		ТВ	sd Sd	* 3D
	Without 3D Auto Detect	SBS	3D 3D	3D 3D
	Information	ТВ	SD SD	50 50
2D Format Signal		3D	* 3D	

* Correct 2D image

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

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

Press ◀ or ▶ to select Native, Side by Side (SBS) or Top and Bottom (TB).

Trigger of Switching Display Mode		Quick me	enu			
Input 9	Signal	_		2D Form	at Select	
Туре	Additional Info	Format	Source Signal	SBS	ТВ	Native
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D			
		SBS	3D 3D	* <u>3D</u>		3D 3D
		ТΒ	80		* 3D	60 610
	Without 3D Auto Detect	SBS	3D 3D	* 3D	חפ חפ	3D 3D
	Information	ТВ	30) 30)	00	* 3D	RD RD
2D For	mat Signal		3D	3	וחצ	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 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 sianal.

П Press **MENU** / **I** to highlight **Setup** icon.

- 2 Press \blacktriangle / \checkmark to highlight **Preferences** icon and press OK.
- B

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

Preferences		
3D Setup		
Recording Setup		
HDMI CEC Control Setup		
Network Setup		
TV Guide Selection		
Network Device Setup		
Teletext	Auto	
Network Lock	Off	1
		1

Δ

Press A or V to select 3D Auto Start.



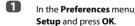
Press ◀ or ► to select **3D**, **2D**, or **Off**.

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.

Adjusting 2D to 3D Depth

You can adjust the level of 3D.

From the Menu:



In the Preferences menu, press A or V to select 3D

- 2 Press \blacktriangle or ∇ to select **2D to 3D Depth** and press **OK**.
- B Press **◄** or **▶** to select **1**, **2**, **3**, **4**, or **5**.

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

From the Quick Menu:



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

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

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

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

Setting the 3D PIN code

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

To enter a new PIN code:

- 1 In the **Preferences** menu, press **A** or **V** to select **3D** Setup and press OK.
- 2 Press ▲ or ▼ to select **3D PIN** and press **OK**.
- 3 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:

- 1 In the **Preferences** menu, press **A** or **V** to select **3D** Setup and press OK.
- 2 Press ▲ or ▼ to select 3D PIN and press OK.
- 3 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.

2

B

4

6

OK.

Engl		Setting 3D Start Message		Set
		this feature is set to On, a message is displayed onscreen when a 3D signal is received.	exte	his feature hel nded periods c ialogue will be
	1	In the Preferences menu, press ▲ or ▼ to select 3D Setup and press OK .	0	In the Pre
	2	Press ▲ or ▼ to select 3D Safety Settings and press OK .	2	Press 🛦 o
	3	Enter your 4-digit 3D PIN code.	-	OK.
	4	Press ▲ or ▼ to select 3D Start Message .	3	Enter you
	5	Press \blacktriangleleft or \blacktriangleright to select On or Off .	4	Press 🛦 o
		Setting 3D Lock	5	Press 🗲 o
	When	this feature is set to On, you must enter 3D PIN code for changing display mode.	6	To cancel
	1	In the Preferences menu, press ▲ or ▼ to select 3D Setup and press OK.		Displa
	2	Press \blacktriangle or \blacksquare to select 3D Safety Settings and press OK .	1	In the Pre Setup and
	3	Enter your 4-digit 3D PIN code.	2	Press ▲ o OK.
	4	Press \blacktriangle or \blacktriangledown to select 3D Lock .		Switch
	5	Press ◀ or ▶ to select On .		he left and rig oped. If 3D ima
		Setting 3D Timer Lock	1	Press QUI
	windo Enable	he 3D Timer Lock feature is set to On, neither the PIN input w nor the 3D start message will be shown while the 3D e timer is active, even if a switch to 3D Mode occurs. This a avoid asking for the 3D Lock PIN and displaying 3D start message every time when switching to 3D.	2 3	Press ▲ o Press ▲ o
	NOTE:	This feature cannot be selected until the 3D PIN is set.	4	Press 🗲 o
	1	In the Preferences menu, press ▲ or ▼ to select 3D Setup and press OK.		

Press ▲ or ▼ to select 3D Safety Settings and press

Enter your 4-digit 3D PIN code.

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

Press ▲ or ▼ to select 3D Timer Lock.

Setting Enable 3D Timer

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

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

Displaying 3D Important Info

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

Switching left and right images

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

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

Volume controls and sound mute

Volume

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

Sound Mute

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





Press \blacktriangle / \triangleleft to highlight **Sound** icon and press **OK**.



Press \blacktriangle or \triangledown to select **Dual** and press \blacktriangleleft or \triangleright to choose between **Dual 1** or **Dual 2**.

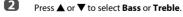
Sound			
Dual	٩	Dual 1	►
Balance	0 -	I	_
Advanced Sound Settings			
Stable Sound		Off	
Dynamic Range Control		On	
Audio Level Offset			
TV Speakers		On	
Headphone Settings			

Balance

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



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



B Press **◄** or **▶** to change the setting.

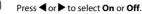
Voice Enhancement

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



1

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



Dynamic Bass Boost

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

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

Stable Sound®

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

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

Dynamic Range Control

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



- In the Sound menu, press ▲ or ▼ to select Dynamic Range Control.
- Press ◀ or ► to select On or Off.

Audio Level Offset

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



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

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

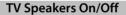
In the Sound menu, press ▲ or ▼ to select Audio Level Offset and press OK.

Press ▲ or ▼ to select an option, and then press ◀ or
 to adjust the volume level.



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.



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

In the **Sound** menu, press ▲ or ▼ to select **TV Speakers**.

2 Press ◀ or ► to select Off.

To turn on the built-in speakers:

Choose **On** in step 2.

Headphone Settings

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

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



R

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 \blacktriangleleft or \blacktriangleright to adjust the headphone sound.

Headphone Settings			
Speaker Link	<	On	►
Headphone Level	50		-1

Audio Description

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



In the **Sound** menu, press \blacktriangle or \triangledown to select **Audio Description** and press **OK**.



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

Audio Description			
Audio Description	<	On	►
Mixing Level	50		

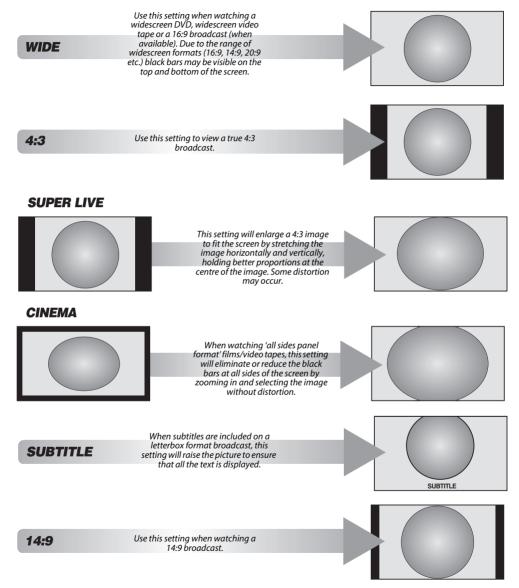
The **AD** button on the Remote can also be used to toggle the **Audio Description** feature between On and Off.

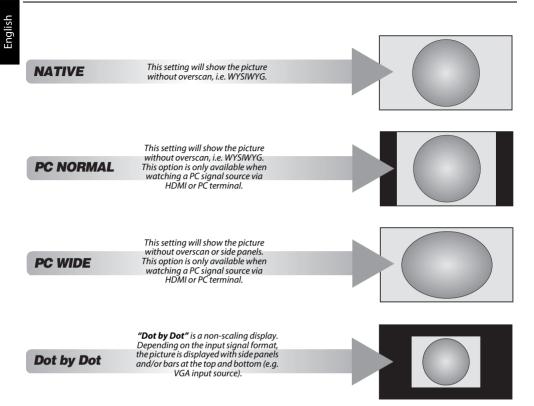


To adjust the level of the audio description sound to the main sound, highlight **Mixing Level** and press ◀ or ►.

Widescreen viewing

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

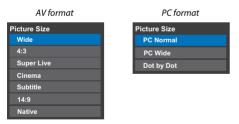




Press the 🛃 button on the Remote to display the list of available widescreen formats.

Press the button repeatedly to highlight the required format.

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



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

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.

Auto View, 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 is grayed out when it is selected.
- Store mode is only available when Location is set to Store.
- Game mode is available in external input mode (other than aerial input). When you select Game mode, suitable widescreen formats will be selected.
- **PC** mode is available in RGB/PC input mode or HDMI input mode.

Press MENU / ◀► to highlight Setup icon.



4

Press \blacktriangle / \blacklozenge to highlight **Picture** icon and press **OK**.

Press **A** or **V** to select **Picture Mode**.

Picture	
Picture Mode	
Reset	
Backlight	0 <u> </u>
Contrast	100 ———————————————————————————————————
Brightness	0 <u> </u>
Colour	0 <u> </u>
Tint	0 <u> </u>
Sharpness	0 <u> </u>

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.

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.



 \mathbf{D}

Press **V** to select **ColourMaster**.

Advanced Picture Settings			
ColourMaster	•	Off	►
Base Colour Adjustment			
Colour Temperature			
Auto Brightness Sensor		Off	
Active Backlight Control		Low	
Black/White Level		Middle	
Noise Reduction			
Resolution+		On	

B Press

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.

П 1 In the Advanced Picture Settings menu, press A or In the Advanced Picture Settings menu, press A or ▼ to select Base Colour Adjustment and press OK. 2 2 Press ▲ or ▼ to select an option and press ▶ to move to the adjustment window. Base Colour Adjustment Red 0 n 0 Green 0 0 0 Blue 0 0 0 n Yellow 0 0 0 Magenta n 0 0 Cyan 0 0 0 2 Press ◀ or ▶ to select High, Low or Off. Reset ß Press **d**or **b** to select **Hue**, **Saturation** or **Brightness** bright scene or dark scene and press \blacktriangle or ∇ to adjust the settings as required. Hue Saturation Brightness Red Λ _1 4 Press BACK to return to the previous menu. П To return to the factory settings, select Reset and press OK. 2 Colour Temperature Colour Temperature increases the "warmth" or "coolness" of the picture by increasing the red or blue tint. 1 In the Advanced Picture Settings menu, press A or ▼ to select Colour Temperature and press OK. 2 1 Press A or V to select Colour Temperature and press < or b to select Cool, Natural or Warm to suit your preference. 2 3 Press **A** or **V** to select **Red Level**, **Green Level** or Blue Level and press ◀ or ► to adjust the level. NOTE: To return the adjustments to the factory defaults, select Reset and press OK. 3

Auto Brightness Sensor

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



▼ to select Auto Brightness Sensor.

Press ◀ or ► to select On or Off.

Active Backlight Control

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

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

Black/White Level

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

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

Press I or to select High, Middle, Low or Off.

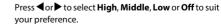
MPEG NR – Noise Reduction

When watching a DVD, the compression may cause some words or picture elements to become distorted or pixelated. Using the **MPEG NR** feature reduces this effect by smoothing out the edaes.

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

Press **V** to select **MPEG NR**.

Noise Reduction			
MPEG NR	<	Low	►
DNR		Auto	



DNR – Digital Noise Reduction

DNR allows you to "soften" the screen representation of a weak sianal to reduce the noise effect.



Select DNR from the Noise Reduction menu.

2 Press for 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.

ก

In the Advanced Picture Settings menu, press A or ▼ to select **Resolution**+ and press **OK**.

2

Press I or to select On

NOTE:

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

Clear Scan

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



In the Advanced Picture Settings menu, press A or to select Clear Scan.



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

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

Resetting the advanced picture settings

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





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.

1

In the **Picture** menu, press \blacktriangle or $\mathbf{\nabla}$ to select **Expert** Picture Settings and press OK to display Expert Picture Settings menu.





Press ◀ or ► to select On.

Α 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.

- 1
 - In the **Expert Picture Settings** menu, press **A** or **V** to select RGB Filter and press OK.
- 2 Press ▲ or ▼ to select **Red**, **Green** or **Blue** to adjust.
- 3 Press \triangleleft or \triangleright to select **On**.



Press ▲ or ▼ to select Colour or Tint and press ◀ or ▶ to adjust.

5 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 **A** or **V** to select Colour Decoding.

2 Press ◀ or ► to select Auto, BT601 or BT709.

П

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 \blacktriangle or \blacktriangledown to select **Window Display** and press \blacktriangleleft or \triangleright 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 **V** to select **2P White Balance**.

Press ▲ or ▼ to select Red-Offset, Green-Offset, Blue-Offset, Red-Gain, Green-Gain, or Blue-Gain.



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.)

Gamma Calibration

Toshiba has integrated an picture calibration systems into its LCD televisions. Now you can enjoy the benefits of automatically calibrated gamma and white levels. In order to take advantage of these features the Toshiba colour analyzer TPA-1 is required.



In the **Expert Picture Settings** menu, press \blacktriangle or \triangledown to select **Gamma Calibration** and press **OK**.

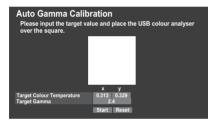
2

Press ▲ or ▼ to select **Apply Calibration** and press ◀ or ▶ to select **Enabled**.

B Press ▲ or ▼ to select Auto Gamma Calibration and press OK.

Connect the USB colour analyzer to the USB 1 or USB 2 port.

5 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 \blacktriangle or \blacktriangledown to select **Reset** and press **OK**.

A confirmation screen appears.



Select Yes and press OK.

Automatic Format (Widescreen)

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



- Press ▲ / ◀► to highlight Preferences icon and press OK.
- B Press ▲ or ▼ to select **Display Settings** and press **OK**.



Press \blacktriangle or \lor to select **Auto Format** and press \blacktriangleleft or \triangleright to select **On** or **Off**.

Auto Format	<	On	Þ
4:3 Stretch		Off	
Picture Position			

4:3 Stretch

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



2

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.

NOTE: The **Picture Position** feature cannot be selected in the DTV mode.



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



Press \blacktriangle or \blacksquare to select **Picture Position**.

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



Press **OK** to view the options available for the picture format that has been selected.

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

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

Picture Position	
Horizontal Position	0 — 1 —
Vertical Position	0 1
	Reset

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

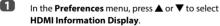
Picture still

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

Press 💌 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 button displays the HDMI signal information banner.



2

1

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).

Wireless LAN Information

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

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

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

Wireless LAN and your Health

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

Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is 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
СҮ	Cyprus	LU	Luxembourg
cz	Czech Republic	LV	Latvia
DE	Germany	МТ	Malta
DK	Denmark	NL	Netherlands
ES	Spain	NO	Norway
FI	Finland	PL	Poland
FR	France	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.
- Make the wireless LAN appropriate security setting at the time of wireless LAN use to prevent the illegal use, spoofing and interception of communications.
- Don't connect wireless LAN to a outside network directly. Apply the wireless LAN access point with router function or broadband router. Make the router appropriate security setting to prevent the illegal use.

Refer to the manual of router for a security setting.



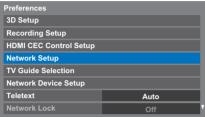
Setting up the Network

You can select the Network Type.

- Press MENU / ◀► to highlight Setup icon.
- 2
- Press ▲ / ◀▶ to highlight **Preferences** icon and press **OK**.
- 3

5

Press ▲ or ▼ to select Network Setup and press OK



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

Network Setup			
Connection Type	٩	Wired	►
Wireless Setup			
Advanced Network Setup			
Network Connection Test			

If you selected **Wired**, see "Advanced Network Setup" on page 48.

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

Wireless Setup

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

There are 3 methods for Wireless Setup Easy Setup (WPS)

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

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

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

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

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

Manual Setup (manual input of all settings)

Easy	Setup using PBC (Push Button Configuration)
1	In the Preferences menu, press ▲ or ▼ to select Network Setup and press OK .
2	Press \blacktriangle or \blacktriangledown to select Wireless Setup and press OK.
3	Press \blacktriangle or \blacksquare to select Easy Setup and press OK .
	Wireless Setup Easy Setup Assisted Setup Manual Setup
	manual Setup
4	Press ◀ or ► to select PBC .
5	Press $\mathbf{\nabla}$ to highlight Start Scan and press OK .
6	Following the on-screen instructions, push the appropriate button on your AP.
7	When a window reporting that the setup is complete appears, press OK .
Easy Num	Setup using PIN (Personal Identification ber)
1	In the Preferences menu, press ▲ or ▼ to select Network Setup and press OK .
2	Press ▲ or ▼ to select Wireless Setup and press OK.
3	Press ▲ or ▼ to select Easy Setup and press OK .
4	Press ◀ or ▶ to select PIN .
5	Press ▼ to select Start Scan and press OK .
6	Press \blacktriangle or \blacktriangledown 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.
7	When the PIN code window appears, enter the

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

To cancel searching for the AP:

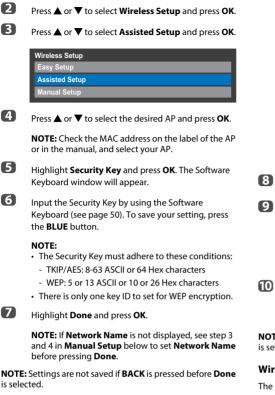
Press **BACK** while searching for the AP. A message will appear, and then press **◄** or **▶** to select **Yes** and press **OK**.

Assisted Setup



In the **Preferences** menu, press \blacktriangle or \triangledown to select **Network Setup** and press **OK**.

46



Manual Setup

7

- In the Preferences menu, press ▲ or ▼ to select Network Setup and press OK.
- Press ▲ or ▼ to select Wireless Setup and press OK.
- B Press \blacktriangle or \checkmark 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 50). 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 \blacktriangle or \triangledown to select **Encryption** and press \blacktriangleleft or \triangleright to select **None**, **WEP**, **TKIP** or **AES**.

NOTE:

- Certain encryption types are only compatible with specific authentication types.
 - When Authentication is Open System, only WEP or None is compatible.
 - When Authentication is Shared Key, only WEP is compatible.
 - When Authentication is WPA-PSK or WPA2-PSK, only TKIP or AES is compatible.
- When incompatible Authentication/Encryption pairings are detected, a warning message will be displayed, and no connection attempt will be made until the incompatibility is resolved.
- There is only one key ID to set for WEP encryption.
- Press ▲ or ▼ to select Security Key and press OK.
- Input the Security Key by using the Software Keyboard (see page 50). To save your setting, press the **BLUE** button.

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

D Highlight Done and press OK.

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

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

Wireless Information

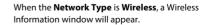
1

B

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.

00:00
TV Speakers
50 ——— ———



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

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

NOTE: Even if an AP for IEEE 802.11n is used when **Encryption** is set to **WEP** or **TKIP**, the Speed value might be low. It is recommended that **Encryption** be changed to **AES** (see "Manual Setup" on page 47).

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

2

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

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

Network Setup	
Connection Type	Wired
Wireless Setup	
Advanced Network Setup	

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

Advanced Network Setup
IP Address Setup
DNS Setup
MAC Address

4

Highlight **Auto Setup** and press **◄** or **▶** to select **On**.

IP Address Setup							
Auto Setup	•			On	1		►
IP Address							
Subnet Mask		ххх	ххх		ххх	ххх	
Default Gateway							

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

Manual Setup



2

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**.

¹

³

4 Highlight Auto Setup and press ◀ or ► to select Off.

IP Address Setup							
Auto Setup	◀			Of	F		►
IP Address		xxx	xxx		xxx	xxx	
Subnet Mask		xxx	xxx		xxx	xxx	
Default Gateway		xxx	xxx		xxx	xxx	



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.



8

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

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

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.

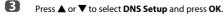
Auto setup



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



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





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

Manual setup

1 In the **Preferences** menu, press **A** or **V** 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	◀			Off			►
Primary DNS Address		xxx	ххх		ххх	xxx	
Secondary DNS Address		xxx	ххх		ххх	ххх	



3

4

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

MAC Address

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

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

Network Connection Test

This function checks the Internet connectivity.

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

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

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

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:

1

ก

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



Press **OK**.





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

4

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.
BLUE	Saves changes and closes the Software Keyboard window.
ВАСК	Closes the Software Keyboard window without saving changes.

Network Device Setup

Apps Control Profile

The Apps function allows you to control the TV from network connected Apps (Tablet or Smartphone) like a remote control.

In order to use this function, the **Setting up the Network** (see page 46) and **Device Name Setup** (see page 52) is required. The Device Name will display on the screen of Apps (Tablet or Smartphone) application.

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

Preferences	
3D Setup	
Recording Setup	
HDMI CEC Control Setup	
Network Setup	
TV Guide Selection	
Network Device Setup	
Teletext	Auto
Network Lock	Off

2 Highlight External Control Setup and press OK.

B Highlight Apps Control Profile and press OK.

The Apps Control Account window will appear.

Press \blacktriangle or \triangledown to select **New Device Detection** and press \blacklozenge to select **Enable** and press **OK**.

If the Apps (Tablet or Smartphone) is unregistered yet, then authentication will start automatically and 4digit numerical code will be appear on the TV.



5

4

П

Input 4 - digit numerical code to your Apps.

If you success the authentication, 4 -digit numerical password on the TV disappears and **User Name** is stored in the TV along with the password. If not, Warning message will appear. And if the TV receives access from the same User Name, 4 - digit numerical code will be appear again on the TV.

The 4 - digit numerical password display on the TV will disappear in the following situations:

Authentication complete

- Time-out (60 seconds)
- When the **EXIT** button on the remote control is pressed

Device Registration Setup

Once a User Name has completed authentication, it is stored in the TV along with the password. The upper limit for the number of Use Names that can be remembered is 256. You can delete User Names that are stored in the TV.



 \mathbf{D}

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

Press **A** or **V** to select **Apps Control Profile** and press **OK**

The Apps Control Account window will appear.

B Press ▲ or ▼ to select to select Device Registration Setup and press the OK.

The **Device Registration Setup** window will appear and the list of User Names managed by the TV will be displayed.

- Press \blacktriangle or \checkmark to highlight the companion User Name.
- Press ▲ or ▼ to select the Cancel, All, or Delete buttons and press Done.

Using the Remote App control

The Remote Apps control supports a text input, mouse control and a touchpad control that allows you to use your Apps (Tablet or Smartphone) as a touch screen which is several operation modes.

NOTE:

- The Remote Apps control does not work under some conditions of the TV.
- The functions are ignored while the TV is in Standby.
- Some conditions are necessary to work.

TV Power On Control (Active Standby)

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

- 1
- In the **Preferences** menu, press ▲ or ▼ to select **Network Device Setup** and press **OK**.
- Press \blacktriangle or \triangledown to select **TV Power On Control** and press \blacktriangleleft or \triangleright to select **Enabled** (Active Standby).

NOTE:

- Depending on the device connected to the home network, it may take a while for the TV to turn on.
- Depending on the device connected to the home network, this feature may not work.
- If the unencrypted Wireless Setup is done, this feature can not be used.

The power consumption during Active Standby is more than it during Normal Standby.

After the change from Power On state to Active Standby, there may be a period of several ten seconds which does not receive the operation from a remote control or external apparatus.

Media Renderer Setup

The TV can be configured as a Media Renderer(DMR). When operating as a DMR, the TV displays content provided by a DMS. The selection of the media is done by DMC.

The TV can play photo, movie, or audio files when operating as a DMR.

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 \blacktriangle or \triangledown to select **Media Renderer** and press \blacktriangleleft or \triangleright to select **On**.

If request come from DMC, prompt will appear and DMR will start.

To exit the Media Renderer:

Press EXIT.

Terminology

DMS: DLNA CERTIFIED[™] Server

DMR: DLNA CERTIFIED[™] Renderer

DMC: DLNA CERTIFIED[™] Controller

NOTE: You cannot use 3D function in operating as a DMR.

Device Name Setup

The TV's device name can be changed.

- 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 50). Press the **BLUE** button.

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

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

USB HDD Record Function

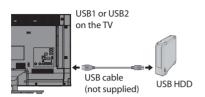
This function can be used to record and play digital broadcast programmes. Read the precautions below before recording or viewing programmes using the USB HDD record function.

NOTE:

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

Setting up the USB HDD for recording

To connect an USB HDD (not supplied):



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



Press ◀ or ► to select No and press OK.

NOTE: Not guaranteed to work with all USB HDD.

To record DTV programmes (One Touch Recording)

To record the programme currently being viewed.

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

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.

How to set recordings via the Programme Guide

English

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

PLEASE NOTE

When a timed programme is about to start, an information screen will appear offering the option of watching or cancelling the programme. Other channels will not be available during the timed programme unless the programme timer is cancelled.

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

Using the Programme Guide to set future recordings

- Press the **GUIDE** button on the remote control (or select **TV Programmes** / **Guide** menu from the menu system) to display the Electronic Programme Guide (EPG).
- 2

1

Press $\blacktriangle \lor \blacklozenge \lor$ to highlight the programme you want to record.







Press \blacktriangle or \triangledown to highlight **Timer Type** and press \blacktriangleleft or \triangleright to select **Recording**.

Press ▲ or ▼ to highlight Set Timer and press OK. The ORANGE LED will be lit. n

2

3

To search for and record a programme using Genre Search:

Press **MENU** $/ \triangleleft > / \triangleleft >$ to highlight **TV Programmes** / **Genre Search** icons and press **OK** to access the **Genre Search** screen.

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

Press \blacktriangleleft or \triangleright to select the genre. Programmes listed will change for the new genre. Press \blacktriangle or \forall to select the programme for which you want to schedule recording.

Press OK. The Edit Timer menu will appear.



- Press ▲ or ▼ to highlight Timer Type and press ◀ or
 to select Recording.
- Press ▲ or ▼ to highlight Set Timer and press OK. The ORANGE LED will be lit.

To programme the timer:

Press MENU / ◀ ► / ▲ / ◀ ► to highlight TV Programmes / Programme Timers icons and press OK.

Select the unprogrammed column (blank column) and press OK. The Edit Timer menu will appear.

Edit Timer	10:50 Tue, 26 Apr
Timer Type	✓ Recording →
Channel	30 CABC Channel
Date	Tue, 26 Apr 2011
Start Time	10:51
End Time	11:51
Repeat	Once
Set Timer	Delete Timer

3

4

1

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

Select the channel you wish to record.

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

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



Press ▲ or ▼ to highlight **Set Timer** and press **OK**. The **ORANGE LED** will be lit.

To schedule a programme using the information screen:

1

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

8888 ITV1 London ASTRA 19.2°E	🐢 🔒 📲 6:00 Thu, 11 Oct
DD+ CD 🚿 AD English	
3D→2D Side by Side	
Now MLB Young's two-run triple i	eads AL over NL 6:00- 8:00
HD 16:9 d [⊄] AD 18	W News 15 min left
Next World News and Sports	8:00- 9:00
Also MLB Young's two-run triple i	eads AL over NL
💮 Char	ige

2

ก

Press \blacktriangle or \forall to select the **Next** and press **OK**. The **Edit Timer** menu will appear.

Edit Timer The Daily Politics 2 CABC Channel 11:30 - 12:30 Tue, 26 Apr		10:50 Tue, 26 4	Apr
Timer Type	•	Recording	►
Set Timer			

- Press ▲ or ▼ to highlight Timer Type and press ◀ or
 to select Recording.
- 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 / **** / **** / **** / **** b to highlight TV Programmes / Programme Timers icons and press OK. Programme Timers screen will appear.

Recording List

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

To edit a schedule:

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

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

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

whose schedule you want to delete.

To delete a schedule:

0

П

Press the **RED** button.

Press **d** or **▶** in the displayed confirmation window to select **Yes** and press **OK**. The selected schedule will be deleted.

Press \blacktriangle or \bigtriangledown on the **Library** screen to select the title

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

To view a recorded programme

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

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

Library All	🔶 14:15 Wed, 16 Feb
Sort : New	
wwwww	Wed, 16 Feb 10:00 🔺
wwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwwww	Wed, 16 Feb 10:00
wwwwww	Thu, 17 Feb 10:00
wwwwww	Thu, 17 Feb 10:00
wwwwwww	Fri, 18 Feb 10:00
wwwwww	Fri, 18 Feb 10:00 1235 ITV London
wwwwww	Fri, 18 Feb 10:00 ASTRA 19.2°E
wwwwwww	Sat, 18 Feb 10:00
wwwwww	Sun, 18 Feb 10:00 10 July 2011 14:30(01:30)
wwwwww	Sun, 18 Feb 10:00 USB HDD3
wwwwww	Sun, 18 Feb 10:00 Remaining Capacity:
wwwwww	Mon, 18 Feb 10:00 ¥ 86% (912.0GB)

Press \blacktriangle or \bigtriangledown to select the title you want to view. A preview of the content selected can be seen on the preview screen.

To change the order in which the titles are listed, press the **BLUE** button.

3

2

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 FAST FORWARD
	To STOP	₩	To SKIP-FORWARD
II/I►	To PAUSE/STEP	4 ►	To shift playback position
H H	To SKIP-BACK		
44	To REWIND		

Operations from the Library screen

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

To display the Library screen:

Press MENU / ∢ ► / ▲ / ∢ ► to highlight TV Programmes / Library icons 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. \bigcap icon appears next to the title and the programme is protected.

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

When a title with $\bigoplus_{i=1}^{n}$ icon is selected and the **GREEN** button is pressed, $\bigoplus_{i=1}^{n}$ icon disappears and the programme is unprotected.

To delete a recorded programme:

1

 \mathbf{D}

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

Press \blacktriangle or \checkmark to select the title you want to delete and press **OK**. A check mark will be inserted in the check box.

Library	
All	
Sort : New	
wwwww	We
🔒 wwwwwwwwwwww	We
wwwwwww	П
wwwwww	T
wwwwwww	
wwwwwww	
wwwwwww	
wwwwww	s

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

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

NOTE:

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

3

Press the **RED** button.

Select **Yes** in the confirmation window and press **OK**. All the titles with check marks will be deleted.

USB HDD capacity

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

Fri, 18 Feb 10:00	
Fri, 18 Feb 10:00	1235 ITV London
Fri, 18 Feb 10:00	ASTRA 19.2°E
Sat, 18 Feb 10:00	
Sun, 18 Feb 10:00	10 July 2011 14:30(01:30)
Sun, 18 Feb 10:00	USB HDD3
Sun, 18 Feb 10:00	Remaining Capacity:
Mon, 18 Feb 10:00	86% (912.0GB)
	· · · · · · · · · · · · · · · · · · ·

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

Recording Setup

You can set your preferences for recording.

To select USB HDD and Partition for Recording:

1

Press MENU / < > to highlight Setup icon.



Press ▲ / ◀ ▶ to highlight **Preferences** icon and press OK.

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



4 Press ▲ or ▼ to select Select Device and press OK. USB HDD and Partition list will be appear.

If USB HDD is partitioned by PC, several partitions will be displayed.

6

3

Select USB HDD and Partition you want to recording.

To set the recording time for One Touch Recording:



Press **MENU** / **< >** to highlight **Setup** icon.



```
Press ▲ or ▼ to select Recording Setup and press OK.
```

4 Press ▲ or ▼ to select One Touch Recording Time.

Recording Setup	
Select Device	
One Touch Recording Time	✓ Programme End Time →
TimeShift Size	512 MB
Start Padding Time	None
End Padding Time	None
Device Test	
Format Device	

6 Press \triangleleft or \triangleright 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 select the TimeShift Size:

- n In the **Recording Setup** screen, press **A** or **V** to select TimeSift Size.
- \mathbf{D} Press I or to select 512MB, 1GB, 2GB or 4GB and press OK.

To use TimeShift recordina:

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

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

1

Press IVII on the remote control while viewing the DTV programme.

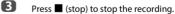
The screen will switch to a still image and recording will start automatically.

The recording time is decided by TimeShift Size. If the TimeShift file size reaches the limit set, then the TV will continue to be paused, but the recording buffer will be reset to the beginning.



Press (play).

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



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**, 3 minutes, 5 minutes, 10 minutes, 15 minutes, 30 minutes, and 45 minutes.

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



2

Press ▲ or ▼ to select End Padding Time.

Press ◀ or ▶ to select a time.

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

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

To perform a USB HDD operation test:



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

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

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

To format a USB HDD:

1

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

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

NOTE:

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

Scheduling priority

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

 When Start Padding Time and End Padding Time are set (see page 58), 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 58), 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.

Using Toshiba Places

Discover new, exciting possibilities with Toshiba Smart TV - because just watching television is a thing of the past!

TV used to be: sit down, relax and watch television. Toshiba Smart TV today is: sit down, relax, watch television and much, much more! Enjoy new possibilities, such as surfing the Web, chatting, browsing social networks, photo communities, video portals, news, sports results... the possibilities are almost endless and are increasing all the time.

Stay entertained and informed with Toshiba Places.

In order to make it as simple as possible to access a wide variety of new content as simple as possible, we created Toshiba Places. This is a portal for music, video and more on your Toshiba Smart TV. Experience plenty of interactive applications and transform your television into a true multimedia centre! You can access a wealth of attractive services right now. But we don't stand still - more interesting and up-to-date services are added all the time!

NOTE: You need to configure a home network before using this feature (see page 13).



Press 🕤 on the remote control, or press **MENU** / **♦** to highlight **Toshiba Places** icon and press **OK**.





Press $\blacktriangle \lor \blacklozenge$ 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 Web Browser

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

NOTE:

- · Certain services may not be currently available in your area.
- Your registration or login may be required to use some services.
- Third party internet services are not provided by Toshiba, may change or be discontinued at any time and may be subject to Internet service provider restrictions. Toshiba makes no warranties, representations, or assurances about the content, availability or functionality of third-party content or services. Use of third party Internet services may require the creation of a separate account through a computer with Internet access and/or payment of one-time and/or recurring charges and membership. Not all third party services may be available on or compatible with this product. In order to experience the full suggested capabilities of this product, fully-compatible devices may be required.
 - does not support platform-dependent technologies such as Active X.
 - only supports preinstalled plug-ins.
 - may not support media formats other than the following: JPEG/PNG/GIF.
 - uses a single built-in font. Some text may not be displayed as intended.
 - does not support downloading of files or fonts.
 - is a TV browser. It may work differently than PC browsers.
 - does not support parental control or locks, and it is the responsibility of the you to monitor browser usage by minors.
 - In addition, some web pages may exceed the memory allotment of the web browser. The web browser will close when this happens.
- Some pages may not be displayed correctly or may display differently on different devices.
- · Certain services may not be available in your area.

To use the web browser:

- Press → on the remote control, or press MENU / < to highlight Toshiba Places icon and press OK.
- Press ▲▼◀► to select Browser icon and press OK, and Home page URL will open.
- B Enter the desired URL address by using the ▲▼◀▶ buttons of remote control.

Press BLUE button on the remote control.

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

Using Skype

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

Before using Skype - Preparation

- Connect the FREETALK HD Camera: TALK-7291 to the TV's USB terminal. Do not use a USB hub. For a Skype-ready Toshiba TV compatible camera, please visit the following website: <u>www.freetalk.me/toshiba/TALK-7291</u>
- Arrange the HD camera on top of the TV, ensuring it's in the center.
- · Connect to the network.

NOTE:

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



No emergency calls with Skype

Skype cannot be used for emergency calls.

Getting started



ก



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

"Welcome to Skype" screen appears.

Welcome to Skype				
	Skype Nam	e Press [OK]		
	Passwore	d Press [OK]		
Sign in when Skype starts				
Start Skype when TV starts				
	Sign in	Create Account		



Select Sign in or Create Account.

To create a new account:

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

1

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



2

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

 If you want to receive Skype news and special offers, check the selection box. Skype will inform users about new products, features and special offers by email.

Select "I agree - create an account" and press OK.

4 You'll now be signed into your new account.

NOTE:

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

To Sign into Skype:

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

En En

Enter your Skype Name and Password.

Select Sign in and press OK .

- If "Sign in when Skype starts" is checked, your account will sign in automatically when you launch Skype from the menu.
- If "Start Skype when TV starts" is checked, your account will sign in automatically when you turn on the TV.

Both these options can be selected together.

Basic Operation

Press \blacktriangle or \forall to select a tab (**Contact List, History, Dialer**, or **Options**). Press $\blacktriangleright/\blacktriangle$ to select a contact from the list. Your contact list will contain the following information: Contact name / Current online status / Profile picture / Mood message

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



🎯 Status: Change your availability status

Add Contact: Add a Skype account or phone number

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

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

- Conline : Online
- Contemporary Co
- 🧧 : Do not disturb
- 🔁 : Blocked
- Offline with voice messaging or call forwarding enabled

Contact List 📘

Press \blacktriangle or \forall to select **Contact List** tab. Press $\blacktriangleright/\blacktriangle \forall$ to select a contact.

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



Initiate Video Call

initiate voice C	an
View Profile	 View contact profile (including Skype name, full name, birth date, gender, location, mobile number and email).
Send Voicemail	 Send Voicemail to contact
Block	- Block / unblock contact
Remove	 Remove contact from list

Video or Voice call

Press **AVA>** to select **Video call** or **Voice call**, your screen will now display your call as shown below.



Voice call



Below is all icon pictures in conversation window.

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

Group calls

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

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

Incoming call

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



You are given three options when an incoming call arrives:

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

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

Status

When pressing the **GREEN** button, the change status window is displayed as below. You can change your status by pressing the \blacktriangle or \blacktriangledown button and then pressing **OK**. Exit by pressing the **BACK** button.

Online	Skype Credi		_	
🕛 Do not d		ame Name xtTextTextTextTextTextTextTextTex		
a Away		ame Name		
Invisible		ortTeortTeortTeortTeortTeortTeortTeortTe		
Sign Ou		ntTextTextTextTextTextTextTextTextTextTex		
		ame Name xtTextTextTextTextTextTextTextTextText		
	(B) (B) (B)	8888888888888		

Add Contact

You can add contacts to your contact list.

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

	Name Institutionfeationfeationfeation Suppo Codit
	Contact List Add Contact Type
0	Skype Contact
	Phone Number
ø	
, A	
	🖨 Status 🤤 Add Contact 🔁 Exit

Two sub-functions are supported.

Press ▲ or ▼ button to select Skype Contact or Phone Number and press OK.

Skype Contact

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

Phone Number

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

Contact Search Results

arch Result: (jack	yding)	
Full Name	Skype Name	Country
Aaaaaa_0101	Aaaaaa_0101	USA
Bbbbbb007	Bbbbbb007	UK
Cccccc0709	Cccccc A01	нк
Ddddddd	Ddddddd Ddd	Taiwan
Eccocc_Eccc	EE_Eeeee	Japan
Pffffffff_Fu	Pffffffff_Pf	Taiwan
Gqqqqq_Gqq	Gqqqqq_Gqq	Taiwan

You can send a contact request to a person displayed in the search results. Press \blacktriangle or \blacksquare button to select a person and press **OK**.

Notification of authorization request

	Name TextTextTextTextTextTextTextTextTextText	
	Contact List	
	Name Name TextTextTextTextTextTextTextTextText	
0	Name Name TextTextTextTextTextTextTextTextText	
	Name Name TextTextTextTextTextTextTextTextTextText	
	TextTextTextTextTextTextTextTextTextText	Notification
*	+888888888888	You have received a contact re
· · · · ·		👄 Status 😽

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

Press ▲ or ▼ button to select and press OK	Press 🛦 or 🖲	button to s	elect and	press OK.
--	--------------	-------------	-----------	-----------

Press ◀ or ► button to select and press OK.



History 🕔

You can see a list of past events in "History". Press \blacktriangle or \triangledown to select the **History** tab. Press $\blacktriangleright/\blacktriangle \lor$ to select an item and press **OK**.

	History	Name Name
8	Name Name Tue Jul 3 04:07:47 2012 Duration 00:10:00	
0	Vame Name Tue Jul 3 03:44:58 2012 Duration 00:00:00	• Video call
	Name Name Mon Jul 2 10:01:11 2012 Duration 00:01:06	View Profile Send Voicemail
1	Name Name Mon.lul 2 06:3649 2012 Duration 00:03:04	Listen to Voicemail Add to Contacts
æ I	Name Name	Delete This Item

Press ◀ or ► to select Video call or Voice call.

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

lcons	Description
に	Incoming call
S	Outgoing call
(°	Missed call
84	Unread voice mail
8	Voice mail

Dialer 😭

You can call mobiles and landlines from this screen.

Press \blacktriangle or \forall to select the **Dialer** tab. Press $\blacktriangleright/\blacktriangle \forall$ to navigate this screen.



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

Options 🔅

Press \blacktriangle or \triangledown to select the **Options** tab and press **OK**.

The Options page will appear.

User Profile	Name Name Name Name Name Name Name Name	ame		(1/2
Change Password				(1/2
General Settings	Gender	-Select One-		
General Settings	Birth Date	(D)	(M)	m
Audio Settings	Country/Region	-Select One-		≡
Privacy Settings	State/Province	Press [OK]		
Blocked Contacts	Gty	Press [OK]		
Blocked Contacts	Home Phone		Press [OK]	
Call Settings	Office Phone		Press [OK]	
About Skype	Mobile Phone		Press [OK]	

You can change the following settings:

• User Profile

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

Change Password

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

General Settings

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

Audio Settings

Adjust the speaker / ringtone volume manually.

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

Privacy Settings

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

Blocked Contacts

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

Call Settings

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

About Skype

Displays information about Skype.

Using Hybrid TV Standard (if available)

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

NOTE: You need to configure a home network before using this feature (see page 13).



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



Press \blacktriangle / \triangleleft to highlight **Preferences** icon and



press OK.

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



Press **◀** or **▶** to change from **Disabled** to **Enabled**.

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

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

NOTE:

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

Using Intel[®] Wireless Display

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



4

Press QUICK to open the Quick Menu.

Press ▲ or ▼ to select Intel® Wireless Display and press OK.

A prompt will appear on the screen. Select Yes.

Launch the Intel® WiDi software on your PC and select "scan for available adaptors".

Intel® WiDi device name and ID list will then be displayed on the PC screen.

Select the TV which you wish to connect to.

"Connecting" will be shown on the TV.

Connecting your PC to your TV the first time

When selecting the Toshiba TV for the first time, a 4digit code will appear on your TV screen. This code needs to be inputted into your computer to authenticate the connection.

If authentication has already taken place

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

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

NOTE:

- When connecting Intel[®] WiDi, PC must have power turned on.
- When the Intel® WiDi software is active, other applications may not be usable.
- Intel[®] WiDi device name of the TV can be changed from the Intel[®] WiDi software.

Exit Intel[®] Wireless Display by pushing the disconnect button on Intel[®] WiDi software or by pressing **EXIT** on the TV remote control.

NOTE: If the PC has been inactive for some time, the Intel[®] WiDi connection will be disconnected automatically.

Intel® Wireless Display Device Name

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

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

- Press ▲ or ▼ to highlight Intel® Wireless Display Setup and press OK.
- B Highlight the Intel® Wireless Display Name and press OK.

The Software Keyboard window will appear.

- Input the Intel[®] Wireless Display device name by using the software keyboard (see page 50). Press the BLUE button.
- 5 Highlight **Done** and press **OK** to save your setting.

PC List

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

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

1

In the Intel[®] Wireless Display Setup screen, highlight the PC List and press OK. PC List will appear.

The registered PC can be deleted one by one by pressing $\ensuremath{\textbf{RED}}$ key in the List.

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

Using the Media Player

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

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

Terminology:

DMP: 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 52).

Media Player Specifications

Device

USB device

Interface version: USB2.0 HS

USB Mass Storage Class devices (MSC)

NOTE:

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

File system: FAT16 and FAT32

Maximum memory size: Unlimited

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

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

Basic operation

Using Media Player with USB

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

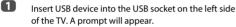
To change the Auto Start setting:



Press MENU / **I** to highlight Media Player icon.

- 2 Press A / I to highlight USB Media Player and press OK.
- B Press **A** or **V** to select **Media Player setup** and press OK
- 4 Press ▲ or ▼ to select USB Auto Start and press ◀ or to select On or Off.

Auto Start



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

- R Press **A** or **V** to select **Photo**, **Movie**, or **Music** and press OK.
- 4 Select the connected USB device and press OK.

Multi View will appear.

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

Manual Start



Insert USB device into the USB socket on the left side of the TV

- \mathbf{r} Press MENU / <> to highlight Media Player icon.
- B Press **A** / **I** to highlight **USB Media Player** and press OK.
- 4 Press A or V to select Photo, Movie or Music and press OK.



Select the connected USB device and press OK.

Multi View will appear.

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

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

To select a file in the Multi View.



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

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

To close the Media Player:

П Press EXIT

1

B

Using the Media Player with a DLNA CERTIFIED™ Server

You need to configure a home network before using this feature (see page 13).

- Press **MENU** / **I** to highlight **Media Player** icon.
- 2 Press **A** / **I** to highlight **Network Media Plaver** and press OK.

Select the server you want to use and press OK.

Multi View will appear.

Multi View (DMS)



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

To select a file in the Multi View:



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



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

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

To close the Media Plaver:



67

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

There are three types of viewing modes.

Multi View (USB Photo)

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



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

1

Press $\blacktriangle \lor \lor \lor$ to move the highlight in one window. If all of the photos will not fit in one screen, when pressing 4 at the top left thumbnail, the screen will move to the previous page. Conversely, when pressing at the bottom right thumbnail, the screen will move to the next page.

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

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





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

Single View

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



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



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



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

NOTE:

- The information may not be correctly displayed depending on the contents, 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.

- ก To start slide show, press **OK** in the Single View mode.
- 2 Press \triangleleft or \triangleright to view the previous/next photo.



Press (i+) to display file status information.

NOTE: Pressing **A** or **V** while in the **Slide Show** mode will stop the slideshow and rotate the photo.

To set Interval Time and Repeat settings:

- ก Press QUICK to open the Quick Menu.
- 2 Press A or V to select either Interval Time or Repeat.



Press < or <p>to adjust the setting and press OK.

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

To set Background Music (USB only):



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



Press \blacktriangle or \blacktriangledown to select **Background Music** and press \blacklozenge or \triangleright to select **On**.

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

NOTE:

- When the music file repeat mode is set to All (see page 73), all the music files in the same folder as the photo will be played repeatedly.
- To stop music file playback, select Off in Background Music.

To zoom in/out photos:

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

RED button (Zoom in)

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

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

GREEN button (Zoom out)

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

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

BACK button: Normal playback

▲ ▼ ◀▶ buttons: Vertical or Horizontal scrolling

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

Selecting the Playback Mode (USB only)

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:

- Press QUICK to open the Quick Menu in Multi View mode.
- Press ▲ or ▼ to select Playback Mode and press OK.
- Press ▲ or ▼ to select 2D Mode, 3D Mode 1 or 3D Mode 2.

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

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 select a photo from Play List:

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

- Press QUICK to open the Quick Menu from Single View mode or Slide Show mode.
- Press ▲ or ▼ to select Play List and press OK.

The Photo List will appear.

 \bullet Press \blacktriangle or \checkmark to select a file name.

To close the Photo Viewer:



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

File Compatibility

See page 94.

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

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

Multi View (USB Movie)



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

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

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

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

NOTE:

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



2

Press 🔳 to stop playback.

NOTE:

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

During playback:

- Press IMI to pause.
 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.
- 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** and **Sound** menu functions from the **Quick Menu**.
- The playback speed (◄◄/ ►►) may not change depending on the stream.

To select subtitle and audio languages (USB only):

- Press SUBTITLE repeatedly to select your preferred subtitle language.
- Press OI/I repeatedly to select your preferred audio language.

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

To set the repeat mode:



Press QUICK to open the Quick Menu.

Press ◀ 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.

B Press BACK.

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

Resume Play (USB only)

You can resume playback from where it was last stopped.

Press while playing the movie to memorize the stopped position.

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

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

To select a movie from Play List:

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



Press QUICK to open the Quick Menu.



Press ▲ or ▼ to select Play List and press OK.

The Movie List will appear.



Press \blacktriangle or ∇ to select a file name.

To close the Movie Viewer:

File Compatibility

Press EXIT.

See page 94.

To register your TV to a DivX® account:

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



2

3

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

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

DivX[®] VOD DivX[®] VOD Registration DivX[®] VOD Deregistration



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

http://vod.divx.com



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

To deregistration your device:

n

 \mathbf{D}

3

In step 2 above, highlight DivX® VOD Deregistration, and then press OK.

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

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

http://vod.divx.com

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

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to 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 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 I to skip to the beginning of the current chapter. When I ≤ is pressed twice in succession, it will skip to the beginning of the previous chapter. If I ≤ is pressed twice in succession at the first chapter, stop playing the current content and skip to the beginning of the previous content.

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

If the content has Authored Chapters, Heter / I are using for Authored Chapters.

NOTE:

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

Using Multi Title and Alternative Timelines Multi Title

DivX Plus HD files may contain up to 100 titles.

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

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

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

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

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

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

Multi View (USB Music)



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

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

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

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

Press ■ to stop playback.

NOTE:

B

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

During playback

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

Auto

Off

To set the repeat mode:

ก

Press OUICK to open the Ouick Menu.

2 Press \blacktriangle 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 RACK

NOTE: When the TV is used as a DMR, this feature cannot be used.

To select a music file from Play List:

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



Press QUICK to open the Quick Menu.



Press ▲ or ▼ to select Play List and press OK.

The Music List will appear.



Press \blacktriangle or ∇ to select a file name.

To display the file status information:

1

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



Press (i+) again to remove the information.

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

To close the Music Player:



Press EXIT. **File Compatibility**

See page 94.

Other features

Teletext

Panel Lock

Panel Lock

Panel Lock disables the buttons on the television. All buttons on the remote control can still be used. 1 Press **MENU** / **I** to highlight **Setup** icon. 2 Press \blacktriangle / \blacklozenge to highlight **Preferences** icon and press OK. 3 Press A or V to select Panel Lock. 4 Press ◀ or ▶ to select **On**. Preferences **Recording Setup HDMI CEC Control Setup Network Setup** TV Guide Selection Network Device Setup

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.

4

The timers

Programme Timers – digital only

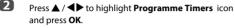
This feature will set the television to go to a specific channel at a certain time. It can be used to view a particular programme, or by setting the mode to daily or weekly, can be used to view a series of proarammes.



3

4

Press **MENU** / **I** to highlight **TV Programmes** icon.



Press $\mathbf{\nabla}$ if necessary to select an open timer position, then press OK. The Edit Timer menu will now appear on screen.

Press \blacktriangle and ∇ to go through the list adding the details of the programme by using the number buttons and \blacktriangleleft and \blacktriangleright to make selections.

Edit Timer 10:50 Tue, 26 A			
Timer Type	 Recording 		
Channel	30 CABC Channel		
Date	Tue, 26 Apr 2011		
Start Time	10:51		
Repeat	Once		
Set Timer	Delete Timer		

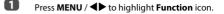
5

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

The ORANGE programme timer indicator on the front of the television will be lit (see page 91 for details).

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.



OK

Press **A** / **I** to highlight **On Timer** icon and press

2

Press **A** or **V** to select **Enable On Timer** and press **4** or to select **On**.

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

⁴

6

Press **V** to select **Enable DTV Clock**, and then press or to select **On** or **Off**.

Press \blacktriangle 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 Ant, EXT 1, EXT 2, HDMI 1, HDMI 2, HDMI 3, HDMI 4 or PC). Channel: Set the channel that will be tuned when the television turns on.

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

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

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

6

Press \blacktriangle or ∇ to highlight **Done** and press **OK**.

³



5 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 icon.
 - Press ▲ / ◀▶ to highlight **Preferences** icon and press **OK**.
- Press ▲ or ▼ to select Energy Saving Settings and press OK.
- Press ▲ or ▼ to select Automatic Power Down.
- B Press ◀ or ► to select On or Off.

NOTE:

2

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

No Signal Power Down

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

- Low signal strength of 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 \blacktriangle or \blacktriangledown to select **No Signal Power Down** and press **OK**.



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

NOTE:

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

English

Digital on-screen information

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

Information

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

Display Example

	8888 ITV1 Londo	'n	ASTRA 19.2°E	· • • •	6:00	lhu, 11 Oct
Side by Side Now MLB Young's two-run triple leads AL over NL 6:00* 8:00 HD 16:9 d ⁴ AD 18 MW 15 min left	•REC 28888 AS	STRA 19.2'E				
Now MLB Young's two-run triple leads AL over NL 6:00-8:00 HD 16:9	D+ CO 🖉 AD Englis	sh				
HD 16:9 - 4 AD 18 W News 15 min left	3D+2D Side by Side					
HD 16:9 - 4 AD 18 W News 15 min left						
	[Now MLB Your	g's two-run triple	leads AL ov		6:00- 8:00
	ĺ	HD 16:9 🔲 🗔	.] _¶ ⊄ AD 18		lews	15 min left
Next World News and Coasts						
Next World News and Sports 8:00-9:00		Next 🕘 World	News and Sports			8:00- 9:00
Also MLB Young's two-run triple leads AL over NL	ĺ	Also MLB Your	g's two-run triple	leads AL ov	er NL	
💮 Change			💮 Chi	inge		

2

3

4

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

The selected information content will appear.

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

Edit Timer The Daily Politics 2 CABC Channel 11:30 - 12:30 Tue, 26 Apr			10:50 Tue, 26	Apr
Timer	Туре	4	Recording	•
	Set Timer			

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

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

To display More Information:

- Press QUICK to open the Quick Menu.
- 2
- Press ▼ to highlight More Information and press OK.

On-screen Information icons

	lcon	Description
Service info		Service type (TV, Radio, Text)
	4	Skip
Audio info	0	Mono
	8	Stereo
	•0	Dual mono
	8	Multichannel
	D	Dolby Digital
	D+	Dolby Digital+
	ШР	When HE-AAC is decoded
	AD	Audio Description
Audio/Subtitle info	Ń	For Hard of Hearing
Recording info	●REC	Recording + Service info
3D info	3D 3D→2D	
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
		Teletext
		Subtitle (Single, Multi)
	\mathbf{P}	Audio track (Mono, Multi)
	0, 4 – 18	Parental rating
	~	Encrypted
Timer info		Recording
	\checkmark	Reminder

Using EPG (Electronic Programme Guide)

You can choose the desired EPG system between the **Broadcast Guide** or **MediaGuide** that needs a internet connection.

Using Broadcast Guide

Make sure you selected Broadcast Guide in the Guide Type menu of Initial Setup (see page 25.) This setup can also be done from the Setup / System Setup / Quick Setup menu or Setup / Preferences / Guide Type menu any time.

1

4

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



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

- Press ◀ 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+.

- 5 To set the timer for that programme, press the **BLUE** button to bring up the **Programme Timers** menu.
- 6 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 \blacktriangle or \triangledown to highlight **Genre Colour** in the **Quick** Menu and press **OK**.

Genre Colo	our Setup				
Movies					
	×		8		
*	췁	8	\succeq	\star	
			Colour Set	up	

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.

Using MediaGuide

MediaGuide is a service of Rovi Corporation. This service is an integrative media guide through the Internet besides television contents and internet contents.

NOTE:

2

- You need to configure a home network before using this feature (see page 13).
- Make sure you selected MediaGuide in the Guide Type menu of Initial Setup (see page 25.) This setup can also be done from the Preference / TV Guide Selection menu any time.

MediaGuide screen

Press GUIDE on the remote control, or select Guide in the TV Programmes menu and press OK.

The **Listings** menu in the Secondary Navigation will be selected.

Default focus position is the current channel.

Remote control key operation



П

This will tune to live TV for the particular show.

If the show is not being aired, you will be directed to the Overview screen with upcoming show times.

Primary Navigation menu

In the Secondary Navigation menu, press 4 to expand the Primary Navigation menu.

Primary Navigation Hotlist



Press \blacktriangle or \bigtriangledown to select **Hotlist** and press **OK**. Shows will be listed. Selecting a movie or show will bring you to the overview page.

Search

Press \blacktriangle or \blacktriangledown to select **Search** and press **OK**.

Terms And Conditions Press ▲ or ▼ to select **Terms And**

Conditions

The License Terms And Conditions will be displayed.

Search screen



 ${\rm I \! D}$ Recent Searches button. Pressing ${\rm OK}$ will take you to the Recent Searches screen.

②Search input area displays what you are typing. Pressing Search For will conduct the search and take you to Search Results.

③Search keyboard.

NOTE:

- Toshiba does not take responsibility for the accuracy of content displayed.
- Service Information may not be displayed or there may be little service information displayed depending on the area or the kind of broadcast.
- The MediaGuide can only be used when your TV is connected to the internet.
- Starting and operation of this service may take time.
- Software update may be needed in order to use this service.
- · This service does not support all languages.
- · MediaGuide is a service of Rovi Corporation.
- During use of the MediaGuide usage information will be notified to the Rovi server to ensure continued efficient operation of the guide.

- Rovi Corporation and/or its subsidiaries and related affiliates are not in any way liable for the accuracy or availability of the program schedule information or other data in the Rovi Guide system and cannot guarantee service availability in your area. In no event shall Rovi Corporation and/or its related affiliates be liable for any damages in connection with the accuracy or availability of the program schedule information or other data in the Rovi Guide system.
- Third party internet services are not provided by Toshiba, may change or be discontinued at any time and may be subject to internet service provider restrictions. Toshiba makes no warranties, representations, or assurances about the content, availability or functionality of third-party content or services. Use of third party internet services may require the creation of a separate account through a computer with internet access and/or payment of one-time and/or recurring charges and membership. Not all third party services may be available on or compatible with this product. In order to experience the full suggested capabilities of this product, fully-compatible devices may be required.

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 icon.
 Press ▲ / ◀► to highlight System Setup icon and press OK.
- B Press ▲ or ▼ to select DTV Settings and press OK.



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

Δ

6



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

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

The PIN number is now set.

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

Parental Setup

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



 \mathbf{D}

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

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

Parental Control
Parental Setup
▲ None →

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

Network Lock

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

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

- Press MENU / ◀► to highlight Setup icon.
- Press ▲ / ◀► to highlight Preferences icon and press OK.
- 3

Press ▲ or ▼to select Network Lock.

Preferences		
3D Setup		
Recording Setup		
HDMI CEC Control Setup		
Network Setup		
TV Guide Selection		
Network Device Setup		
Teletext		Auto
Network Lock	4	Off 🕨

Press ◀ or ► to select On.

To unlock the Network:



Select Off in step 4 above.

Digital settings – Channel Options

Selecting	favourite o	hannels
the Quick Menu	Channel Optio	ns menu, it is

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

- Select a channel you want to add to your favourite list.
- Press QUICK to open the Quick Menu.
- B Press ▼ to select Channel Options and press OK.
- Press ► to select the favourite list (Fav.).



- 5 Press OK to select the ones required. A tick will appear in the box as they are selected.
- 6 Repeat steps 1 through 5 for other channels.
- When all favourites have been selected, press EXIT.

Favourite Channel List

Press LIST to display Channel List.

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

Press < or > to select Favourites. The number of favourites available depends on how many lists have been created.

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

B

Press \blacktriangle or \triangledown to highlight a channel and press **OK** to watch.

Skip channels

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

- Select the channel you want to skip in your channel list.
- In the Quick Menu, press ▼ to select Channel Options and press OK.
- B Press ► repeatedly to highlight the skip (↔) box.
- Press **OK** to select. A tick will appear in the box.
- B Repeat steps 1 through 4 for other channels.
- 6 Press EXIT.

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

Locking channels

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

- Select the channel you want to lock in your channel list.
- In the Quick Menu, press ▼ to select Channel Options and press OK.
- B 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.

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

7

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

Digital settings – other settings

Subtitles

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



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

2

Press \blacksquare to select **Subtitle Display** and press \blacktriangleleft or \blacktriangleright to select **On** or **Off**.

Subtitle and Audio			
Subtitle Display	•	Off	Þ
Subtitle Type		Normal	
Primary Subtitle Language		English	
Secondary Subtitle Language		English	
Audio Type		Normal	
Primary Audio Language		English	
Secondary Audio Language		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 $\operatorname{OI}/\mathbb{I}$ button to select between them.

Common Interface

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

- Insert the CAM and card into the Common Interface Slot, following the instructions provided with the CAM. A box will appear on screen to confirm that the CAM has been inserted.
- Press MENU / **I** to highlight Setup icon.
- B Press ▲ / ◀► to highlight System Setup icon and press OK.
- Press ▲ or ▼ to select DTV Settings and press OK.
- Fress ▲ or ▼ to select Common Interface and press OK.
- 6 Details of the CAM should now be available.

NOTE:

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

Software Upgrade and Licences

Searching for New Software

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



In the **System Setup** menu, press ▲ or ▼ to select **Software Upgrade** and press **OK**.



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

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



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

Network Upgrade

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

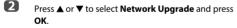
Before downloading software:

Configure your TV to connect to the Internet.

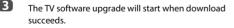
NOTE: While the upgrade is being performed, you will not be able to watch the TV.



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



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



Software Licences

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

(1)

In the System Setup menu, press \blacktriangle or \triangledown to select Software Licences and press OK.

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

System Information and Reset TV

System Information

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



In the **System Setup** menu, press **A** or **V** to select **System Information**.



Press OK to display the System Information.

System Information								
	TOSHIBA							
	2012							
	6.8.05.1 Jan 19 2012 - 53. 5. 73. 5							
	MBOOT Version : xxxxxxxx							
	WEAK	AVERAGE	STRONG					
CH 25				GOOD				
CH 33				GOOD				
CH 67				GOOD				



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 16.)

PC Settings

Horizontal and Vertical Position Connect the PC (as shown in the 'Connecting a computer' section) and ensure that a picture is showing on the television screen. The picture position may now be adjusted to suit personal preference. П Press **MENU** / **I** to highlight **Setup** icon. 2 Press \blacktriangle / \triangleleft to highlight **Preferences** icon and press OK. B Press \blacktriangle or ∇ to select **Display Settings** and press **OK**. 4 Press \blacktriangle or $\mathbf{\nabla}$ to select **PC Setting** and press **OK**. Display Settings Auto Format On 4:3 Stretch Off **Picture Position** PC Settings 6 Press \blacktriangle or \triangledown to select an option and press \blacktriangleleft or \triangleright to adjust the settings.

PC Settings	
Horizontal Position	0i
Vertical Position	0 <u> </u>
Clock Phase	0 ——
Sampling Clock	0 ——
F	Reset

Clock Phase

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



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

2

Press \blacktriangle or \blacksquare 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. 1 In the Display Settings menu, press ▲ or ▼ to select PC Settings and press OK. 2 Press ▲ or ▼ to select Sampling Clock. 3 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 \blacktriangle or $\mathbf{\nabla}$ to select **Reset** and press **OK**.

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

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

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

Input selection and AV connections

See page 9 for a detailed image showing recommended connections.

Most media recorders and decoders send a signal through the SCART lead to switch the television to the correct Input socket.

Alternatively, press the external source selection button 🔊 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 O on the remote control or TV, a list will appear on screen showing all inputs and external equipment.

Press ⊕ on the remote control	Press and hold 𝒫 / ➔ on the TV
Inputs	Inputs
TV	DTV Ant TV
- () 1	DTV Sat TV
	- () 1
HDMI 1	- € 2
HDMI 2	HDMI 1
HDMI 3	HDMI 2
HDMI 4	HDMI 3
PC	HDMI 4
	PC
	A T1/

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.

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.

- ก Press **MENU** / **I** to highlight **Setup** icon.
 - Press **A** / **I** to highlight **Preferences** icon and press OK.

2

Preferences				
HDMI CEC Control Setup				
Network Setup				
TV Guide Selection				
Network Device Setup				
Teletext	Auto			
Network Lock	Off			
Panel Lock	Off			
AV Connection				

4

- Press OK to display the AV Connection menu.
- 5
- Press **A** or **V** to highlight **Input Labeling** and press OK.

AV Connection	
Input Labeling	
Digital Audio Output	

- 6
- Press ▲ or ▼ to select Input Labeling and press OK.

nput Labeling		
Input	Label	
EXT 1		
EXT 2		
HDMI 1		
HDMI 2		
HDMI 3		
HDMI 4		
PC		

7

Press \blacktriangle or ∇ to select the item you want to label, and then press < or <a> to select --, Amplifier, Cable, DVD, Game, PC, Recorder or Satellite.



Repeat step 7 for other video inputs.

R Press A or V to select AV Connection.

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.



Connection and press OK.

In the **Preferences** menu, press **A** or **V** to select **AV**



Press **A** or **V** to select **Digital Audio Output**.

AV Connection Input Labeling Digital Audio Output



Press **OK** to display **Digital Audio Output** menu and press \blacktriangle or \blacksquare 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 Plus → Dolby Digital MPEG → PCM HE-AAC → Dolby Digital

Audio Delay

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

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

Delay Adjustment

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

NOTE:

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

Using HDMI CEC Control

This is a new feature that uses CEC technology and allows you to control Toshiba HDMI CEC Control compatible devices from the television remote control via HDMI connection (page 11).

When the **Enable HDMI CEC Control** item in the **HDMI CEC Control Setup** menu is set to **On**, individual functions also set to **On** will be activated.

Enable HDMI CEC Control

- Press MENU / ◀► to highlight Setup icon.
- Press ▲ / ◀► to highlight Preferences icon and press OK.
- Press ▲ or ▼ to select HDMI CEC Control Setup and pres OK.
- 4

Press \blacksquare to select **Enable HDMI CEC Control** and press \blacktriangleleft or \triangleright to select **On**.

HDMI CEC Control Setup						
Enable HDMI CEC Control	∢ On →					
TV Auto Power	On					
Auto Standby	On					
Amplifier Control	On					
Initial Speaker Setting	TV Speakers					

NOTE: If you set Enable HDMI CEC Control to Off, all other items will be grayed out.

TV Auto Power

The **TV Auto Power** setting allows the television to be automatically switched on if a HDMI CEC Control device is turned on



In the **HDMI CEC Control Setup** menu, press **V** to highlight **TV Auto Power**.

2

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 HDMI CEC Control equipment.



In the HDMI CEC Control Setup menu, press **V** to highlight Auto Standby.

Press ◀ or ► to select On or Off.

Amplifier Control

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



Press ◀or ► to select On or Off.

Initial Speaker Setting

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

In the HDMI CEC Control Setup menu, press V to highlight Initial Speaker Setting.

2

Press **d** or **b** to select **TV Speakers** or **Amplifier**.

HDMI CEC Control input source selection

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

Press € and a list will appear on screen showing available input sources.



ß

Press $\mathbf{\nabla}$ to select the input source that the HDMI CEC Control devices are connected.

Press and a second selection screen will appear showing all connected HDMI CEC Control equipment.



4

Press \blacktriangle or \triangledown to select the desired input source, and then press **OK**.

NOTE:

- · These functions depend on the device connected.
- If you select the HDMI CEC Control input source from the popup window, some HDMI CEC Control devices may automatically turn on.
- If the HDMI cable from connected equipment is changed, Enable in the HDMI CEC Control Setup menu may need to be reset to On.
- If you change the HDMI lead to a connected device or change an HDMI device setting, reset the Enable HDMI CEC Control item on the HDMI CEC Control Setup menu from Off to On.

HDMI CEC Control one touch play

When connected equipment is switched on, HDMI CEC Control will automatically detect the television through the input selection. If the television is in standby, it will be switched on automatically.

These functions can be enabled or disabled from the HDMI CEC Control Setup (see page 85).

NOTE:

- Even if the equipment is showing a menu, the television may automatically show the input source.
- This feature depends on the connected equipment and television state.

HDMI CEC Control system standby

If the television is turned off (standby mode), the television will send a message to turn off (standby mode) all of the HDMI CEC Control devices connected to the television.

These functions can be enabled or disabled from the HDMI CEC Control Setup (see page 85).

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

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 icon.
- Press ▲ / ◀► to highlight Preferences icon and press OK.
- B Press ▲ or ▼ to select Teletext, and then press ◀ or
 ▶ to select Auto or List.

Preferences						
3D Setup						
Recording Setup	Recording Setup					
HDMI CEC Control Setup						
Network Setup	Network Setup					
TV Guide Selection	TV Guide Selection					
Network Device Setup						
Teletext	•	Auto	►			
Network Lock		Off				

Text information

The TEXT button

To view text services press **TEXT**. Press again to superimpose the text over a normal broadcast picture and again to return to normal viewing. Channels cannot be changed until text is cancelled.

The first text page shown will be the initial page.

Any text page can be accessed by entering the 3 digit page number using the numbered buttons, pressing the coloured buttons or pressing $\mathbf{P} \sim$ to advance to the next page and $\mathbf{P} \sim$ to go back to the previous page.

Sub-pages

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

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

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

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

Navigating pages using Auto

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

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

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

Navigating pages using LIST

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

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

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

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

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

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

English

Control buttons

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

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.

E? To reveal concealed text:

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

EX To hold a wanted page:

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

E To enlarge the text display size:

Press () 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.

(1)/(IX) To temporarily erase the text screen:

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

To display news flashes:

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

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

Questions and Answers

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

	Question	Answer			
	Why is there no sound or picture?	Check the television is not in standby mode. Check the mains plug and all mains connections.			
Sound	Why is there a picture but no sound?	Check all lead connections. No sound or unacceptable format sound may be received. Check the volume has not been turned down or that sound mute has not been selected. Check shared audio settings.			
S	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.			
	<i>Why is there incorrect or no sound when in DTV mode?</i>	Press $\operatorname{OI}/\mathbb{I}$ to ensure the hard of hearing option has not been selected.			
Picture	There is a picture, but why is there little or no colour? What else can cause a poor picture?	 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. System Setup Colour System < Auto > Y With <or> choose between Auto, PAL, SECAM, NTSC 4.43 or NTSC 3.58.</or> 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. 			
	Why doesn't the video/DVD being played show on screen? Why are there vertical stripes on the screen when in PC mode?	ATV Manual Tuning Manual Fine Tuning 1 1 A + C 2 Q 0 Make sure the media recorder or DVD player is connected to the television as shown on page 9, and then select the correct input by pressing • The Sampling Clock may need adjustment. Select PC Settings from the Display Settings menu, highlight Sampling Clock and adjust until the			
	Why are there horizontal stripes and/or blurred images on the screen when in PC mode?	lines clear. The Clock Phase may need adjustment. Select PC Settings from the Display Settings menu, highlight Clock Phase and adjust until the picture clears.			

	Question	Answer			
a	Why are the colours wrong when an NTSC source is played?	Connect the source via a SCART lead and play. Select Colour System from the Setup menu.			
Picture		Set the Colour to Auto and exit.			
		2 Go to the Picture menu and adjust the tint.			
	Why don't the controls of the television work?	Check that Panel Lock is not On .			
	Why doesn't the remote control work?	Check that batteries aren't exhausted or inserted incorrectly			
	Why is the digital channel locked?	The channel has been locked in Channel Options (see 'Digital settings – Channel Options' section).			
	Why are some of the digital subscription channels unavailable?	Your subscription needs upgrading. Contact your service provider.			
	What is DVB-T?	Digital Video Broadcast via an aerial/antenna.			
	What is DVB-C?	Digital Video Broadcast via a cable connection.			
	How are DTV radio channels selected?	Select from All Channel List (LIST button).			
	What can be done if the PIN number has been forgotten?	Use the Master PIN code of 1276, then change to a number of your choice. Select Parental PIN Setup from the DTV Settings menu to enter PIN. Ensure that no-one else can use the Master PIN by removing the Owner's Manual.			
	Why when digital subtitles have been selected are they not showing on screen?	Subtitles are not currently being transmitted by the broadcaster.			
General	Why are there problems with analogue text?	Good performance of text depends on a good strong broadcast signal. Thi normally requires a roof or loft aerial. If the text is unreadable or garbled, check the aerial. Go to the <i>main index</i> page of the text service and look for the <i>User Guide</i> . This will explain the basic operation of text in some detail. I further information is needed on how to use text see the text section.			
	Why is a page number visible at the top of the screen but no text?	Text has been selected but Teletext information is currently unavailable on the current source.			
	Why don't the devices connected via HDMI operate properly?	Make sure to use cables with the HDMI logo Hanni (see page 10).			
		Some early HDMI equipment may not work properly with the latest HDMI TV products, due to new standard adoption.			
	Why don't the HDMI CEC Control devices work?	When the connected HDMI CEC Control device does not work correctly after you have changed the settings of the device, turn off your television and unplug the power cord, and then plug and turn on again. Unplug the HDMI cable of the HDMI CEC Control device and lead again.			
	Why is the HDMI CEC logo still showing when the equipment has been disconnected?	If the HDMI CEC Control device is disconnected, the logo will disappear aft approximately one minute.			
	Why don't the networked devices work?	The LAN cables are not connected properly or at all. Connect all cables (see page 13). Make sure your network address is set up correctly (see page 48).			
	Why doesn't the wireless network work?	<i>k?</i> Check that the AP is powered on.			
	Why doesn't the Media Player feature operate?	Make sure that devices are connected correctly. Incorrect behaviour may occur with a USB Hub connection. Check your network setup if using DLNA CERTIFIED™ Server.			

	Question				Answer		
	Why are not 3D images displayed?	recept If the i	Ensure that there is no object blocking the infrared signals in the infrared reception part of television and 3D glasses. If the infrared data communication between the television and 3D glasses is lost for 5 minutes, the power of 3D glasses is turned off.				
	Why doesn't the USB HDD work?	Your c	Your country/area may not support the USB HDD function.				
	Why isn't Skype launched?	Check that the recommended video camera (page 60) is connected to TV. Ensure the network cable connection (page 13). Check the Network setting of TV. Turn off the TV and unplug the power cord. After 1 minute, plug the po cord in and turn on the TV.					
	Why can't the Skype account be signed in?	If you forgot password, visit <u>www.skype.com</u> and confirm the password					
	What do the LEDs on the front of the television indicate?						
eral			LED indication Conditi		Condition		
General			LED-1	LED-2			
G			Green	Orange	Power ON Programme Timer is set		
			Green	Red	Power ON Programme Timer (Recording) or Recording is working		
			Green	OFF	Power ON Programme Timer is NOT set		
			Red	Orange	Power OFF (Standby) Programme Timer is set		
	0/1= @ D =		Red	Red	Power OFF (Standby) Program Timer (Recording) or Recording is working		
	LED 1 LED 2		Red	OFF	Power OFF (Standby) Programme Timer is NOT set		
	LED T LED 2		Orange	Orange	Active Standby Programme Timer is set		
			Orange	OFF	Active Standby Programme Timer is NOT set		
				5	Programme Timer is set Active Standby		

Other problems

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

- 1 Turn off your TV. After 30 seconds, turn it on.
- 2 Turn off the TV and unplug the power cord. After 1 minute, plug the power cord in and turn on the TV.
- 3 Perform the Reset TV function in the System Setup menu.

English

Information

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

Signal information for Mini D-sub 15 pin connector

Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	R	6	Ground	11	NC
2	G	7	Ground	12	DDC Data
3	В	8	Ground	13	H-sync
4	NC*	9	+5V	14	V-sync
5	Ground	10	Ground	15	DDC Clock

* NC = not connected

Acceptable PC signals through the PC terminal

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

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency	VESA Standard (DMT)
VGA	640 × 480	59.940Hz	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	•
	1280 × 800	59.810Hz	49.702kHz	83.500MHz	
	1360 × 768	60.015Hz	47.712kHz	85.500MHz	•
WXGA+	1440 × 900	59.887Hz	55.935kHz	106.500MHz	
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz	•
		75.025Hz	79.976kHz	135.000MHz	•
1080p	1920 × 1080p	60.000Hz	67.500Hz	148.500MHz	

Acceptable video or PC signals through the HDMI terminals

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

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency	VESA Standard
480i	720 × 480i	59.940/60.000Hz	15.734/15.750kHz	27.000/27.027MHz	
576i	720 × 576i	50.000Hz	15.625kHz	27.000MHz	
480p	720 × 480p	59.940/60.000Hz	31.469/31.500kHz	27.000/27.027MHz	
576p	720 × 576p	50.000Hz	31.250kHz	27.000MHz	
1080i	1920 × 1080i	59.940/60.000Hz	33.716/33.750kHz	74.176/74.250MHz	
1080i	1920 × 1080i	50.000Hz	28.125kHz	74.250MHz	
720p	1280 × 720p	59.940/60.000Hz	44.955/45.000kHz	74.176/74.250MHz	
720p	1280 × 720p	50.000Hz	37.500kHz	74.250MHz	
1080p	1920 × 1080p	59.940/60.000Hz	67.433/67.500kHz	148.352/148.500MHz	
1080p	1920 × 1080p	50.000Hz	56.250kHz	148.500MHz	
1080p	1920 × 1080p	24.000Hz	27.000kHz	74.250MHz	
VGA	640 × 480	59.940/60.000Hz	31.469/31.500kHz	25.175/25.200MHz	•
		72.809Hz	37.861kHz	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 Extention	Video codec	Audio codec	USB	DMS	Note
Photo	JPEG	.jpg .jpeg	JPEG	_	yes	yes	USB Data compatibility: JPEG Exif ver 2.2 Maximum viewable resolution: • JPEG 15360 × 8640 (Base-line)
	MPO	.mpo	MPO	-	yes	no	1024 × 768 (Progressive) • BMP 9600 × 6400 Maximum number of files: 1000 / folder DMS Data compatibility: JPEG Exif ver 2.2
	ВМР	.bmp	ВМР	-	yes	no	Maximum viewable resolution: 4096 × 4096 Maximum number of files: 1000/folder NOTE: Some files may not be played depending on file size.
Movie	AVI	.avi	MPEG-2 MPEG-4 part2 H.264 (MPEG-4 AVC) DivX Xvid	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM ADPCM MPEG-2/4 LC-AAC MPEG-4 HE-AAC	yes	no	USB Maximum number of files: 1000 / folder Maximum viewable resolution: • Motion-JPEG:640 × 480 • Other: 1920 × 1080
	MPEG-2 PS	.mpg	MPEG-1 Video	MPEG-1/2 Layer3	yes	no	Maximum video size:
		.mpeg	MPEG-2 Video	MPEG-1/2 Layer2 Dolby Digital (AC-3) L-PCM	yes	yes	Unlimited DMS Maximum video
	MPEG-2 TS	.ts .trp	MPEG-2 Video	MPEG-1/2 Layer2	yes	yes	resolution: 1920 × 1080
		.tp	H.264(MPEG-4 AVC) VC-1(WMV9)	MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM MPEG-4 LC-AAC MPEG-4 HE-AAC	yes	no	Maximum number of file:1000 / folder Maximum video size: Unlimited NOTE: Some files may
	MPEG-2 VOB	.vob	MPEG-1 Video MPEG-2 Video	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM	yes	no	not be played.
	MOV	.mov	H.264 (MPEG-4 AVC) MPEG-4 part2	MPEG-1/2 Layer3 MPEG-2/4 LC-AAC MPEG-4 HE-AAC	yes	no	
	MP4	.mp4 .m4v	H.264 (MPEG-4 AVC) MPEG-4 part12,14	MPEG-1/2 Layer3 MPEG-2/4 LC-AAC MPEG-4 HE-AAC	yes	yes	
	ASF	.asf .wmv	VC-1 (WMV9)	WMA7/8/9 Std WMA9 Pro	yes	no	

Media Player	Media Format	File Extention	Video codec	Audio codec	USB	DMS	Note	
Movie	DivX	.divx .div	DivX 3,4,5,6	MPEG-1/2 Layer2 MPEG-1/2 Layer3	yes	no		
	Xvid	.xvid	Xvid	Dolby Digital (AC-3) PCM ADPCM				
N	MKV	.mkv	MPEG-1 Video MPEG-2 Video MPEG-4 part2 H.264 (MPEG-4 AVC)	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM MPEG-2/4 LC-AAC MPEG-4 HE-AAC	yes	no		
	Flash Video (FLV1)	.flv .swf	Sorenson H.263 (FLV1) H.264 (MPEG-4 AVC)	MPEG-1/2 Layer3 MPEG-2/4 LC-AAC L-PCM ADPCM	yes	no		
	3GPP	.3gp	MPEG-4 part2 H.264 (MPEG-4 AVC)	MPEG-2/4 LC-AAC AMR	yes	no		
	Motion JPEG	.avi .mp4 .mkv	JPEG	L-PCM ADPCM	yes	no		
Music	MP3	.mp3	-	MPEG-1/2 Layer-3	yes	yes	USB	
	MP4	.m4a	-	MPEG-2/4 LC-AAC	yes	yes	Maximum number of files: 1000 / folder	
	WMA	.wma	-	WMA7/8/9/ Std	yes	yes	Maximum viewable	
			-	WMA9 Pro	yes	no	resolution:	
	WAV	.wav	-	LPCM ADPCM MPEG-1/2 Layer-3 WMA7/8/9/ Std WMA9 Pro	yes	no	Motion-JPEG: 640x480 Other: 1920 × 1080 Maximum video size: Unlimited DMS	
	LPCM		-		no	yes	Maximum video resolution: 1920 × 1080 Maximum number of files: 1000 / folder Maximum video size: Unlimited NOTE: Some files may not be played.	

NOTE: Even if contained in above table, it may not be reproduced depending on contents.

3D Support Format (HDMI)

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

3D Support Format (DTV)

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

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

Side by Side (Full)

2D Video



Side by Side (Half)





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Cleaning the screen and cabinet...

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

Disposal...

The following information is only for EU-member states:

Disposal of products

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.

The black bar indicates that the product was placed on the market after August 13, 2005.

By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

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

Disposal of batteries and/or accumulators

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

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.





3D Information

Available 3D glasses : Toshiba FPT-AG02G

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

If the 3D PIN number has been forgotten:

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

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

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

Notes on IR communication

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

Notes on watching the TV

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

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

About the connecting cable

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

Specifications and accessories

Receiving systems

Receiving sy	rstems					
DVB-T Broad	cast systems/chan	nels	Broadcas	t systems/channels		
UK	UHF 21-68		PAL-I	UHF UK21-UK69		
France	VHF 05-10 (VHF (UHF 21-69	01-05)	PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41		
Germany	VHF 05-12 UHF 21-69		SECAM-L	UHF F21-F69 VHF F1-F10, B-Q		
Austria	VHF 05-12 UHF 21-69		SECAM-D/	K UHF R21-R69 VHF R1-R12		
Switzerland	VHF 05-12 UHF 21-69					
Italy	VHF 05-12 (D,E,F UHF 21-69	,G,H,H1,	H2)			
Spain	UHF 21-69					
Nederlands	VHF 05-12 UHF 21-69					
Greece	VHF 05-12 UHF 21-69					
	dcast systems S2 Broadcast sys	tems				
Video Input	PAL, SECAM, NTS	SC 3.58/4	4.43			
External cor	nnections					
EXT 1	Input/Output	21-pin	SCART	RGB, A/V input AV out, TV out		
EXT 2	Input	RCA jao RCA jao RCA jao	ck	Y, P _B /C _B , P _R /C _R Video (Y is shared) Audio L + R (shared)		
HDMI 1/2/3/	4 Input		compliant compliant			
PC	Input	Mini D-	-sub 15-pin	Analogue		
Digital Audio	o Output (S/PDIF)	Optica	I			
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				
Headphone	socket	3.5 mm stereo				
Stereo	Stereo					
Visible Scre (approx.)	Visible Screen Size (approx.)			02 cm 17 cm		
	Screen resolution (H × V pixels)			920 × 1080 920 × 1080		
Display		16:9				
Sound outp (at 10% disto		Main:	1	0 W + 10 W		

Power consumption (approx.)		40TL / 46TL /	40UL 46UL	123 W 146 W	
Standby power consumption (approx.)		0.3 W			
Energy Efficiency Clas	s	40TL / 46TL /		A+ A+	
On-mode power consumption* (approx.)		40TL / 46TL /		50.7 W 64.2 W	
Average annual energ consumption** (appro		40TL / 46TL /		70.3 kWh/y 89.0 kWh/y	
* Tested in accordance settings.	with IE	C 62087	7-BD Ed. 2	.0:2008 in de	fault
** Operating 4 hours a	day and	d 365 da	ays a year.		
Dimensions		/ 40UL / 46UL) 92 cm (W)) 106 cm (W)	

m (D) E 46TL / 46UL 69 cm (H) 106 cm (W) 24 cm (D) (approx.) (Height dimension includes foot stand) Weight (approx.) 40TL / 40UL 14.5 kg 46TL/46UL 18.5 kg **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-90405 (for TL series) CT-90378 (for UL series) 2 batteries (AA, IEC R6 1.5V for TL series) (AAA, IEC R03 1.5V for UL series) · Toshiba 3D glasses : FPT-AG02G (for UL series) 'P' Clip/Screw (for TV mounting) See page 5. · 4 spacers for wall mounting · Toshiba 3D glasses : FPT-AG02G (for TL **Optional accessories** series) USB HDD : HDTC610EK3B1, HDTC610EL3B1, HDTC610EW3B1 Skype camera : TALK-7291 · Colour analyser : Toshiba TPA-1

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