TOSHIBA Leading Innovation >>>



VL86* Digital Series



Contents

INSTALLING YOUR TV

Safety Precautions	4
Installation and important information	5
The remote control	7
Inserting batteries and effective range	7

CONNECTING YOUR TV

Connecting external equipment8
Connecting an HDMI® or DVI device to the HDMI input9
To connect an HDMI device9
To connect a DVI device9
HDMI's ARC (Audio Return Channel) feature9
REGZA-LINK connection10
Connecting a computer11
To connect a PC to the RGB/PC terminal11
To connect a PC to the HDMI terminal11
Connecting a home network12
To connect the TV to a home network - Wired12
To connect the TV to a home network with an internet
connection - Wireless12
Controls and input connections13
Switching on13
Using the menu system13
Using the TV controls and connections13
MENU structure14

SETTING UP YOUR TV

Startup Application	15
Quick Setup	15
Ant/Cable/Satellite (if available)	16
Satellite Settings	17
Auto Tuning	19
ATV Manual Tuning	20
Tuning	20
Skip	21
Sorting positions	21
DTV Manual Tuning	22
Manual Tuning	22
Manual Tuning for DVB-C	
Manual Tuning for DVB-S	22
DTV Settings	
Channels (Antenna/Cable)	23
Channels (Satellite)	24
Standby Channel Update	24
DVB Character Set	24
Dynamic Scan	24
Location setting	25
Analogue switch-off	25

CONTROLS AND FEATURES

General controls	26
Quick Menu	26
Selecting channels	
The Time Display – analogue only	
Stereo and Bilingual transmissions	26
Using 3D functions	27
Viewing 3D images	27
Switching display mode or selecting 3D format	27
Setting the auto start mode	
Setting the 3D PIN code	29
Setting 3D Start Message	29
Setting 3D Lock	30
Setting 3D Timer Lock	30
Setting Enable 3D Timer	30
Displaying 3D Important Info	30
Switching left and right images	30
Adjusting your viewing position	30
Sound controls	31
Volume controls and sound mute	31
Dual	31
Balance	31
Sound Navi	31
Surround Settings	31
Dolby Volume®	
Dynamic Range Control	32
Audio Level Offset	32
Headphone Settings	32
Audio Description	
Widescreen viewing	33
Picture controls	35
Picture Mode	
Picture preferences	
Reset	
ColourMaster	
Base Colour Adjustment	
Colour Temperature	
Auto Brightness Sensor Settings	
LED Backlight Control	
Black/White Level	
Static Gamma	
MPEG NR – Noise Reduction	
DNR – Digital Noise Reduction	
Resolution+	
Active Vision M400	
Motion Detection Range	37
Resetting the advanced picture settings	38
Expert Picture Settings	
Control Visualization	
Automatic Format (Widescreen)	
4:3 Stretch	
Blue Screen	40
Picture Position	
Picture still	
HDMI Information Display	
Using your home network	

Catalian una de a Madura de	42
Setting up the Network	
Wireless Setup	
Advanced Network Setup	
DNS Setup	
Network Connection Test	
Using the software keyboard	
Network Device Setup	
External Control Setup	
Media Renderer Setup	
Device Name Setup	49
Using Toshiba Places	49
Using YouTube™	
Using the Function Menu	50
Using Hybrid TV Standard (if available)	52
Using the Media Player	53
Basic operation	53
Viewing photo files	
(on a DLNA CERTIFIED [™] Server or USB device).	55
Viewing movie files	
(on a DLNA CERTIFIED™ Server or USB device).	56
Playing music files	
(on a DLNA CERTIFIED [™] Server or USB device).	
Using the Photo Frame feature	
To open Photo Frame	
Setting the features	
Other features	
Panel Lock	62
The timers	63
Programme Timers – digital only	63
Programme Timers – digital only On Timer	63 63
Programme Timers – digital only	63 63
Programme Timers – digital only On Timer	63 63 64
Programme Timers – digital only On Timer Sleep Timer	63 63 64 64
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down	63 64 64 64 64 64
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down	63 64 64 64 64 64
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down	63 64 64 64 64 64
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide	63 64 64 64 64 64 65 65
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide Information	63 64 64 64 64 65 65 65
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide Information Guide	63 64 64 64 64 65 65 66
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide Information Guide Genre selection/searching	63 64 64 64 65 65 66 66 67
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide Information Guide Genre selection/searching Digital settings – parental control	63 64 64 64 64 65 65 66 67 67
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide Information Guide Genre selection/searching Digital settings – parental control Parental PIN Setup Parental Setup Network Lock	63 64 64 64 65 65 65 66 67 67 67 67
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide Information Guide Genre selection/searching Digital settings – parental control Parental PIN Setup Parental Setup	63 64 64 64 65 65 65 66 67 67 67 67
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide Information Guide Genre selection/searching Digital settings – parental control Parental PIN Setup Parental Setup Network Lock	63 64 64 64 65 65 66 66 67 67 67 67 67
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide Information Guide Genre selection/searching Digital settings – parental control Parental PIN Setup Parental Setup Network Lock Digital settings – Channel Options	63 64 64 64 65 66 66 67 67 67 67 68
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide Information Guide Genre selection/searching Digital settings – parental control Parental PIN Setup Parental Setup Network Lock Digital settings – Channel Options Selecting favourite channels Favourite Channel Lists	63 64 64 64 64 65 66 66 67 67 67 67 68 68
Programme Timers – digital only On Timer	63 64 64 64 64 65 66 66 67 67 67 67 68 68
Programme Timers – digital only On Timer Sleep Timer Energy Saving Settings Automatic Power Down No Signal Power Down Digital on-screen information and Programme Guide Information Guide Genre selection/searching Digital settings – parental control Parental PIN Setup Parental Setup Network Lock Digital settings – Channel Options Selecting favourite channels Favourite Channel Lists	63 64 64 64 64 65 66 66 67 67 67 67 68 68
Programme Timers – digital only On Timer	63
Programme Timers – digital only On Timer	63 64 64 64 64 65
Programme Timers – digital only On Timer	63 64 64 64 64 65 66 66 67 67 67 67 68 88 68 88 68 89 69 69
Programme Timers – digital only On Timer	63 64 64 64 64 64 65 66 66 67 67 67 67 68 68 68 68 68 69 69
Programme Timers – digital only On Timer	63 64
Programme Timers – digital only On Timer	63 64
Programme Timers – digital only On Timer	63 64 64 64 64 65 66 66 67 67 67 67 67 68 68 68 68 68 69

System Information and Reset TV	71
System Information	71
Reset TV	71
PC Settings	71
Horizontal and Vertical Position	71
Clock Phase	71
Sampling Clock	72
Reset	72
Input selection and AV connections	72
Input selection	72
External input skip	73
Labeling video input sources	73
PC Audio	74
Side Shared Audio	74
HDMI 3 Audio	74
HDMI Settings	74
Digital Audio Output	74
Using Personal TV Mode	75
Using REGZA-LINK	76
Enable REGZA-LINK	76
TV Auto Power	76
Auto Standby	77
Amplifier Control	77
Initial Speaker Setting	77
Position Key Pass Through	77
REGZA-LINK input source selection	
REGZA-LINK Device Control	78
REGZA-LINK one touch play	
REGZA-LINK system standby	
REGZA-LINK system audio control	
Toshiba PC compatible with REGZA-LINK	78

English

TEXT SERVICES

Text services	79
Selecting modes	79
Text information	79
Navigating pages using Auto	79
Navigating pages using LIST	79
Control buttons	80
Navigating pages using LIST	

PROBLEM SOLVING

Questions and Answers	8	3	1
-----------------------	---	---	---

INFORMATION

License Information	84
Information	86
Specifications and accessories	91

3

Safety Precautions

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

Air Circulation

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

Heat Damage

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

Mains Supply

The mains supply required for this equipment is 220-240v AC 50/60Hz. Never connect to a DC supply or any other power source. DO ensure that the television is not standing on the mains lead. Use only the supplied lead. DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. IF IN DOUBT, PLEASE CONSULT A COMPETENT ELECTRICIAN.

Do

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

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

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

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

DO be careful with glass panels or doors on equipment.

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

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

Do not

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

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

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



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

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

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

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

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

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

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

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

Installation and important information

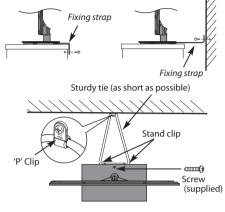
Where to install

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

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

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

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



Stand style is dependent on model

Cleaning the screen and cabinet...

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

Please take note

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

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

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

EXCLUSION CLAUSE

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

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

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

English

When using the 3D glasses

About the 3D glasses

 Do not repair, modify, or disassemble the 3D glasses by yourself.

Doing so may cause you to become indisposed while watching 3D images.

• Do not use the 3D glasses if they are cracked, broken, or not working properly.

Continuing to use them in such a state may cause injury, eye strain, or indisposition.

- 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.

Not for use 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 function.

 If your nose or temple turns red, or you feel any pain or discomfort, stop using the 3D glasses.

Such symptoms may occur when wearing 3D glasses for long periods of time.

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 symptom linked to an epileptic condition, or has a family history of epilepsy, should contact a health care professional before using the 3D function.

- Avoid using 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 improves.
- 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 specified 3D glasses may cause eve strain.
- Do not wear 3D glasses or watch 3D images from steep angles or while lying down.

The 3D effect is lost in these conditions and eye strain may result.

- 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 doubled or if you cannot see the images in 3D, stop viewing.

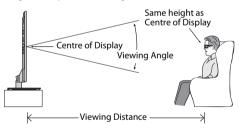
Continuous viewing may cause eye strain.

• 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.

 For optimal 3D effect and to avoid eye fatigue it is important that you properly select your viewing position.

The best viewing position is at the indicated viewing distance with your eyes at the same level as the centre of the display as shown below. The centre of the optimum viewing area varies from set to set. The usable viewing area is generally over the range shown in the table below (actual angle not depicted in drawing).

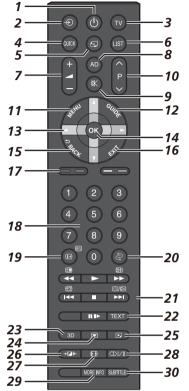


	Viewing Angle	Viewing Distance
42VL	Approx. 26 deg.	Over 1.6m
47VL	Approx. 26 deg.	Over 1.8m

IMPORTANT: If you see a double image, your eyes are either too high or too low in relation to the horizontal centre of the screen. Adjust your position so that it is closer to the centre to avoid eye fatigue and to enjoy optimum 3D effects.

The remote control

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



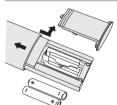
- 1 For On/Standby mode
- 2 To select external input sources
- 3 To select TV Mode
- 4 To access Quick Menu
- 5 To access the "TOSHIBA PLACES" Top Page When network is not connected, an error message will be displayed.
- 6 To access the analogue or digital Channel List
- 7 To alter the TV volume
- 8 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

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

When in IV mode:	wnen	in Text mode:
(⊡)/≡× Analogue time	≣?	To reveal concealed
display		text
	≡₹	To hold a wanted
	_	page
	(≡ ♦	To enlarge text
		_ display size
	@/≣	🖄 To select a page
		while viewing a
		normal picture
When using Programme	During	g Playback:
When using Programme Guide:	During ►	Playback: To PLAY
Guide: I≪ –24 hours		
Guide: I≪ -24 hours ►I +24 hours	During ► ■ I//I►	To PLAY To STOP To PAUSE/STEP
Guide: I≪ –24 hours		To PLAY To STOP
Guide: I≪ -24 hours ►I +24 hours		To PLAY To STOP To PAUSE/STEP To SKIP-BACK To REWIND
Guide:		To PLAY To STOP To PAUSE/STEP To SKIP-BACK

- 22 To call up text services
- 23 To switch between 2D and 3D mode
- 24 Picture still
- 25 To access Media Player Menu
- 26 Selectable Picture preferences
- 27 Widescreen viewing
- 28 OI/ Stereo/bilingual transmissions
- 29 To access More Information Menu
- **30** 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 dead batteries immediately to

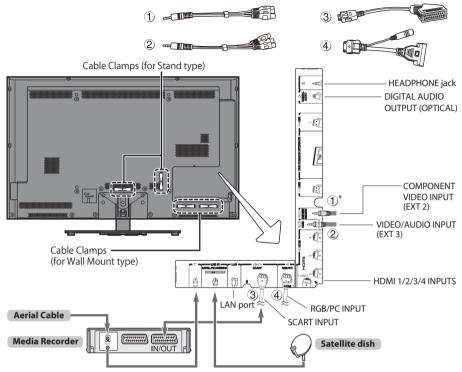
prevent acid from leaking into the battery compartment. Dispose of them in accordance with instructions on page 85 of this manual.

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

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

Connecting external equipment

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



* When using the COMPONENT VIDEO INPUT (EXT 2), also connect Adaptor cable ② (RED and WHITE plugs) as Audio cables to the VIDEO/AUDIO INPUT (EXT 3). EXT 3 Audio is shared.

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. "F-type"

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 $\rm IN/OUT$ socket to the television. Connect the decoder $\rm TV$ socket to the television.

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

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

NOTE: This output is always active.

HDMI[®] (High-Definition Multimedia Interface) is for use with a DVD decoder or electrical equipment with digital audio and video output. For acceptable video or PC signal formats through the HDMI terminals, see page 87.

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

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

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

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

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

Connecting an HDMI[®] or DVI device to the HDMI input

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

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) programme material in digital form from EIA/CEA-861-D-compliant consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output). For acceptable video signal formats, see page 87.

NOTE:

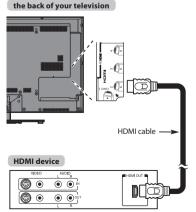
- Some early HDMI equipment may not work properly with your latest HDMI TV, due to the adoption of a new standard. Please unplug your HDMI cable first and then try setting the INSTAPORT™ and Enable Content Type options to "Off". Your early HDMI source should operate properly with your television. See page 74.
- Supported Audio format: Linear PCM, Dolby Digital (AC-3), sampling rate 32/44.1/48kHz.

To connect an HDMI device

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

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

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly with this model.
- HDMI cable transfers both video and audio. Separate analogue audio cables are not required (see illustration).
- See "HDMI 3 Audio" section on page 74.

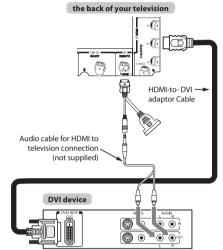


To view the HDMI device video, press the O button to select HDMI 1, HDMI 2, HDMI 3 or HDMI 4 mode.

To connect a DVI device

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

- The recommended HDMI-to-DVI adaptor cable length is 6.6 ft (2m).
- An HDMI-to-DVI adaptor cable transfers video only. Separate analogue audio cables are required.
- · See "HDMI 3 Audio" section on page 74.



NOTE:

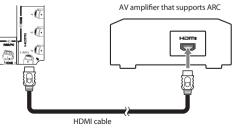
To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

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

HDMI's ARC (Audio Return Channel) feature

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

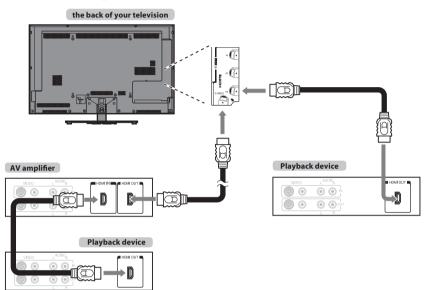
the back of your television





REGZA-LINK connection

You can control the basic functions of connected audio/video devices using the television's remote control if you connect a REGZA-LINK compatible AV amplifier or playback device. For an explanation of setup and operations, see pages 76–78.



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

NOTE:

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

Before controlling the device(s):

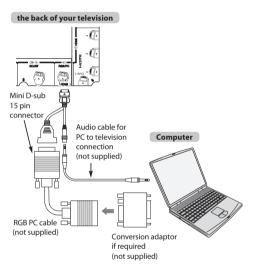
- After completing the above connections, set the REGZA-LINK Setup menu as you desire (see page 76).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK feature uses CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to individual instruction manuals for compatibility information.

Connecting a computer

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

To connect a PC to the RGB/PC terminal

When connecting a PC to the RGB/PC terminal on the television, use an analogue RGB (15-pin) computer cable and a PC audio cable for the PC/HDMI 3 (AUDIO) socket. Select PC from the PC/HDMI 3 Audio options in the AV Connection menu located in the Preferences menu.



To use a PC, set the monitor output resolution on the PC before connecting it to the television. For acceptable PC signal formats, see page 86.

To display the optimum picture, use the PC setting feature (see page 71).

NOTE:

- The PC audio input terminal on the television is shared with the HDMI 3 analogue audio input terminal (see page 74).
- Some PC models cannot be connected to this television.
- An adaptor is not needed for computers with a compatible mini D-sub15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.
- A band may appear at the edges of the screen or parts of the picture may be obscured. This is due to scaling of the picture by the set, it is not a malfunction.
- When PC input mode is selected, some of the television's features will be unavailable e.g. **Colour System** in the **Setup/System Setup** menu.

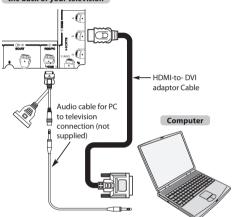
- Some PC models may output unique signals that the television may be unable to detect (see page 86).
- If connecting a certain PC model with a unique PC signal, the PC signal may not be detected correctly.

To connect a PC to the HDMI terminal

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

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

the back of your television



For acceptable PC and video signal formats, see page 87.

NOTE:

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

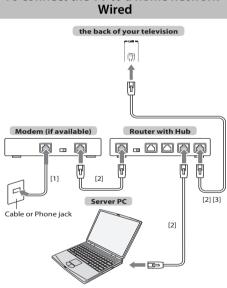
Connecting a home network

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

NOTE:

- If you connect to a shared network outside your home, it is advisable to use a router. Always use DLNA CERTIFIED[™] products in private network environments.
- If you use a hub or switch to connect the TV to your home network, you may not be able to use the automatic setup and will have to manually set up the network address. See page 46.
- If you use a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.
- If you connect the TV and PC directly, use a crossover LAN cable.

To connect the TV to a home network -



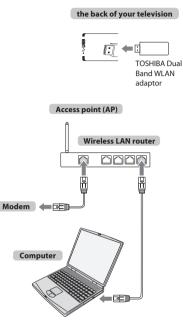
[1] Coaxial or telephone cable (depending on your modem type)

[2] Standard LAN cable

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

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

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

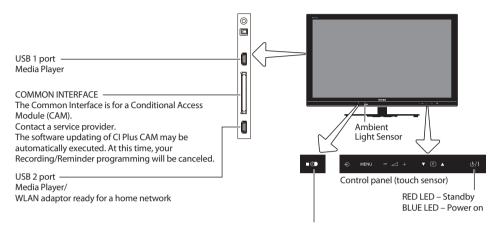


How to use this Dual Band Wireless LAN Adaptor

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

Controls and input connections

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



Switching on

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

To put the television into Standby, press $\mathbf{\Phi}$ on the remote control. To view the television, press $\mathbf{\Phi}$ 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.

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.

ORANGE LED – Programme timer set (digital only) RED LED – Programme timer Active (digital only)

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. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

Using the TV controls and connections

To alter the volume gently touch – \checkmark +.

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

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

Touch MENU to finish.

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

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

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

The USB 2 socket has to be used with the "TOSHIBA Dual Band WLAN Adaptor WLM-10U2" in order to access a wireless network.

This feature is available only when the "TOSHIBA Dual Band WLAN Adaptor" is used.

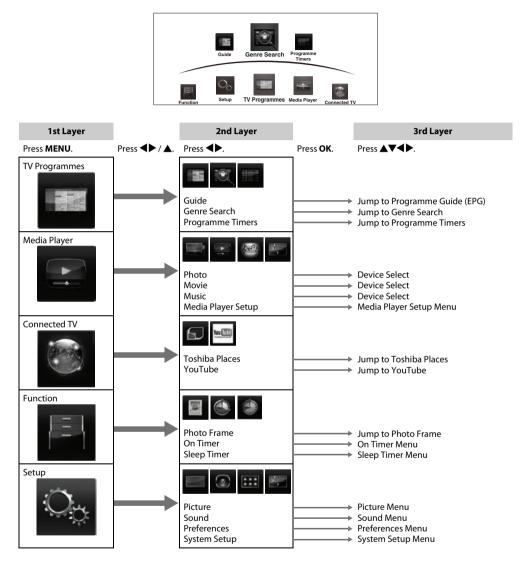
Please always refer to the owner's manual of the equipment to be connected for full details.

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

English

MENU structure

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



Startup Application

Before switching on the television, set your decoder and media recorder, if applicable, to **Standby**. To set up the television, use the buttons on the remote control as detailed on page 7.

Quick Setup

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

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

NOTE:

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

Press OK, and the Location screen will appear.

	/ for displaying in a store showroom, please . [Home] mode is recommended for normal	
4	Home	

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



Press OK, and the AutoView screen will appear. Press or to select Yes or No.

> AutoView AutoView mode automatically adjusts picture settings to suit ambient light conditions. Do you wish to enable AutoView mode?

Press OK. If the Ant/Cable/Satellite screen appears, press \blacktriangle or \forall to select Antenna, Cable or Satellite and press OK to check (\checkmark).

8

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 9 to 12.
- When you select **Satellite**, skip to step 13.
- When you select Antenna (or Cable) and Satellite, the Satellite Settings startup screen will appear automatically after completing the Antenna (or Cable) scan and pressing OK.
- Select Next and press OK. The Auto Tuning start up screen will appear with the option to select between DTV and ATV, DTV or ATV if available. Use ◀ or ► to select the appropriate mode.
- 1 Press \blacktriangle or \checkmark to highlight Start Scan and press OK.

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

You must allow the television to complete the search.

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

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

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

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

M

R

Press **◄** or **▶** to view the **DTV** (digital channel) or **ATV** (analogue channel) lists.

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

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

REMEMBER: Press **TV** at any time to select between **ATV** and **DTV** (DTV Ant TV/Radio/Text, DTV Cable TV/ Radio/Text, DTV Sat TV/Radio/Text if available) modes.

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

Select **Next** and press **OK**. The **Satellite Settings** screen will appear. From this window, you can add the satellites that you wish to tune and configure detailed settings for each one individually. See "Satellite Settings" on page 17.

Satellite	Settings				
Switch Type		None			
LNB Pov	LNB Power		Dn		
No.	Satellite	Dish	LNB		
1	ASTRA 19.2°E	1	1		
2					
3					
4					
Transponder : 1/83 (10743 MHz) Dish Type : Fixed Lower LOF (MHz) : 5000 Upper LOF (MHz) : 10600 Done					

Highlight Done and press OK.

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



Press \blacktriangle or \blacksquare to highlight **Positioning** and press \triangleleft or \blacktriangleright to find the dish position with the strongest signal level.

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

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

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

Highlight Done and press OK.

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

Auto Tuning - Satellite						
	Start Scan					
Satellite		•	ASTRA(19.2°E)	•		
Scan Option			Free to Air			

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

- 16
- Press \blacktriangle or \blacksquare to highlight **Start Scan** and press **OK**.

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

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

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

PLEASE NOTE

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

Ant/Cable/Satellite (if available)

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

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

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

Press \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			
Scan Type			
Start Frequency	Auto		
End Frequency	Auto		
Modulation	Auto		
Symbol Rate	Auto		
Network ID	Auto		

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

DTV Scan Type:

5

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

Satellite Settings Switch Type None			one			
LNB Power		c)n			
No.	Satellite	Dish	LNB			
1	ASTRA 19.2°E	1	1			
2						
3						
4	4					
Transponder : 1/83 (10743 MHz) Dish Type : Fixed Lower LOF (MHz) : 600 Upper LOF (MHz) : 10600 Done						

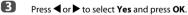
- Press $\mathbf{\nabla}$ to highlight a new line to add an another satellite and press **OK**.
- 6 Press ▼ until the required satellite is displayed and press OK.

To delete a satellite:



5

- In the **Satellite Settings** menu, press \blacktriangle or \blacktriangledown to select the satellite you want to delete.
- Press the RED button. A confirmation window will appear.



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

To edit the satellite settings:

- In the Satellite Settings menu, press ▲ to highlight Switch Type.
- Press ◀or ► to select None, ToneBurst, DiSEqC 2way or DiSEqC 4way as your satellite switch type.
- 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 ▲ or ▼ to highlight the line you want to edit and press **OK**.

1 ASTRA 19.2°E	1	
----------------	---	--

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

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

В

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

Transponder Settings

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

4

Press OK.



6

Edit each parameter as required and press OK.

83	12731	н	22000	S2

To delete a transponder:

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

2 Press the **RED** button.

To edit the Transponder Settings:

- In the Transponder Settings menu, press ▲ or ▼ to highlight the line you want to edit and press OK.
- Press 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.
- **5** Press the **BLUE** button to finish editing and return to Satellite Settings.

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

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

To select the Dish Type:



In the **Satellite Settings** menu, press \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	Þ

B Press ◀ or ► to select **Dish Type**. You can select **Movable** or **Fixed** as the Dish Type.

Englisł

To select the LNB Settings:



In the **Satellite Settings** menu, press \blacktriangle or \triangledown to select the required satellite line and press **OK**.



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

LNB Settings LNB : 1	
Lower LOF	9750
Upper LOF	10600

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.

2

Press ▲ / ◀▶ to highlight System Setup icon. Press OK to display System Setup menu.



Press \blacktriangle or \triangledown 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						



For DTV/ATV Tuning:

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



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

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

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

You must allow the television to complete the search.

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

For Satellite Tuning:

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

Auto Tuning Previous settings will be lost! Press EXIT for no change.					
	Start	Scan			
Satellite	Satellite All				
Search Option Free to Air					

Press \blacktriangle or \forall 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.



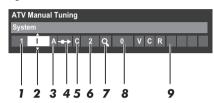
Press \blacktriangle or \blacktriangledown to move through the list to select a channel and press **OK** to view.

ATV Manual Tuning

Tuning

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

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



1 Position

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

2 System

Specific to certain areas.

3 Colour System

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

4 Skip

Set Skip to On () or Off () for the selected channel. See page 21.

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 81.

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	



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.



B

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

ATV Manual Tuning											
										n	Syster
						0	Q	2	A →→ C	î	1

5 Then press ► to select Search.

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

ATV Mar	nual Tuning						
Search							
1 1	A -++ C	2	Q	0			

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



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

1 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.



П

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

ATV Mar	ual Tuning		
Pos.	Channel	Station	
1	C2		۲
2	S10		
3	C7		
4	S40	ABC1	
5	C22	ABC1	
6	C25		
7	C28		
8	C30		



Press to select Skip.

Use ▲ or ▼ to turn Skip on. Press OK.

• on the screen indicates a skipped position.





Press BACK and repeat from Step 2 or press EXIT.

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

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

Sorting positions

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



Select **ATV Manual Tuning** from the **System Setup** menu.

2

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

ATV Man	ual Tuning	
Pos.	Channel	Station
2	S10	*
3	C7	
4	C40	ABC1
5	C22	ABC1
(1	C2	•
6	C25	
7	C28	
8	C30	



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



Repeat as necessary and press EXIT.

П

2

DTV Manual Tuning

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

Manual Tuning

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

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

DTV Manual Tuning							
Signal Strength	WEAK	AVERAGE		STRONG			
Quality	GOOD						
Channel			4	13	►		
I	Start	Scan					

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

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

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

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



Repeat as necessary. Press EXIT to finish.

Manual Tuning for DVB-C

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

Frequency - input a specific frequency to be scanned

 $\label{eq:modulation} \begin{array}{l} \textbf{Modulation} - \textbf{choose from one of five QAM modulation} \\ \textbf{options} \end{array}$

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

Highlight Start Scan and press OK.

Manual Tuning for DVB-S

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

DTV Manual Tuning - Satellite						
Signal Strength	WEAK	AVERAGE	STRONG			
Quality	POOR					
Satellite		ASTR	A 28.2°E			
Transponder		1/83				
Frequency		10714 MHz				
Symbol Rate		22000 KS/s				
Polarisation		Н				
Search Option		Free to Air				
	Start	Scan				

Press \blacktriangle or \blacktriangledown 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**.



Select Channels and press OK.

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

B

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

		TV Sort: A-Z Sor] t
Pos.	Name	-@+	
1	ABC ONE		
2	ABC TWO		
7	ABC THREE		
30	CABC Channel		
40	ABC NEWS 24		
51	ABCi		
822	AA		
823	AC		V

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

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

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

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



Move — Press the **GREEN** button to activate the **Move** feature. Press the \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.

		rt: A-Z Sort	
	Pos.	Name	-@+
$\mathbf{\nabla}$	1	ABC ONE	
		ABC TWO	
	7	ABC THREE	
	30	CABC Channel	
	40	ABC NEWS 24	
	51	ABCi	
	822	AA	
	823	AC	T

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

Sort Your existing c continue?	hannel order will be lost. Do you wish to	
4	Yes	►

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

Sort				
Sorting Type		•	Number	►
	S	ort		

Press \blacktriangleleft or \blacktriangleright to set the sorting type.

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

Number Position No. order (numerical sequence)

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

1

R

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.

Channels Line No. 3/1200		Satellite T	v 🔲
Pos.	Station	Satellite	-@+
1	DDD	19.2°E	
2	AB	19.2°E	
3	E	19.2°E	-@+
801	BBC	22.5°E	>
802	BB	22.5°E	
803	BA	22.5°E	
822	AA	25.6°E	
823	AC	25.6°E	

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

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

Station Letter Jump — Press **4** or **b** to jump to the next station name with a different initial letter.

Satellite Jump — Press < or 🍽 to jump to the next channel on a different Satellite.

Renumber — Same as Antenna/Cable channels. See page 23.

Move — Same as Antenna/Cable channels. See page 23.

Sort — Press the YELLOW button. A confirmation window will appear. Press \triangleleft or \blacktriangleright to select Yes and press OK.

The Sort menu will appear.

Sort			
Group	•	By Satellite	►
Sorting Type		Number	
Preset Order		Yes	
S	ort		

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

Sorting Type — Press \triangleleft or \triangleright to set the sorting type.

- A-Z Sort Station name order (A to Z)
- Number Position No. order (numerical sequence)

Preset Order — Press 4 or b to set Yes or No.

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

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

Standby Channel Update

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

П

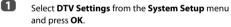
Select DTV Settings from the System Setup menu and press OK.

2

Press **V** to select **Standby Channel Update** and press \triangleleft or \triangleright to select **On**.

DVB Character Set

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





Press V to select DVB Character Set and press V or to select Standard, West or Latin alphabet 9.

Dynamic Scan

If the broadcast information has changed in your DVB-T receiving area, the TV screen will display the message

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

- Select DTV Settings from the System Setup menu and press OK.
- 2 Press ▼ to select **Dynamic Scan** and press ◀ or ► to select **On**

1

Location setting

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

Select Location from the System Setup menu.

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

ก

2

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.

Quick Menu

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

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

Quick Menu		
Picture Mode	•	AutoView 🕨
Picture Size		Super Live
3D Settings		
Personal Mode		
More Information		
Channel Options		
Sleep Timer		00:00
REGZA-LINK Device Control		
Speakers		TV Speakers
Headphone Level	50	<u> </u>
Wireless Information		

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

Quick menu item example

Mode	Quick menu item	Description
When viewing a TV	Picture Mode	See page 35.
programme or pictures from the	Picture Size	See page 33.
external input	3D Settings	See page 28.
Single Window or	Personal Mode	See page 75.
3D Single Window	More Information	See page 65.
_	Channel Options	See page 68.
	Sleep Timer	See page 64.
	REGZA-LINK Device Control	See page 78.
	Speakers	See page 77.
	Headphone Level	See page 32.
	Wireless Information	See page 45.
When using EPG	Genre Colour	See page 66.
	EPG Update/ Cancel EPG Update	See page 66.
Media Player	Sort	See page 56.
(Photo Multi View, List View)	Interval Time	See page 55.
	Repeat	See page 55.
	Shuffle	See page 59.
	Device Information	See page 56.
	Wireless Information	See page 45.

Mode	Quick menu item	Description
Photo Frame	Picture	See page 35.
(Full Screen)	Picture Size	See page 33.
	3D Settings	See page 28.
	Personal Mode	See page 75.

Selecting channels

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

Channels can also be selected using PA and PV.

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

The Time Display – analogue only

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

Press ()/ \mathbb{E} whilst watching a normal television broadcast to see the time display from the broadcaster. It will remain on screen for about 5 seconds.

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

Stereo and Bilingual transmissions

For DTV programmes

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

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

For multi-audio track broadcasts, press MI/I repeatedly to change the audio language (see "Audio languages" on page 69).

For ATV programmes

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

Stereo... Press 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 DI/I to select **Dual 1**, **Dual 2** or **Mono**.

Using 3D functions

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

Viewing 3D programming requires the following:

- TOSHIBA 3D Glasses FPT-P200 (supplied)
- Compatible 3D playback device or 3D source
- 3D capable high quality HDMI cable

Viewing 3D images

Incoming video signals can either be in 2D or 3D format. A 2D signal can only be viewed as 2D, but 3D can be viewed in either 2D or 3D. If the TV can detect the fact that a signal is 3D, it can change to 3D mode automatically - see "Setting the auto start mode" (on page 29). Otherwise the user can change the viewing mode using the 3D button. Finally, the format of the 3D signal can be either Side by Side (SBS) or Top and Bottom (TB). You may have to choose the correct format if the TV can not detect it automatically - see "Switching display mode or selecting 3D format", below.

NOTE:

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

Switching display mode or selecting 3D format

There are three modes for watching TV.

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

3D format select:

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

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

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

* This format cannot be selected manually.

The 3D button's operation:

The behaviour of ${\bf 3D}$ 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.

Input Sig	Press 3D button			
Туре	Additional Info	Format	Source Signal	button
3D Format Signal	With 3D Auto Detect Information	FP	3D 3D	* <u>3D</u>
		SBS	3D 3D	* 3D
		ТВ	50 50	* 3D
	Without 3D Auto Detect	SBS	3D 3D	* 3D
	Information	ТВ	50	3 0 0
2D Form	2D Format Signal			D 3

* Correct 3D image

To select 3D format from the Quick menu in 3D mode:		
1	Press QUICK to display the Quick Menu.	

- Press \blacktriangle or \triangledown to select **3D Settings** and press **OK**.
- Press ▲ or ▼ to select 3D Format Select and press OK.

4

Press for to select Side by Side or Top and Bottom.

	Tri	Quick me	nu		
Input Si	gnal			3D Fomat Select	
Туре	Additional Format Info		Source Signal	SBS	ТВ
3D Format Signal	With 3D Auto Detect FP Information		3D 3D		
		SBS	3D 3D		
		ТВ	SD SD		
	Without 3D Auto Detect	SBS	3D 3D	* 3D	עס עס הפ הפ
	Information	ТВ	SD SD	3 2 2	* 3D
2D Format Signal			3D	D 3	20

* Correct 3D image

To switch to 2D mode:

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

Trigger of Switching Display Mode				Press 3D
Туре	Additional Info	Format Source Signal		button
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	30 30	60
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 \blacktriangle or \triangledown to select **3D Settings** and press **OK**.
- Press ▲ or ▼ to select 2D Format Select and press OK.
- 4 Pre
 - Press ◀ or ▶ to select 2D (SBS) or 2D (TB).

Trigger of Switching Display Mode			Quick me	enu		
Input 9	Signal			2D Foma	t Select	
Туре	Additional Info	Format	Source Signal	SBS	ТВ	Native
3D Format Signal	With 3D AutoDetect Information	FP	3D 3D			
		SBS	3D 3D	* <u>3D</u>		3D 3D
		ТВ	80) 80)		* <u>3D</u>	50 60
	Without 3D Auto Detect	SBS	3D 3D	* 3D	חפ חפ	3D 3D
	Information	ТВ	80 80	[0]	* 3D	SD SD
2D Format Signal		3D	3	201	3D	

* Correct 2D image

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

To switch to Native mode:

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

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

Setting the auto start mode ก Controls what the TV does when it detects a 3D sianal. П Press **MENU** / **I** to highlight **Setup** icon. 2 2 Press \blacktriangle / \checkmark to highlight **Preferences** icon and B press OK. ß Press ▲ or ▼ to select 3D Setup and press OK. 4 Preferences 3D Setup Personal TV Setup REGZA-LINK Setup Network Setup **Network Device Setup** Media Renderer Setup Photo Frame Setup Teletext Auto ก 4 Press A or V to select 3D Auto Start. 5 Press I or to select 3D. 2D. or Off. 2 Option Description 3D Displays as 3D mode automatically when 3D B format signal is received. 2D Displays as 2D mode automatically when 3D 4 format signal is received. Off Displays a screen that allows you to select 3D 5 or 2D when 3D format signal is received.

Setting the 3D PIN code

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

To enter a new PIN code:



B

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

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

Press the number buttons to enter a 4-digit number. Confirm the code.

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

To change or delete your PIN code:

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

Press 🛦 or 🔻 to select **3D PIN Setup**.

Press the number buttons to enter your 4-digit PIN code.

```
Select Change PIN or Delete PIN and press OK.
```

NOTE:

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

Setting 3D Start Message

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

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

Setting 3D Lock

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

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

Benter your 4-digit 3D PIN code.

Press ▲ or ▼ to select 3D Lock.

6 Press ◀ or ► to select On.

Setting 3D Timer Lock

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

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

6

Setting Enable 3D Timer

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

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

6 To cancel the timer, select Off.

Displaying 3D Important Info

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

Switching left and right images

The left and right images 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.

Adjusting your viewing position

If you experience a double image when viewing 3D content, adjust your viewing position.

- In the Preferences menu, press ▲ or ▼ to select 3D Setup and press OK.
- Press ▲ or ▼ to select **3D Test Pattern** and press **OK**.

The 3D Test Pattern is displayed.

- B Put on the 3D glasses (supplied).
- Adjust your viewing position so that there is no double image effect.

For the correct position for viewing 3D content, see "Cautions on watching 3D images" in "When using the 3D glasses" (page 6).

Sound controls

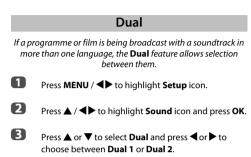
Volume controls and sound mute

Volume

Press \triangleleft or \triangleleft to adjust the volume.

Sound Mute

Press \mathbb{A} once to turn the sound off and again to cancel.



Sound				
Dual	•		Dual 1	►
Balance		0 —	<u> </u>	
Advanced Sound Settings				
Dolby Volume			Low	
Dynamic Range Control			Off	
Audio Level Offset				
Headphone Settings				
Audio Description				



In the **Sound** menu, press **A** or **V** to select **Balance** and press **◄** or **▶** to emphasize left or right speaker balance.

Sound Navi

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

П

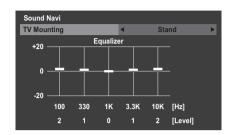
In the **Sound** menu, press **A** or **V** to select **Advanced** Sound Settings and press OK.



Press ▲ or ▼ to select **Sound Navi** and press **OK**.

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

- 3 Press **d**or **b** to select either **Stand** or **Wall** depending on how your TV is installed and press the **RED** button.
- 4 Press \blacktriangleleft or \blacktriangleright to select the frequency range you want to adjust from the equalizer window and press **A** or to adjust the level.





Repeat step 4 for other frequencies.

Surround Settings

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

- n In the **Sound** menu, press **A** or **V** to select **Advanced** Sound Settings and press OK.
- 2 Press \blacktriangle or \triangledown to select **Surround** and press \blacktriangleleft or \triangleright to select Off, Spatial or Cinema.

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

Press **V** to highlight **Voice Enhancement** and press

3

- ✓ or ▶ to select On.
- 4 Press **V** to highlight **Dynamic Bass Boost** and press It o select the desired bass expansion level (Off, Low or High).

Dolby Volume®

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

ก In the **Sound** menu, press **A** or **V** to select **Dolby** Volume

Press ◀ or ▶ to select Low, High or Off.

2 NOTE:

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

Dynamic Range Control

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



In the **Sound** menu, press **A** or **V** to select **Dynamic** Range Control.



Press ◀ or ▶ to select On or Off.

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

Audio Level Offset

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

- 1 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.
- B In the **Sound** menu, press **A** or **V** to select **Audio** Level Offset and press OK.
- 4 Press \blacktriangle or ∇ to select an option, and then press \triangleleft or to adjust the volume level.

Audio Level Offset	
DTV 2ch	-5
ATV	01
External Input	0

NOTE:

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

Headphone Settings

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

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



In the **Sound** menu, press **A** or **V** to select Headphone Settings and press OK.

- 2 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 \triangleright to adjust the headphone sound.

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

Audio Description

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



R

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



Press **A** or **V** to select **Audio Description** and press I or b to select On.

Audio Description			
Audio Description	•	On	►
Mixing Level	50		

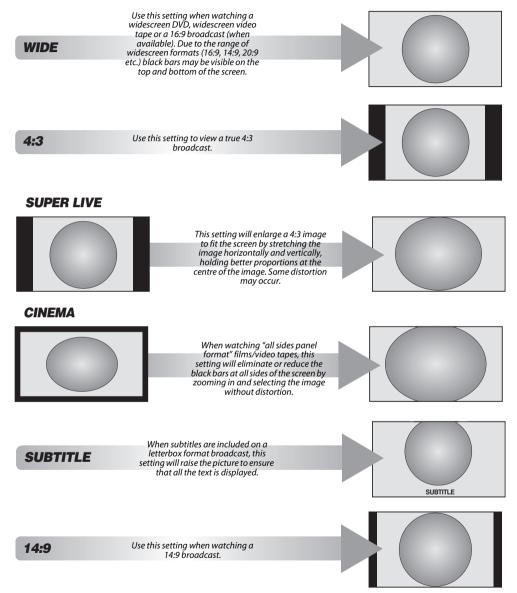
The AD button on the Remote can also be used to toggle the Audio Description feature between On and Off.

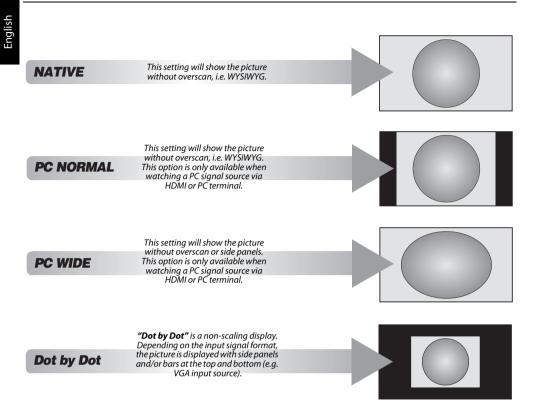


To adjust the level of the audio description sound to the main sound, highlight Mixing Level and press or►.

Widescreen viewing

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

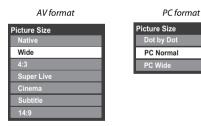




Press the 🛃 button on the Remote to display the list of available widescreen formats.

Press the button repeatedly to highlight the required format.

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



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

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

Picture Mode

This television offers the choice of personalising the picture style.

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

NOTE:

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

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

2 Press **A** / **I** to highlight **Picture** icon and press **OK** to display Picture menu.

R

Press A or V to select Picture Mode.

Picture		
Picture Mode	•	Dynamic 🕨
Reset		
Backlight	100	+
Contrast	100	+
Brightness	0	
Colour	0	
Tint	0	
Sharpness	0	V

4

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 settinas 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 \blacktriangle or $\mathbf{\nabla}$ to select either Backlight, Contrast, Brightness, Colour, Tint or Sharpness and press OK.

2 Press ◀ or ▶ to adjust the settings.

Reset

- This feature resets all picture settings to the factory settings except Picture Mode.
- 1 In the **Picture** menu, press **A** or **V** to select **Reset** and press OK.
 - A confirmation message will appear. Press \blacktriangleleft or \blacktriangleright to select Yes and press OK.

ColourMaster

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

1 In the **Picture** menu, press **A** or **V** to select Advanced Picture Settings and press OK.



B

2

Press \blacktriangle or ∇ to select **ColourMaster**.

Advanced Picture Settings				
ColourMaster	•	Off	►	
Base Colour Adjustment				
Colour Temperature	10 ———			
Auto Brightness Sensor Settings				
LED Backlight Control		Middle		
Black/White Level	10			
Static Gamma	0			
Noise Reduction				

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

Base Colour Adjustment

The Base Colour Adjustment feature allows the adjustment of

	dual colours to su when u	it personal		his can be useful	auto	when the Auto Brightness sensor is activated, it will matically optimise the backlighting levels to suit ambient light conditions.		
1	▼ to select Base Colour Adjustment and press OK .				1	In the Advanced Picture Settings menu, press ▲ or ▼ to select Auto Brightness Sensor Settings and press OK.		
2	Press \blacktriangle or \bigtriangledown to select an option and press \blacktriangleright to move to the adjustment window.			oress 🕨 to move	2	Press ◀ or ► to select On and press OK .		
	Base Colour Ac	ljustment				Auto Brightness Sensor Settings		
		Hue	Saturation 0	Brightness		Auto Brightness Sensor On 		
	Red Green	0	0	0 >		Backlight Adjustment Pro		
		0	0	0				
	Yellow	0	0	0	3	Press 🛦 or 🔻 to select Backlight Adjustment Pro		
	Magenta	0	0	0		and press OK .		
	Cyan	0	0	0				
	Reset				4	The Backlight Adjustment Pro window will appear.		
_						Press OK again to display the adjustment window.		
3	Press ◀ or ▶ to and press ▲ o			n or Brightness gs as required.	5	Press \blacktriangleleft or \blacktriangleright to select a point and press \blacktriangle or \blacktriangledown to adjust the level.		
		Hue	Saturation	Brightness		Desklink Adiustus of Dus		
	Red	0	0	-1 -1		Backlight Adjustment Pro Backlight Control Level 48		
4	Press BACK to	return to	the previous	menu.		Control:		
	To return to th press OK .		•			Level 0 Ambient Light		
	Colo	ur Tem	perature	2	6	Press OK to fix the adjustment.		
_	ur Temperature the picture by					To cancel the adjustment when selecting a point, select Cancel and press OK .		
1	In the Advanc ▼ to select Co		-	enu, press ▲ or I press OK .		To return the adjustments of all points to the factory defaults, select Reset and press OK .		
2	Press ◀ or ▶ t	o adjust tł	ne level.					
	The adjustmer	it range is	0 (warm) to ²	10 (cool).		LED Backlight Control		
NOTE: If Picture Mode is set to AutoView , the adjustment range is -5 to +5.			ne adjustment	You d	an adjust the backlighting of the black areas of the image and enhance the contrast.			
					1	In the Advanced Picture Settings menu, press 🛦 or		

Auto Brightness Sensor Settings

When the Auto Briahtness Sensor is activated, it will

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

▼ to select LED Backlight Control.

Auto View, Auto is grayed out.

NOTE: When Picture Mode is set to any mode other than

36

2

Black/White Level

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

1

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

 \mathbf{D} Press **◄** or **▶** to adjust the level. The effect depends on the broadcast and is most noticeable on dark colours.

Static Gamma

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



In the Advanced Picture Settings menu, press 🛦 or ▼ to select Static Gamma.



Press ◀or ▶ to adjust the level.

MPEG NR – Noise Reduction

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



1

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	

B Press \blacktriangleleft or \blacktriangleright to select Low, Middle, High or Off to suit your preference.

DNR – Digital Noise Reduction

DNR allows you to "often" the screen representation of a weak signal to reduce the noise effect.

Select DNR from the Noise Reduction menu.

2 Press **d**or **b** 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 settinas.

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

Resolution+	l		
Resolution+	•	Auto	•
Level		3	_

B Press \blacktriangle or ∇ to highlight Level and press \triangleleft or \triangleright to adjust the level.

NOTE

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

Active Vision M400

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



In the Advanced Picture Settings menu, press A or to select Active Vision M400.

2 Press \triangleleft or \triangleright to select **Smooth**. Standard or Off.

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

Motion Detection Range

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



In the Advanced Picture Settings menu, press A or ▼ to select Motion Detection Range.



Press \blacktriangleleft or \blacktriangleright to select Wide or Standard.

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

Standard — Stabilized double-scan effect

NOTE: When Active Vision M400 is set to Off, this feature will be grayed out.

Resetting the advanced picture settings

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



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

2 Press OK.



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

Test Pattern

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

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

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



Press ▲ or ▼ to select Test Pattern.



Press ◀ or ▶ to select **On**.

4 Press EXIT to close.

RGB Filter

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



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



Press \blacktriangle or \blacksquare to select **Red**, **Green** or **Blue** to adjust.



Press ◀or ▶ to select **On**.

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

6

Press **EXIT**.

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

Colour Decoding

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

NOTE: The modes excluding Auto (BT601 and BT709) are to convert an irregular signal output from the DVD etc. with incorrect colour to the optimum state. If BT601 or BT709 is selected with a normal signal received, the colour may not be correctly displayed. This feature should normally be set to Auto.



- In the **Expert Picture Settings** menu, press ▲ or ▼ to select **Colour Decoding**.
- 2
- Press ≤ or ► to select Auto, BT601 or BT709.

White Balance-Window Display

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



- In the **Expert Picture Settings** menu, press **A** or **V** to select **White Balance** and press **OK**.
- Press ▲ or ▼ to select Window Display and press ◀ or ► to select On.
- B 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.
- B Press ◀ or ▶ to adjust.

White Balance-10P White Balance

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

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

Colour Calibration

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

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

Apply Calibration

1

2

1

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

Press \blacktriangle or \triangledown to select **Apply Calibration** and press \blacktriangleleft or \triangleright to select **Enabled**.

Manual Colour Calibration

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

Manual Colour Calibration Please input the value measured with the coulour analyser.	
x y Red 0.642 0.335 Green 0.277 0.603	
Blue 0.143 0.067 Start Reset	



Place the probe of the colour analyzer over the square on screen to measure.



Input the value measured with the colour analyzer using the number buttons (0-9).

	х	У
Red	0.642	0.335
Green	0.277	0.603
Blue	0.143	0.067



Press $\blacktriangle \forall \blacklozenge \diamond$ and input the values to fill all RGBxy matrix table.

5

Highlight Start and press OK.

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

To return to factory setting



1

Highlight Reset and press OK.

Auto Colour Calibration

In the Colour Calibration menu, press \blacktriangle or \blacktriangledown to select Auto Colour Calibration and press OK.

- Connect the USB colour analyzer to the USB 1 or USB 2 port.
- Place the probe of the USB colour analyzer over the square on screen and press OK.

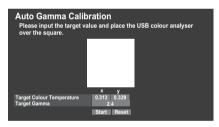
Auto Colour Calibration will start.

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

Gamma Calibration

B

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





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



Resetting to the factory defaults



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

A confirmation screen appears.

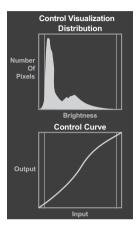
2 Select Yes and press OK.

English

Control Visualization

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

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





Press BACK to return to the previous menu.

Automatic Format (Widescreen)

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

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

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

4:3 Stretch		
W	hen 4:3 Stretch is activated, the size switching system changes 4:3 programmes into full screen picture.	
1	In the Preferences menu, press ▲ or ▼ to select Display Settings and press OK .	
2	Press \blacktriangle or \triangledown to select 4:3 Stretch and press \blacktriangleleft or \triangleright to select On or Off .	
	Blue Screen	
	Blue Screen is selected, the screen will turn blue and the d will be muted on analogue channels and external input modes when no signal is received.	
NOTE	: Some external input sounds may not be muted.	
1	In the Preferences menu, press \blacktriangle or \blacktriangledown to select Blue Screen .	
2	Press ◀ or ▶ to select On or Off .	
	Picture Position	
The pi	cture position may be adjusted to suit personal preference and can be particularly useful for external inputs.	
1	In the Preferences menu, press ▲ or ▼ to select Display Settings and press OK .	
2	In the Display Settings menu, press A or V to select Picture Position .	
	Display Settings	
	Auto Format On 4:3 Stretch Off	
	Picture Position PC Settings	
3	Press OK to view the options available for the picture format that has been selected.	
4	Press \blacktriangle or \blacktriangledown to select an option and press \blacktriangleleft or \blacktriangleright to adjust the settings.	
	The options differ depending on the currently selected widescreen format and the input signal.	
	Picture Position	
	Horizontal Position 0 I Vertical Position 0 I	
	Reset	
	To return to the original factory settings, select Reset	

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

English

Picture still

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



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

HDMI Information Display

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

In the Preferences menu, press ▲ or ▼ to select HDMI Information Display.

2

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

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

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

Using your home network

This TV is a DLNA CERTIFIED[™] Player and Renderer. This TV can play digital content stored on a DLNA CERTIFIED[™] product with server function. If you want to use this TV as a DLNA CERTIFIED[™] Player or Renderer, you will have to configure the network on your TV (see page 12).

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

Change the network settings if necessary (see "Setting up the Network" on page 43).

When using a wireless home network:

Wireless Interoperability

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

- The IEEE 802.11 Standard on Wireless LANs (Revision a/b/g/ n), as defined and approved by the Institute of Electrical and Electronics Engineers.
- The TOSHIBA Dual Band WLAN Adaptor is intended for use with the VL86 series LCD TV's and should not be used with any other devices.

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

CAUTION

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

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

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

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

Wireless LAN and your Health

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

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

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

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

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

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

How to use this Dual Band Wireless LAN Adaptor

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

Setting up the Network

You can select the Network Type.

ก

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

2

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

ß

Press **A** or **V** to select **Network Setup** and press **OK**.

Preferences	
3D Setup	
Personal TV Setup	
REGZA-LINK Setup	
Network Setup	
Network Device Setup	
Photo Frame Setup	
Teletext	Auto
Network Lock	

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

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

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

If you selected Wired, see "Advanced Network Setup" on page 45.

Wireless Setup

NOTE:

5

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

There are 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 Kev.

Manual Setup (manual input of all settings)

Easy Setup using PBC (Push Button Configuration)

- 1 In the **Preferences** menu, press **A** or **V** to select Network Setup and press OK.
- 2 Press **A** or **V** to select **Wireless Setup** and press **OK**.
- B Press ▲ or ▼ to select Easy Setup and press OK.

Wireless Setup		
Easy Setup		
Assisted Setup		
Manual Setup		
Enhanced 11n	Off	

- 4 Press ◀ or ► to select PBC.
- 5 Press **V** 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.

To cancel searching for the AP:

Press **BACK** while searching for the AP. A message will appear and press \triangleleft or \triangleright to select **Yes** and press **OK**.

Easy Setup using PIN (Personal Identification Number)

- ก In the **Preferences** menu, press **A** or **V** to select Network Setup and press OK.
- 2 Press ▲ or ▼ to select Wireless Setup and press OK.
- B Press ▲ or ▼ to select Easy Setup and press OK.
- 4 Press \blacktriangleleft or \triangleright to select **PIN**.
- 5 Press **V** to select **Start Scan** and press **OK**.
- 6 Press \blacktriangle or $\mathbf{\nabla}$ 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.

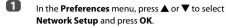
7 When the PIN code window appears, enter the displayed PIN into your AP and press Next to continue the PIN Setup. When a message displays to report that the setup is complete, press OK.

43

To cancel searching for the AP:

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

Assisted Setup



- 2 Press ▲ or ▼ to select Wireless Setup and press OK.
- B Press ▲ or ▼ to select Assisted Setup and press OK.
- Press \blacktriangle or \triangledown to select the desired AP and press **OK**.

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

Highlight Security Key and press OK. The Software Keyboard window will appear.

Input the Security Key by using the Software Keyboard (see page 47). To save your setting, press the **BLUE** button.

NOTE:

6

7

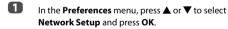
- The Security Key must adhere to these conditions:
 - TKIP/AES: 8-63 ASCII or 64 Hex characters
 - WEP: 5 or 13 ASCII or 10 or 26 Hex characters
- · There is only one key ID to set for WEP encryption.

Highlight Done and press OK.

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

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

Manual Setup



- 2 Press ▲ or ▼ to select Wireless Setup and press OK.
- B Press ▲ or ▼ to select Manual Setup and press OK.
- Press ▲ or ▼ to select Network Name and press OK. The Software Keyboard window will appear.
- Input the Network Name by using the Software Keyboard (see page 47). 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 \checkmark to select **Encryption** and press \blacktriangleleft or \triangleright to select **None**. WEP. TKIP or AES.

NOTE:

7

- Certain encryption types are only compatible with specific authentication types.
 - When Authentication is Open System, only WEP or None is compatible.
 - When Authentication is Shared Key, only WEP is compatible.
 - When Authentication is WPA-PSK or WPA2-PSK, only TKIP or AES is compatible.
- When incompatible Authentication/Encryption pairings are detected, a warning message will be displayed, and no connection attempt will be made until the incompatibility is resolved.
- There is only one key ID to set for WEP encryption.
- 8 Press
 - Press \blacktriangle or \blacksquare to select **Security Key** and press **OK**.
- Input the Security Key by using the Software Keyboard (see page 47). To save your setting, press the **BLUE** button.

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

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

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

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

Enhanced 11n

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

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



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



Press \blacktriangle or \blacktriangledown to select **Enhanced 11n** and press \blacktriangleleft or \blacktriangleright to select **On**.

Wireless Information

The settings configured in Wireless Setup can be confirmed.

1

Press QUICK to open the Quick Menu.



ß

Press \blacktriangle or \blacktriangledown to select Wireless Information and press OK.

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

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

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

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)
Channel	Channel in use (1-165)
Network Name	SSID set
Authentication	Authentication set
Encryption	Encryption set
Security Key	Security Key set
AP MAC Address	The AP's MAC address is displayed when the TV is connected with the AP.
TV or USB MAC Address	The MAC address of the TV or USB (Dual Band WLAN Adaptor) is displayed.
DHCP	Enabled is displayed when using DHCP. Disabled is displayed when not using DHCP.
IP Address	The TV's IP address
Subnet Mask	Value of the Subnet Mask
Default Gateway	Address of the Default GATEWAY
DNS	Address of the DNS

NOTE: Even if an AP for IEEE 802.11n is used when **Encryption** is set to **WEP** or **TKIP**, the Speed value might be low. It is recommended that **Encryption** be changed to **AES** (see "Manual Setup" on page 44).

Notes on wireless LAN environment:

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

Advanced Network Setup

NOTE:

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

IP Address Setup

Auto Setup:

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

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

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	•				Or	1		۲
IP Address		XXX		ххх		XXX	XXX	
Subnet Mask		255		255		255		
Default Gateway								

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

Manual Setup:



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

- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- 3

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



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

IP Address Setup									
Auto Setup	۹	◀ Off				۲			
IP Address		XXX		XXX		XXX		XXX	
Subnet Mask		255		255		255			
Default Gateway									



Press \blacktriangle or \blacksquare to select **IP Address**.

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

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

7

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

IP Address Setup							
Auto Setup	Off						
IP Address	XXX		XXX		XXX	XXX	
Subnet Mask	255		255		255	0	
Default Gateway							

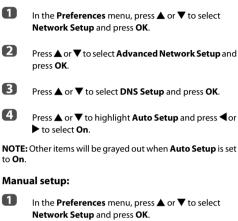
Press ▲ or ▼ to select Default Gateway, and edit in the same way as IP Address.

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

DNS Setup

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

Auto setup:



- Press ▲ or ▼ to select Advanced Network Setup and press OK.
- B 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	◄				Of	f			►
Primary DNS Address		XXX		XXX		XXX		XXX	
Secondary DNS Address		255		255		255			

Press **A** or **V** to select **Primary DNS Address**.

5

6

46

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.



MAC Address

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



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



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

3

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.
- 2

Press \blacktriangle or \triangledown to select **Network Connection Test** and press **OK**.

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

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

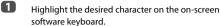
To cancel the Network Connection Test:

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

Using the software keyboard

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

To enter text using the software keyboard:





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.

				Α	a í	I @
AA	A					
Α	В	С	D	E	F	G
Н		J	κ	L	М	Ν
0	Ρ	Q	R	S	Т	U
V	W	Х	Υ	Ζ		

Input operation on the remote control:

Button	Description
ок	Inputs the selected character.
0-9	Inputs the number directly.
▲▼◀►	Moves the character highlight.
	Moves the cursor.
H 4	Moves the cursor to the head of a character string.
₩	Moves the cursor to the end of a character string.
RED	Deletes 1 character to the left of the cursor.
GREEN	Cycles through upper case, lower case, numbers, and symbols, if available.
YELLOW	Chooses an accented version of the current letter, if applicable.
BLUE	Saves changes and closes the Software Keyboard window.
ВАСК	Closes the Software Keyboard window without saving changes.

Network Device Setup

External Control Setup

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

Media Controller Setup

1

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

Preferences	
3D Setup	
Personal TV Setup	
REGZA-LINK Setup	
Network Setup	
Network Device Setup	
Photo Frame Setup	
Teletext	Auto
Network Lock	

Press ▲ or ▼ to select External Control Setup and press OK.

B Press \blacktriangle or \checkmark to select an option and press **OK**.

The Software Keyboard window will appear.

User Name — Input the User Name (to control the TV from the iPhone etc.) by using the on-screen software keyboard (see page 47). The maximum number of characters is 16.

Password — Input the Password (to control the TV from the iPhone etc.) by using the on-screen software keyboard (see page 47). The maximum number of characters is 16.

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

Media Renderer Setup

Terminology:

DMS: DLNA CERTIFIED[™] Server

DMR: DLNA CERTIFIED™ Renderer

DMC: DLNA CERTIFIED[™] Controller

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

Media Renderer

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

Media Controller Setup

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

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

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

B Press ► to highlight Done and press OK.

NOTE:

2

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

Maximum Volume Setup

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

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

NOTE:

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

Device Name Setup

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

- In the Preferences menu, press ▲ or ▼ to select Network Device Setup and press OK.
- Press ▲ or ▼ to highlight Device Name Setup and press OK.
- B Highlight the **Device Name** field and press **OK**. The Software Keyboard window will appear.
- 4 Input the Device Name by using the Software Keyboard (see page 47). Press the **BLUE** button.

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

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

6

Using Toshiba Places

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

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



Press ATT to select the desired place and press OK.

NOTE:

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

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

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

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

This TV allows you to view YouTube content.

NOTE:

- You need to configure a home network before using this feature (see page 12).
- If Network Lock is set to On, it will be necessary to enter your four-digit PIN code in order to access network features (see page 67).

1

Press MENU / A / I to highlight Connected TV / YouTube icons and press OK.

The YouTube top page will appear.

Press AV to select the file you want to view, and press OK.

To close YouTube:



Press EXIT.

NOTE:

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

Using the Function Menu

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

1

Press the **BLUE** button while displaying YouTube.

The Function menu window will appear.





Press \blacktriangleleft or \blacktriangleright to select the desired icon and press **OK**.

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

Switching the pointer

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



From the Function menu, press ◀ or ► to select **Pointer**, and then press **OK**.



n

2

If you select \mathcal{K} , see "To use the Pointer: ON:" on this page. If you select \mathcal{K} , see "To use the Drag Mode:" on the next page.

To use the Pointer: ON:



• 🗟 will appear.

Press $\blacktriangle \forall \blacklozenge \forall \flat$ to the place where \mathcal{R} changes to $\chi^{h_{\gamma}}$, and then press **OK**.

NOTE: When **Pointer: OFF** is selected and **AV** is pressed, the highlight moves to linked areas.

To use the Drag Mode:

- Press \blacktriangle or \triangledown to select **Pointer: ON** and press **OK**.
- 2 Press the **BLUE** button.
- B From the Function menu, press ◀ or ► to select **Pointer**, and then press **OK**.
- Press ▲ or ▼ to select Drag Mode and press OK.
 ^(m) will appear.
- **5** Press **OK**, and then \mathcal{O} changes to \mathcal{O} .
- 6 Press AV I to move the selected item in the desired place.

Switching the frame

From the Function menu, press
 ✓ or
 ✓ to select

 Menu, and then press OK.



- Press **◀** or **▶** to select **Page Tasks**.
- B Highlight Switch Frames and press OK.

Setting the view feature

- From the Function menu, press ◀ or ► to select Menu, and then press OK.
- Press ◀ or ► to select View.
- **B** P

4

Press \blacktriangle or \blacksquare to select the desired item and press **OK**.

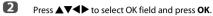
Press \blacktriangle or \blacksquare to select the desired setting and press **OK**.

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

If you select Advanced Settings:

1

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



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

Setting other features



From the Function menu, press \blacktriangleleft or \triangleright to select **Menu**, and then press **OK**.

- Press ◀ or ► to select Settings.
- B Press \blacktriangle or \checkmark to select the desired item and press **OK**.
- Press ▲ or ▼ to select the desired setting and press OK.

	6
ltem	Settings
Security	When jumping from a protected page to an unprotected page, the message is displayed when the check is applied to Notify of secure/non-secure page changes . Apply the check to select SSL version from SSL Version to use (SSL2.0, SSL3.0, TSL1.0) . A content confirmation of the certification and a setting effect/non-effect can be done in Root Certificates and CA Certificates shown below.
Cookies	Accept all: Cookie is received, and it records in this TV. Reject all: Cookie is not received. Prompt before accepting: When Cookie is received, a message window will be displayed.
Delete Cookies	Deletes all recorded Cookies.
Cache	Use cache: When the check is applied to this, cache is used. Delete All Cache Data: Deletes all the cache data preserved in the television.
Browser Information	Displays the information on a browser.

NOTE:

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

To confirm Root Certificates or CA Certificates:

- n Press **A** or **V** to select **Security** in step 3 in **Setting** other features.
- 2

B

Press AVI to select Root Certificates or CA Certificates and press OK.

Press \blacktriangle or $\mathbf{\nabla}$ to select the desired certificate.

- When **OK** is pressed, a detailed information window will appear.
- When the BLUE button is pressed, Disable or Enable bar will appear. It changes whenever BLUE button is pressed.
- 4 Press BACK.

Using Hybrid TV Standard (if available)

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

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

Press **MENU** / **I** / **I** / **I** to highlight Setup / Preferences icon and press OK.

2

n

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

3 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 $\blacktriangle \bigtriangledown \checkmark \checkmark \checkmark \lor$ to select the desired contents.

NOTE

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

Using the Media Player

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

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

Terminology:

DMP: DLNA CERTIFIED[™] Player

DMS: DLNA CERTIFIED[™] Server

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 48).

Media Player Specifications

Device

USB device

Interface version: USB2.0 HS

USB Mass Storage Class devices (MSC)

NOTE:

- Connectivity is not guaranteed for all devices.
- A USB hub can not be used.

File system: FAT16 and FAT32

Maximum memory size: Unlimited

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

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

Basic operation

Using Media Player with USB

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

To change the Auto Start setting:

1

Press **MENU** / **I** / **I** / **I** + to highlight **Media Player** / **Media Player Setup** icons and press **OK**.



Press \blacktriangle or \triangledown to select **USB Auto Start**, and then press \blacktriangleleft or \triangleright to select **On** or **Off**.

Media Player Setup			
USB Auto Start	۹	On	►
DivX [®] VOD			
Media Server Setup			

Auto Start:

1

3

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

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

Manual Start:



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



П

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



Press **A** / **I** to highlight **Photo**, **Movie** or **Music** icon and press **OK**. The contents list will appear.

To select a file in the list of contents:



Press $\mathbf{A} \mathbf{\nabla} (\mathbf{A})$ to select a file or folder.



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

To close the Media Player:



Press EXIT

Using the Media Player with a DLNA CERTIFIED™ Server

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



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

2 Press **A** / **I** to highlight **Photo**, **Movie**, or **Music** icon and press OK. The thumbnail (for Photo) or list of files (for Movie and Music) will appear.

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

B Press A or V to select a DMS if the selection window is displayed.

To select a file in the list of contents:

- ก Press \blacktriangle or ∇ to select a file or folder.
- 2 Press OK to move to the next layer, or press BACK to return to the previous layer.

To close the Media Player:



To display the device information:

- n
- Press OUICK to open the Ouick Menu in list mode or Multi View mode
- 2
 - Press \blacktriangle or $\mathbf{\nabla}$ to select **Device Information**.

Setting DLNA CERTIFIED[™] Server waking up:

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



Press **MENU** / **I** / **I** / **I** to highlight **Media** Player / Media Player Setup icons and press OK.

- 2 Press **A** or **V** to select **Media Server Setup** and press **OK**. A list of currently available DMSs will appear.
- B Press \blacktriangle or $\mathbf{\nabla}$ to select the desired device, and press OK. A check will appear in the box. To remove the check, press OK again.



Press to highlight **Done**, and then press **OK** to save.

NOTE:

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

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

There are three types of viewing modes.

Multi View

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

Photo list example



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

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

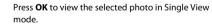
P A **P** buttons can be used to page up/down the photo list when there are more photos than will fit onto one screen. When the **P** A **P** buttons are pressed, the highlight shall be on the photo at the top left of Previous/Next list.



B

1

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



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

Single View

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

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

NOTE: The information may not be correctly displayed depending on the content, DMC or DMS.

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.

- 1 To start slideshow, press **OK** in the Single View mode.
- Press ◀ or ► to view the previous/next photo.
- \bullet Press \blacktriangle or \blacktriangledown to rotate the photo.
- Press (i+) to display file status information.

To set Interval Time and Repeat settings:

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

To set Background Music

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

NOTE:

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

To zoom in/out photos

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

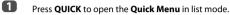
RED button: $x1 \rightarrow x2 \rightarrow x4 \rightarrow x8 \rightarrow x16$ zoom

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

BACK button: Normal playback

▲ ▼ ◀ ▶ buttons: Vertical or Horizontal scrolling

To set the shuffle mode (USB only):







To sort the folders and files



Press QUICK to open the Quick Menu from Multi View mode

Press ▲ or ▼ to select Sort.

B Press I or to select Title/File Name, New or Old to set the sorting rule.

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

NOTE: Sorting may not be supported by some DMSs.

To display the device information



Press QUICK to open the Quick Menu from Multi View mode.

2

Press **A** or **V** to select **Device Information** and press OK.

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

To close the Photo Viewer

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

File Compatibility

See page 88.

n

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

You can select movies from a list of available files.

Movie list example

MOVIE	241		0
📕 /Folder	-	00:00:20 / 00:04:00	¢
movie	_	Sort	File Name
Unprotected			
▷ WWWWWWWWWWWWW.mp4			
WWWWWWWWWWWWW.mp4			
WWWWWWWWWWWWW.mp4			
WWWWWWWWWWWWW.mp4			
WWWWWWWWWWWWW.mp4			
WWWWWWWWWWWWW.mp4			
WWWWWWWWWWWWW.mp4			
WWWWWWWWWWWWWmp4			
OK Play	QUICK Feature	1/9 s P Page	



Press ▲ ▼ to select a file or folder. **P** ∧ **P** ∨ buttons can be used to page up/down the movie list when there are more files than will fit onto one screen.

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

NOTE:

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

NOTE:

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



2

During playback:

• Press II/II► to pause.

You can move to the desired replay position by pressing ◀ or ▶ during PAUSE. PAUSE or operations during PAUSE may not be available depending on the contents, DMC or DMS.

- To resume normal playback, press ► (play).
- To play in fast reverse or fast forward directions, press ◀
 or ▶ during playback. Each time you press the ◀◀ or ▶, the playback speed will change.
 PAUSE or operations during PAUSE may not be available depending on the contents, DMC or DMS.
- To locate a specific file, press repeatedly.
- Press (i+) to display the file status information (content number, movie title, progress time etc.).

NOTE:

- The information may not be correctly displayed depending on the contents, DMC or DMS.
- During playback, you can adjust the Picture, Picture Size and Sound menu functions from the **Quick Menu**.

To select subtitle and audio languages

- Press **SUBTITLE** repeatedly to select your preferred subtitle language.
- Press DI/II repeatedly to select your preferred audio language.

NOTE: This feature may not be 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 the TV is used as a DMR, this feature is not available.

To sort the folders and files

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

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

NOTE: Sorting may not be supported by some DMSs.

To display the device information



Press QUICK to open the Quick Menu in list mode.



Press \blacktriangle or \blacksquare to select **Device Information** and press **OK**.

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

To close the Movie Viewer

Press EXIT.

File Compatibility

See page 88.

To register your TV to a DivX[®] account

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



In the **Media Player Setup** menu, press \blacktriangle or \triangledown to select **DivX**[°] **VOD** and press **OK**.



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

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

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

http://vod.divx.com

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

To deactivate your device

In step 2 above, highlight DivX[®] VOD Deactivation, and then press OK.





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

http://vod.divx.com

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

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

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

To playback DivX Plus HD content:

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

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

Press 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 have authored chapters, the Number button is used to jump directly to Auto Generated Chapter.

If the content has Authored Chapters, Het/ >>> are using for Authored Chapters.

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

Using Multi Title and Alternative Timelines Multi Title

DivX Plus HD files may contain up to 100 titles.

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

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

The title is changed cyclically each time the **RED** button is pressed. Playback will start from start time of selected title each time you press \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 list of available files.

Music list example

MUSIC	П	Title : www.www.www Artist: www.www.www
Folder		00:00:34 / 00:05:19 🛛 💢 💭
		Sort : File Name
music		
Unprotected		
WWWWWWW.mp3		· · · · · · · · · · · · · · · · · · ·
OK Play	QUICK Features P P	1 / 10 Page Full Screen

- Press ▲ ▼ to select a file or folder. P∧ P∨ buttons can be used to page up/down the music list when there are more files than will fit onto one screen.
- When you select a folder, press OK to move to the next layer. Press BACK to move back to the previous layer.
- 3 With the desired file selected, press OK or ► (play) to start playback.

NOTE: OK takes to you full screen playback. Playback in preview start without pressing **OK**. Moving cursor up/down plays music.

Press ■ to stop playback.

NOTE:

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

During playback in full screen:

- Press II/II► to pause.
- To resume normal playback, press ► (play).
- You can move to the desired replay position by pressing

 or ▶ during PAUSE.

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

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

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

To set the repeat mode:

- Press QUICK to open the Quick Menu in list mode.
- Press \blacktriangle or \triangledown 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.	

Press BACK.

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

To set the shuffle mode (USB only):

- Press **QUICK** to open the **Quick Menu** in list mode.
- **2** Press \blacktriangle or \blacktriangledown to select **Shuffle**.
- B Press **◄** or **►** to select **On** or **Off**.

To sort the folders and files

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

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

NOTE: Sorting may not be supported by some DMSs.

To display the device information

Press QUICK to open the Quick Menu in list mode.

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

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

To display the file status information



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 content, DMC or DMS.

To close the Music Player:

Press EXIT.



File Compatibility

See page 88.

Using the Photo Frame feature

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

You can overwrite the photo file with a file from a USB storage device or DLNA CERTIFIED $^{\rm M}$ Server.

To open Photo Frame

Pres
 Pref

Press **MENU** / **I** / **I** / **I** + to highlight Setup / **Preferences** icons and press **OK**.

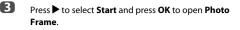


Press ▲ or ▼ to select Photo Frame Setup and press OK.

Preferences	
3D Setup	
Personal TV Setup	
REGZA-LINK Setup	
Network Setup	
Network Device Setup	
Photo Frame Setup	
Teletext	Auto
Network Lock	



Photo Frame Setup			
	SHIBA ng Innovation >>>		
Photo Select Photo Edit Settings		Start	
OK	Enter		





To open from the Quick Menu

1

Press QUICK to open the Quick Menu.

2 Press **A** or **V** to select **Photo Frame** and press **OK** to open Photo Frame.

To close Photo Frame: Press EXIT.

- 1

Setting the features

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

Photo Select

2

n In the Photo Frame Setup menu, press **A** or **V** to select Photo Select and press OK.



If the device selection screen appears, press \blacktriangle or $\mathbf{\nabla}$ to select the appropriate device and press OK.

3 Press $\blacktriangle \nabla \triangleleft \flat$ to select the photo you want to copy from the USB storage device or DLNA CERTIFIED™ server to the TV's flash memory, and then press OK.



Photo Edit



- Press \blacktriangle or \triangledown to select **Photo Edit** and press **OK**.
- 2
- Press A or V to select Rotate or Delete.



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

Settings

П

Press ▲ or ▼ to select **Settings** and press **OK**.

Press ▲ or ▼ to select Clock, Position or Auto Power Off.



B

Set the following items as required.

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

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

4 Press BACK.



Select Start and press OK.



NOTE:

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

Other features

Panel Lock

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

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

Preferences			
Personal TV Setup			
REGZA-LINK Setup			
Network Setup			
Network Device Setup			
Photo Frame Setup			
Teletext		Auto	
Network Lock			
Panel Lock	•	Off	►

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

The timers

ก

2

5

Programme Timers – digital only

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

Press **MENU** / **** / **** / **** / **** to highlight **TV Programmes** / **Programme Timers** icons and press **OK**.

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

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

Press ▲ and ▼ to go through the list adding the details of the programme by using the number buttons and ◄ and ► to make selections.

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

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

The ORANGE/RED programme timer indicator on the front of the television will be lit (see page 83 for details).

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

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

On Timer

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



ก

Press MENU / ◀▶ / ▲ / ◀▶ to highlight Function / On Timer icons and press OK.

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

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

3

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

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

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

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

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

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

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

5

Press **A** or **V** to highlight **Done** and press **OK**.

To cancel the On Timer



In the On Timer menu, select Enable On Timer.

Press ◀ or ► to select Off.

Sleep Timer

- The television can be set to turn itself **Off** after a certain length of time.
- 1
- Press **MENU** / **♦** / **▲** / **♦** to highlight Function / **Sleep Timer** icons and press **OK**.

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



Press EXIT to finish.

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

Energy Saving Settings

Automatic Power Down

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



Press **MENU** / **** / **** / **** / **** to highlight **Setup** / **Preferences** icons and press **OK**.

- Press ▲ or ▼ to select Energy Saving Settings and press OK.
- 3

2

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

NOTE:

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

No Signal Power Down

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

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



In the **Energy Saving Settings** menu, press \blacktriangle or \triangledown to select **No Signal Power Down** and press **OK**.



Press \blacktriangle or \bigtriangledown 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.

Digital on-screen information and Programme Guide

3

5

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

Info	rmation			
Press (+), the information screen will appear giving details of the channel and programme currently being viewed. Display Example				
B8888 ITV1 London ■D+ ① ∬ AD English 3D+2D Side by Side	ASTRA 19.2°E 🖚 🎧 л 6:00	Thu, 11 Oct		
		6:00- 8:00 15 min left		
		8:00- 9:00		
	Press (+), the info details of the chann being viewed. Displ 8886 TV1 London 10+00 // AD English 30+20 Side by Side	details of the channel and programme current being viewed. Display Example 8888 TV1 London ASTRA 19.2'E •• • • • • • • • • • • • • • • • • •		

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

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

Set Timer Tue, 26 Apr 11:00 30 CABC Channel Seven Wonder4	10:50 Tue, 26 Apr
Timer Type	
Start Time	10:49
End Time	
Repeat	Once
Subtitle	
Set Timer	Delete Timer
💮 Edit 🛛 🖪 A	CK Return

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

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

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

To display More Information

n Press QUICK to open the Quick Menu.



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

On-screen Information icons

	lcon	Description
Service info		Service type (TV, Radio, Text)
	4	Skip
Audio info	0	Mono
	8	Stereo
	•0	Dual mono
	8	Multichannel
	D	Dolby Digital
	D+	Dolby Digital+
	HE-AAC	Audio Coding
	AD	Audio Description
Audio/Subtitle info	Ń	For Hard of Hearing
3D info	3D 3D→2D	Frame Packing Side by Side
Personal Mode info	*	Personal Mode (Personal Name)
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
		Teletext
		Subtitle (Single, Multi)
	四日	Multi-audio track
	0, 4 – 18	Parental rating
	\sim	Encrypted
Timer info	٩	Recording
	~	Reminder

English

2

4

5

6

Guide

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

Thu6				10:	50 Tue, 6 Apr
TV	4 18:00	18:30	19:00	19:30	20:00 ↦
6 M6	09 LES SIM	TS SIM.	05 TOP	MODEL	
9 W9		ERLAND 53	SUMMERLAND		.ES SIM
11 NT1	😳 Nicky La	1 🚱 Street fi	ight 🖭 Drago	n B 🔁 Drago	on B 🖽 K 2000 🔪
31 PARIS PREMIERE	CO MA SOR	CIE 🛐 HA	PPY DAYS 💷 I	HAPPY DAYS	
34 AB1	00 Evamag 27	21 jump stree	et 🔃 Jerry Spr	inger Show 🛙	City guys 🖬 L
800 FlowerGd 6Mbs					
801 FlowerGd 4Mbs					
802 FlowerGd 2Mbs					
804 Codec 4:3					
806 ITV1					
807 ITV3					
808 ITV2					
809 ITV4					

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

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

Press **◄** or **▶** for information on other programmes scheduled for the channel selected. To highlight the first programme in the genre grid, press the RED button.

B For details of other programmes currently available, press \blacktriangle and ∇ to scroll up and down the channel list. As channels are selected, details of the programme currently being broadcast will appear. Press ◀ or ► to view information for future programmes.

For information on a highlighted programme, press ſŧŦ.

To set the timer for that programme, press the **BLUE** button to bring up the Programme Timers menu.

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

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

Genre selection/searching

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

- ก In the Guide screen, press QUICK.
 - Press **A** or **V** to highlight **Genre Colour** in the **Quick** Menu and press OK.

Genre Colour Movies						
	*		۲		1	
		6	Ľ			
Colour Setup						

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

B

2

Press the YELLOW button to access the Genre Search screen.

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

5

7

8

66

Press \blacktriangleleft or \blacktriangleright to select the genre. Programmes listed will change for the new genre. Press \blacktriangle or $\mathbf{\nabla}$ to highlight a particular programme.

6 When a current programme is selected, pressing OK will tune to that programme. When a future programme is selected, pressing OK will open the Set Timer menu.



For information on a highlighted programme, press

To exit the Genre Search and go back to the Guide screen, press the YELLOW button.

⁴

Digital settings – parental control

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

Parental PIN Setup

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

2

B

4

Press ▲ or ▼ to select DTV Settings and press OK.

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

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

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

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

Parental PIN Setup				
New PIN:	*	*	*	*
Confirm PIN:				

The PIN number is now set.

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

Parental Setup

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



2

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

Use **d** 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	Þ

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

Network Lock

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

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

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

2 Press \blacktriangle or \checkmark to select **Network Lock**.

Preferences			
Personal TV Setup			
REGZA-LINK Setup			
Network Setup			
Network Device Setup			
Photo Frame Setup			
Teletext		Auto	
Network Lock	•	Off	•
Panel Lock		Off	V

B Press ◀ or ► to select On.

To unlock the Network:



Select Off in step 3 above.

Digital settings – Channel Options

	Selecting favourite channels
	urite Channels creates a list of the digital channels that watched most. Four lists can be created, they can be a mixture of television, radio and text channels.
1	Select a channel you want to add to your favourite list.
2	Press QUICK to open the Quick Menu.
3	Press ▼ to select Channel Options and press OK .
4	Press ▶ repeatedly to select the favourite list (Fav.1-4).
	Channel Options Fav. 1 2 3 4 - ⊕⊷ வெ I I I I I I I I I I I I I I I I I I I
5	Press OK to select the ones required. A tick will appear in the box as they are selected.
6	Repeat steps 1 through 5 for other channels.
7	When all favourites have been selected, press EXIT .
	Favourite Channel Lists
1	Press LIST to display Channel List.
2	Press ◀or ▶ to select Favourites 1-4. The number of favourites available depends on how many lists have been created.
	Channel List Favourites 1 > 6 M6 9 9 11 NT1 31 PARIS PREMIERE 34 AB1 51 ITV1

B Press ▲ or ▼ to highlight a channel and press **OK** to watch.

Skip channels

This feature allows you to set channels that will be skipped when $\mathbf{P} \sim \text{or } \mathbf{P} \wedge$ are used to tune.

- Select the channel you want to skip in your channel list.
- From the Quick Menu, press ▼ to select Channel Options and press OK.
- B Press ► repeatedly to highlight the skip (- box.
- Press **OK** to select. A tick will appear in the box.
- **5** Repeat steps 1 through 4 for other channels.
- 6 Press EXIT.

NOTE: Skipped channels cannot be selected by P ✓ or P ▲ but still be accessed by direct number entry (when tuned a ④ 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.
- From the Quick Menu, press ▼ to select Channel Options and press OK.
- B Press \blacktriangleright repeatedly to highlight the lock (\bigcirc) box.
- Press **OK** to select. A tick will appear in the box.

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

- 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 \checkmark to select **Subtitle Display** and use \triangleleft or \triangleright to select **On** or **Off**.

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

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

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

Audio languages

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

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

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

Common Interface

The Common Interface Slot, situated on the side of the television, enables the insertion of a CAM (Conditional Access Module) and card. These are purchased from a service provider and allow additional subscription broadcasts to be viewed. For information, see a service provider.

- Insert the CAM and card into the Common Interface Slot, following the instructions provided with the CAM. A box will appear on screen to confirm that the CAM has been inserted.
- Press MENU / I / I / I to highlight Setup / System Setup icons and press OK.
- B Press ▲ or ▼ to select DTV Settings and press OK.
- Press ▲ or ▼ to select Common Interface and press OK.
- **5** Details of the CAM should now be available.

NOTE:

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

Sof	tware Upgrade and Licences	
	Access the sum of a	TOSHIE
	Auto Upgrade	Before
	When Auto Upgrade is set to On , the television will tomatically upgrade while in standby if new software is available.	Configu
1	In the System Setup menu, press ▲ or ▼ to select Software Upgrade and press OK .	able to
2	Press ▲ or ▼ to select Over-the-air Upgrade and press OK .	2
3	Press \blacktriangle or \blacksquare to select Auto Upgrade .	
4	Use ◄ or ▶ to select On or Off .	ß
	Searching for New Software	U
lf pre	eferred, software upgrades can be searched for manually using Search for New Software .	
1	In the System Setup menu, press ▲ or ▼ to select Software Upgrade and press OK .	The lice
2	Press ▲ or ▼ to select Over-the-air Upgrade and press OK .	0
3	Press \blacktriangle or \blacksquare to select Search for New Software .	
4	Press OK . The television will automatically start searching for a software upgrade, the progress bar will move along the line.	
	SEARCHING FOR NEW SOFTWARE Searching for a new software upgrade for this TV. Searching	

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

Network Upgrade

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

e downloading software:

ure your TV to connect to the Internet.

While the upgrade is being performed, you will not be watch the TV.

In the **System Setup** menu, press ▲ or ▼ to select Software Upgrade and press OK.

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

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

The TV software upgrade will start when download succeeds.

Software Licences

ences for the software used in this television are available for viewing.

In the **System Setup** menu, press ▲ or ▼ to select Software Licences and press OK.

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

System Information and Reset TV

System Information

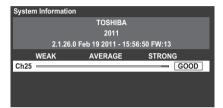
This feature can be used to check the version of software currently installed. When in DTV mode, it includes additional diagnostic information such as signal strength, signal quality, centre frequency, modulation, etc.



In the **System Setup** menu, press ▲ or ▼ to select System Information.



Press OK to display the System Information.



- B For information about the signal quality of a particular multiplex, press \blacktriangle or ∇ to select that multiplex.
- 4 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.

- 1 In the **System Setup** menu, press **A** or **V** to select Reset TV.
- 2 Press OK to select. A screen will appear warning that all settings will be lost. Press **OK** to continue.

When the set powers back on, the Quick Setup screen will appear. Press **OK** to advance the setup and perform an auto tune. (See "Quick Setup" section on page 15.)

PC Settings

Horizontal and Vertical Position

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

- Press MENU / I / I / I to highlight Setup / Preferences icons and press OK.
- Press \blacktriangle or ∇ to select **Display Settings** and press **OK**.
- Press ▲ or ▼ to select PC Settings and press OK.

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

⁴

ก

2

B

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
Clock Phase	0 ————————————————————————————————————
Sampling Clock	0
R	eset

Clock Phase

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

- 1
 - In the **Display Settings** menu, press **A** or **V** to select PC Settings and press OK.
- 2
 - Press ▲ or ▼ to select Clock Phase.
 - B Press ◀ or ▶ to adjust until the picture clears.

Sampling Clock

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

In the **Display Settings** menu, press **A** or **V** to select



П

PC Settings and press OK.



Press \blacktriangle or \checkmark to select **Sampling Clock**. Press \triangleleft or \triangleright to adjust until the picture clears.

Reset

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

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



Press ▲ or ▼ to select **Reset** and press **OK**.

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

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

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

Input selection and AV connections

See page 8 for a detailed image showing recommended connections.

Most media recorders and decoders send a signal through the SCART lead to switch the television to the correct *Input* socket.

Alternatively, press the external source selection button O until the picture from connected equipment is shown.

Input selection

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

By pressing 1 on the remote control or TV, a list will appear on screen showing all inputs and external equipment.

Pressing ⊕ on the remote control

Pressing e on the TV

Inputs
TV
-Ð 1
- ∋ 2
- - > 3
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC

Inputs
DTV Ant (or Cable) TV *
DTV Ant (or Cable) Radio *
DTV Ant (or Cable) Text *
DTV Sat TV *
DTV Sat Radio *
DTV Sat Text *
-⊛1
- € 2
-Ð 3
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC
ATV
If radio or tout channels

 If radio or text channels are currently available for DTV.

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

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

External input skip

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

1

Press **MENU** / **I** / **I** / **I** + to highlight **Setup** / Preferences icons and press OK.



Press A or V to select AV Connection.

Preferences	
Network Setup	
Network Device Setup	
Photo Frame Setup	
Teletext	Auto
Network Lock	
Panel Lock	Off
Display Settings	
AV Connection	



Press OK to display the AV Connection menu.

Press **A** or **V** to highlight **Input Labeling** and press OK.

AV Connection	
Input Labeling	
PC/HDMI 3 Audio	PC
Side Shared Audio	EXT 2
HDMI 3 Audio	Digital
HDMI Settings	
Digital Audio Output	

6

Press \blacktriangle or ∇ to select the input you want to skip, and then press the RED button to turn on the skip.

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

6

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

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

Labeling video input sources

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



Press MENU / I / I / I to highlight Setup / Preferences icons and press OK.

2 Press ▲ or ▼ to select AV Connection and press OK.

B Press \blacktriangle or $\mathbf{\nabla}$ to select **Input Labeling** and press **OK**.

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

⁴

5

Press \blacktriangle or $\mathbf{\nabla}$ to highlight the item you want to label, and then press **d** or **b** to select --, **Amplifier**, **Cable**, DVD, Game, PC, Recorder, Satellite or VCR, or press the GREEN button to select User Input.

NOTE: When User Input is selected by pressing the GREEN button, the Software Keyboard window will appear. Input the desired characters (10 characters or less) by using the Software Keyboard (see page 47) or using the number buttons for a number input. To save your settings, press the **BLUE** button.

Repeat step 4 for other video inputs.

PC Audio

In order to receive sound from a connected PC, plug the audio cable into the back of the television (as shown in the "Connecting a computer" section), and then use the **PC/HDMI 3 Audio** setting.



In the **Preferences** menu, press \blacktriangle or \blacktriangledown to select AV **Connection** and press **OK**.



Press \blacktriangle or \triangledown to select **PC/HDMI 3 Audio** and press \blacktriangleleft or \triangleright to select the **PC** option.

NOTE: Selecting the **PC** option will force HDMI 3 Audio to Digital mode.

Side Shared Audio

The AUDIO terminals for the COMPONENT VIDEO INPUT (EXT 2) and VIDEO INPUT (EXT 3) are shared. Select an appropriate option (EXT 2 or EXT 3) for the input that you are using.



2

In the **Preferences** menu, press \blacktriangle or \blacktriangledown to select AV **Connection** and press **OK**.

Press \blacktriangle or \triangledown to highlight **Side Shared Audio**, and then press \blacktriangleleft or \blacktriangleright to select **EXT 2** or **EXT 3**.

HDMI 3 Audio

If the connected HDMI source does not support digital audio, plug the audio cable into **PC/HDMI 3 (AUDIO)** on the back of the television (as shown in the "Connecting an HDMI* or DVI device to the HDMI input" section on page 9), then use the **HDMI 3 Audio** setting.



2

In the **Preferences** menu, press ▲ or ▼ to select AV Connection and press OK.

Press ▲ or ▼ to select HDMI 3 Audio and press ◀ or ► to select Auto or Analogue.

AV Connection			
Input Labeling			
PC/HDMI 3 Audio		PC	
Side Shared Audio		EXT 2	
HDMI 3 Audio	•	Auto	•
HDMI Settings			
Digital Audio Output			

If the sound is absent, try selecting a different setting.

NOTE: HDMI 3 supports digital and analogue sound, HDMI 1, HDMI 2 and HDMI 4 are digital sound only.

Certain DVD disk formats may not output from this TV (32/44.1/48kHz and 16/20/24 bits are acceptable).

HDMI Settings

Some early HDMI equipment may not work properly with your HDMI TV. Please try setting the Enable Content Type and INSTAPORT™ options to Off. Adjusting these settings should allow your early HDMI source to operate properly with your television.



R

In the **Preferences** menu, press ▲ or ▼ to select **AV Connection** and press **OK**.

2 Press ▲ or ▼ to select HDMI Settings and press OK.

NOTE: HDMI Settings is grayed out on non-HDMI inputs.

Press \blacktriangle or \triangledown to select an item and press \blacktriangleleft or \triangleright to select a setting.

HDMI Settings			
Enable Content Type	•	On	•
INSTAPORT™		On	
RGB Range		Auto	

Enable Content Type: On

When set to On, the TV will automatically adjust settings according to the content type data sent from the connected HDMI device.

INSTAPORT[™]: On

This feature reduces the lag time when switching HDMI sources.

RGB Range: Auto

This feature adjusts RGB full range signal automatically. When **Limited** is selected, RGB signal is output in the range from 16 to 235. When **Full** is selected, RGB signal is output in the range from 0 to 255.

NOTE:

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 50Hz or supports Deep Colour, you will need a Category 2 cable. Conventional HDMI/DVI cables may not work properly with this mode.
- All of the above HDMI settings need proper HDMI source devices.

If the HDMI source products do not support these features, the television may not work properly by activating these features.

Digital Audio Output

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



In the **Preferences** menu, press \blacktriangle or \blacktriangledown to select **AV Connection** and press **OK**.



R

Press **A** or **V** to select **Digital Audio Output**.

AV Connection	
Input Labeling	
PC/HDMI 3 Audio	PC
Side Shared Audio	EXT 2
HDMI 3 Audio	Auto
HDMI Settings	
Digital Audio Output	

Press OK to display Digital Audio Output menu and press \blacktriangle or $\mathbf{\nabla}$ to select an option.

Audio Format:

Press I 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 Delav:

Press I or to select Auto or Manual

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

Delay Adjustment:

Press \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 Personal TV Mode

You can customize some TV functions as desired and those settings can be saved in one of 4 Personal Modes (A to D). The Personal Mode can be selected from the **Ouick Menu**.

To select the Personal Mode



Press OUICK to open the Ouick Menu.

2 Press **A** or **V** to select **Personal Mode** and press **OK**.

Personal Mode	
Normal	
Personal Mode A	
Personal Mode B	
& Personal Mode C	
8 Personal Mode D	

Press \blacktriangle or corresponding coloured button to select individual Personal Mode from Normal, Personal Mode A. Personal Mode B. Personal Mode C and Personal Mode D. The mode will default to Normal every the TV is turned off and on.

NOTE: If the Personal PIN has been set, the Lock icon will be displayed. If the Personal PIN entry screen is displayed, enter the correct Personal PIN.

Personal TV Setup



B

Press **MENU** / **** / **** / **** to highlight **Setup**/ Preferences icons and press OK.



Press **A** or **V** to select **Personal TV Setup** and press OK.

Personal TV Setup	
Personal Mode A	
Personal Mode B	A
Personal Mode C	Ĥ
Personal Mode D	



Press \blacktriangle or $\mathbf{\nabla}$ (or corresponding coloured button) to select the individual Personal Mode and press OK.

Personal TV Setup Personal Mode A	
Edit Name	
Personal PIN Setup	
Volume Type	Default
Preset Volume	50

Edit Name

You can edit the name of your Personal Mode. Press \blacktriangle or \blacktriangledown to select **Edit Name** and press **OK**. Edit the desired name by using the software keyboard (see page 47). The maximum number of characters is 25.

Personal PIN Setup

Press \blacktriangle or \blacktriangledown to select **Personal PIN Setup** and press **OK**. Enter your personal PIN in same manner as "Parental PIN Setup" on page 67.

Volume Type

Press \blacktriangle or \triangledown to select **Volume Type** and press \blacktriangleleft or \triangleright to select **Preset** or **Last**.

Last — The last volume level in your Personal Mode.

Preset — The Preset volume level is selected whenever the Persona Mode is switched.

Preset Volume

Press \blacktriangle or \checkmark to select **Preset Volume** and press \blacktriangle or \checkmark to adjust your desired volume level. When the **Volume Type** is set to **Last**, this feature will be grayed out.

Behaviour in Personal Mode

Personal Favourite Channel List (Fav5 - Fav8):

Normal Mode: Fav1 / Fav2 / Fav3 / Fav4 Personal Mode A: Fav5 Personal Mode B: Fav6 Personal Mode C: Fav7 Personal Mode D: Fav8 Press the LIST button to display Channel List and press ◀or ► to select All or your Personal Mode (Fav5 - Fav8)

Personal Picture Mode:

The Picture Mode you selected is stored in your Personal Mode.

Personal Volume:

The sound volume you set is stored in your Personal Mode.

Using REGZA-LINK

This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK compatible devices from the television remote control via HDMI connection (page 10).

When the **Enable REGZA-LINK** item in the **REGZA-LINK Setup** menu is set to **On**, individual functions also set to **On** will be activated.

Enable REGZA-LINK

- Press MENU / ↓ / ↓ / ↓ to highlight Setup / Preferences icons and press OK.
- Press ▲ or ▼ to select **REGZA-LINK Setup** and press OK.
- Press ▼ to select Enable REGZA-LINK and press ◀ or
 to select On.

REGZA-LINK Setup			
Enable REGZA-LINK	•	On	•
TV Auto Power		On	
Auto Standby		On	
Amplifier Control		On	
Initial Speaker Setting		TV Speakers	
Position Key Pass Through			

NOTE: If you set Enable REGZA-LINK to Off, all other items will be grayed out.

TV Auto Power

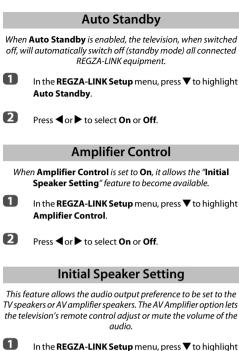
The **TV Auto Power** setting allows the television to be automatically switched on if a REGZA-LINK device is turned on.

In the **REGZA-LINK Setup** menu, press **V** to highlight **TV Auto Power**.

Press ◀ or ► to select On or Off.

ก

2



In the **REGZA-LINK Setup** menu, press **V** to highl **Initial Speaker Setting**.

2

Press **d** or **b** to select **TV Speakers** or **Amplifier**.

Position Key Pass Through

When **Position Key Pass Through** for the selected HDMI input mode is set to **On**, the $P \land P \lor$ and number (0-9) keys on the remote control will pass through. When in **Off**, those operate as TV programme selection keys.



In the **REGZA-LINK Setup** menu, press **V** to highlight **Position Key Pass Through** and press **OK**.



Press \blacktriangle or \triangledown to select the appropriate HDMI mode.



Press ◀ or ▶ to select **On**.

REGZA-LINK input source selection

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



Press 🕣 and a list will appear on screen showing available input sources.



Press ▼ to select the desired input source with REGZA-LINK icon.



Press ► and a second selection screen will appear showing all connected REGZA-LINK equipment.

Inputs	1
TV	h
-⊛1	h
	h
-€) 3	h
HDMI 1	
HDMI 2	
HDMI 3 REGZA-LINK	
HDMI 4	
PC	

4	1	DVD
Π	2	VCR/DVR
Π	3	CBL/SAT
Π	4	GAME/TV
Π	5	AUX
		3

4

Press \blacktriangle or \bigtriangledown to select the desired input source, and then press **OK**.

NOTE:

- · These functions depend on the device connected.
- If you select the REGZA-LINK input source from the popup window, some REGZA-LINK devices may automatically turn on.
- When the television is switched on it will take a few minutes for the REGZA-LINK icon to appear in the list. When an HDMI cable is removed, it will take a few minutes for the icon to disappear.
- If the HDMI cable from connected equipment is changed, Enable REGZA-LINK in the REGZA-LINK Setup menu may need to be reset to On.
- If you change the HDMI lead to a connected device or change an HDMI device setting, reset the Enable REGZA-LINK item on the REGZA-LINK Setup menu from Off to On.

REGZA-LINK Device Control

With the REGZA-LINK mode on your television's remote control, you can control the connected REGZA-LINK device you are watching.

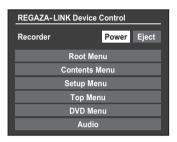
To control the REGZA-LINK input source first select the equipment by REGZA-LINK input source selection.



Press QUICK to open the Quick Menu.

2

Press \blacktriangle or \blacktriangledown to select **REGZA-LINK Device Control** and press **OK**.



3

Press \blacktriangle or \blacksquare to select a control option and press **OK**.

NOTE: The available functions depend on the equipment connected. Please refer to the operation manual for each piece of equipment connected.

REGZA-LINK one touch play

When connected equipment is switched on, REGZA-LINK will automatically detect the television through the input selection. If the television is in standby, it will be switched on automatically.

These functions can be enabled or disabled from the REGZA-LINK Setup (see page 76).

NOTE:

- Even if the equipment is showing a menu, the television may automatically show the input source.
- This feature depends on the connected equipment and television state.

REGZA-LINK system standby

If the television is turned off (standby mode), the television will send a message to turn off (standby mode) all of the REGZA-LINK devices connected to the television.

These functions can be enabled or disabled from the REGZA-LINK Setup (see page 76).

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

REGZA-LINK system audio control

With your television's remote control, you can adjust or mute the sound volume of the speakers connected to the television via an AV amplifier.



Set the Initial Speaker Setting to Amplifier in the REGZA-LINK Setup menu.

Confirm that a connected REGZA-LINK device (such as a DVD player, etc) is selected for the AV amplifier input source.

NOTE:

- These functions depend on the device connected.
- When you turn on the AV amplifier, change its input source, or adjust the sound volume, the sound will be output from the AV amplifier's speakers even if **TV Speakers** has been selected. Turn the television off and on again to output the sound from the TV Speakers.
- This feature may not work if the AV amplifier is operated.

Toshiba PC compatible with REGZA-LINK

This feature automatically adjusts the suitable widescreen formats and picture preferences when connected to a Toshiba PC compatible with REGZA-LINK.

NOTE: This feature depends on the connected equipment state.

English

Text services

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

Selecting modes

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

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

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

Preferences			
Personal TV Setup			ľ
REGZA-LINK Setup			ł
Network Setup			
Network Device Setup			
Photo Frame Setup			
Teletext	•	Auto 🕨	•
Network Lock			
Panel Lock		Off	Ī

Text information

The TEXT button:

To view text services press **TEXT**. Press again to superimpose the text over a normal broadcast picture and again to return to normal viewing. Channels cannot be changed until text is cancelled.

The first text page shown will be the *initial* page.

Any text page can be accessed by entering the 3 digit page number using the numbered buttons, pressing the coloured buttons or pressing P^{\wedge} to advance to the next page and P^{\vee} to go back to the previous page.

Sub-pages

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

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

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

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

Navigating pages using Auto

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

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

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

Navigating pages using LIST

The four coloured choices at the bottom of the screen are numbers – 100, 200, 300 and 400, which have been programmed into the television's memory. To view these pages, press the relevant coloured buttons.

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

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

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

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

Control buttons

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

i To display the index/initial page:

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

TEXT To display a page of text:

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

Ξ? To reveal concealed text:

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

E To hold a wanted page:

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

E To enlarge the text display size:

Press \equiv once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to normal size.

()/EX To select a page whilst viewing normal picture:

Enter the page number then press (), normal picture will be displayed. The television will indicate when the page is ready by changing the colour of the page number at the top of the screen. Press **TEXT** to view the page.

To display news flashes:

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

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

English

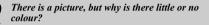
Ouestions and Answers

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



Why is there no sound or picture?

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



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

To check that you have the best colour:



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

System Setup	
Menu Language	English
Country	Germany
Colour System	◄ Auto ► ▼

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



2

Why doesn't the video/DVD being played show on screen?

Make sure the media recorder or DVD player is connected to the television as shown on page 8, and then select the correct input by pressing $-\mathfrak{O}$.

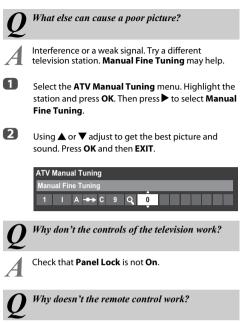


Why is there a picture but no sound?

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.





Check that the batteries aren't dead or inserted



Why is the digital channel locked?



The channel has been locked in Channel Options (see "Digital settings - Channel Options" section).



Why are some of the digital subscription channels unavailable?



Your subscription needs upgrading. Contact your service provider.



Why is the soundtrack in English when a different audio language has been selected?



The programme is currently being broadcast with an English soundtrack only.



Why is there incorrect or no sound when in DTV mode?



Press OI/I to ensure the hard of hearing option has not been selected.

2	What is DVB-T?	Q	Why is a page number visible at the top of the screen but no text?
1	Digital Video Broadcast via an aerial/antenna.	A	Text has been selected but Teletext information is currently unavailable on the current source.
2	What is DVB-C?	Q	Why are the colours wrong when an NTSC sour is played?
1	Digital Video Broadcast via a cable connection.	A	Connect the source via a SCART lead and play. Select Colour System from the System Setup mer
2	How are radio channels selected?	0	Set the Colour to Auto and exit.
1	Press TV on the remote control and select DTV	2	Go to the Picture menu and adjust the tint.
1	Radio. Alternatively select from the GUIDE.	Q	Why don't the devices connected via HDMI operate properly?
Į	forgotten?	A	Make sure to use cables with the HDMI logo
1	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.	ip e	Some early HDMI equipment may not work proper with the latest HDMI TV products, due to new standard adoption. Try switching the HDMI setting (Enable Content Type and INSTAPORT ^M) to Off.
2	Why are there vertical stripes on the screen when in PC mode?	<i>Q</i>	Why don't the REGZA-LINK devices work?
4	The Sampling Clock may need adjustment. Select PC Settings from the Display Settings menu, highlight Sampling Clock and adjust until the lines clear.	A	When the connected REGZA-LINK device does not work correctly after you have changed the settings the device, turn off your television and unplug the power cord, and then plug and turn on again. Unplug the HDMI cable of the REGZA-LINK device
2	Why are there horizontal stripes and/or blurred images on the screen when in PC mode?		and lead again.
4	The Clock Phase may need adjustment. Select PC Settings from the Display Settings menu, highlight	Q	Why is the REGZA-LINK logo still showing whe the equipment has been disconnected?
	Clock Phase and adjust until the picture clears. <i>Why when digital subtitles have been selected are</i>	A	If the REGZA-LINK device is disconnected, the logo will disappear after approximately one minute.
Į	they not showing on screen?	0	Why don't the networked devices work?
4	Subtitles are not currently being transmitted by the broadcaster.	Ľ	The LAN cables are not connected properly or at a
2	Why are there problems with analogue text?	A	The LAN cables are not connected properly or at al Connect all cables (see page 12). Make sure your network address is set up correctly (see page 45).
4	Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check the	Q	Why doesn't the wireless network work?
	aerial. Go to the <i>main index</i> page of the text service and look for the <i>User Guide</i> . This will explain the basic operation of text in some detail. If further information is needed on how to use text <i>see the text section</i> .	A	Make sure the TOSHIBA Dual Band WLAN Adaptor used (see page 12). Check that the AP is powered on.



Why doesn't the Media Player feature operate?

Make sure that devices are connected correctly. Incorrect behaviour may occur with a USB Hub connection.

Check your network setup if using DLNA CERTIFIED $\ensuremath{^{\rm TM}}$ Server.



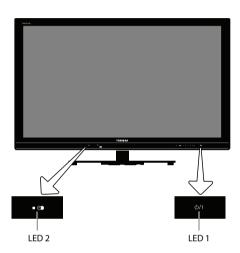
What do the LEDs on the front of the television indicate?

Check the table below.

Other problems

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

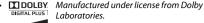
- 1 Turn off your TV. After 30 seconds, turn it on.
- 2 Turn off the TV and unplug the power cord. After 1 minute, plug the power cord in and turn on the TV.
- **3** Perform the Reset Factory Defaults procedure (see page 71).



LED inc	lication	Condition	Solution
LED-1	LED-2	Condition	Solution
Blue	Orange	Power ON Programme Timer is set Both Programme Timer (Recording) and Recording are NOT working	-
Blue	Red	Power ON Programme Timer (Recording) or Recording is working	-
Blue	OFF	Power ON Programme Timer is NOT set Both Programme Timer (Recording) and Recording are NOT working	-
Red	Orange	Power OFF (Standby) Programme Timer is set Both Programme Timer (Recording) and Recording are NOT working	-
Red	Red	Power OFF (Standby) Programme Timer (Recording) or Recording is working	-

LED indi	cation	Condition	Solution
LED-1	LED-2	Condition	Solution
Red	OFF	Power OFF (Standby) Programme Timer is NOT set Both Programme Timer (Recording) and Recording are NOT working	-
OFF	Green (Blinks)	Abnormal operation of BUS line.	Turn OFF the TV and unplug the
Red (Blinks)	OFF	Abnormal operation of WDT.	power cord. Plug the power cord in
Blue (Blinks)	OFF	Fan stopped. (if applicable)	again and turn ON the TV.
Orange	Green	For Service SW Upgrade in Progress	-
Red	OFF	For Service SW Upgrade Failed	-
Blue	OFF	For Service SW Upgrade Successful	-

License Information



Dolby and the double-D symbol are trademarks DOLBY. OLUME of Dolby Laboratories.

- HOMI HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or reaistered trademarks of HDMI Licensina, LLC.
- INSTAPORT[™] and INSTAPORT logo are trademarks of Silicon Image, Inc. in the United States and other countries.
- YouTube and the YouTube Logo are trademarks of Google Inc.
- This product contains NetFront Browser of ACCESS CO., LTD.
- ACCESS, the ACCESS logo and NetFront are ACCESS" trademarks or registered trademarks of ACCESS NetFront[®] CO., LTD. in the United States, Japan and other countries.

© 2010 ACCESS CO., LTD. All rights reserved. This software is based in part on the work of the Independent JPEG Group.

- Opera® Browser from Opera Software ASA. OPERA Copyright 1995-2010 Opera Software ASA. All riahts reserved. For further information, please see http://www.opera.com
- This product contains Adobe® Flash® Player software under license from Adobe Systems Incorporated. Copyright © 1995-2009 Adobe Systems Incorporated. All rights reserved. Adobe and Flash are trademarks of Adobe Systems Incorporated.
- DivX⁺ DivX[®], DivX Certified[®], DivX Plus[™] HD and LID associated loaos are trademarks of DivX. Inc. and are used under license. Covered by one or more of the following U.S. natents 7,295,673; 7,460,668; 7,515,710; 7,519,274
- DVB is a registered trademark of the DVB Project.

- DLNA[®], DLNA[®] Certification Loao and DLNA CERTIFIED[™] are registered trademarks, service marks, or certification marks of the Diaital Livina Network Alliance.
- THIS PRODUCT IS LICENSED UNDER THE AVC PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NONCOMMERCIAL USE OF A CONSUMER TO (i) ENCODE VIDEO IN COMPLIANCE WITH THE AVC STANDARD (AVC VIDEO) AND/ OR (ii) DECODE AVC VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NONCOMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED TO PROVIDE AVC VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION MAY BE OBTAINED FROM MPEG LA, L.L.C.

SEE HTTP://WWW.MPEGLA.COM

- THIS PRODUCT IS LICENSED UNDER THE MPEG-4 VISUAL PATENT PORTFOLIO LICENSE FOR THE PERSONAL AND NONCOMMERCIAL USE OF A CONSUMER FOR (i) ENCODING VIDEO IN COMPLIANCE WITH THE MPEG-4 VISUAL STANDARD ("MPEG-4 VIDEO") AND/OR (ii) DECODING MPEG-4 VIDEO THAT WAS ENCODED BY A CONSUMER ENGAGED IN A PERSONAL AND NON-COMMERCIAL ACTIVITY AND/OR WAS OBTAINED FROM A VIDEO PROVIDER LICENSED BY MPEG LA TO PROVIDE MPEG-4 VIDEO. NO LICENSE IS GRANTED OR SHALL BE IMPLIED FOR ANY OTHER USE. ADDITIONAL INFORMATION INCLUDING THAT RELATING TO PROMOTIONAL, INTERNAL AND COMMERCIAL USES AND LICENSING MAY BE OBTAINED FROM MPEG LA,L.L.C. SEE HTTP://WWW.MPEGLA.COM
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.
- Audyssey EQ technology **AUDYSSEY** EQ
- Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey EQ is a registered trademark of Audyssey Laboratories. Audyssey EQ is based on the same core technology as Audyssey MultEQ that is used for automatic correction of room acoustics. Audyssey EQ uses time-domain filters to correct problems that arise from speaker drivers and enclosures and is calibrated to account for the acoustical problems in a typical listening environment.
- Hybrid TV Standard is implemented according to ETSI TS 102 796 v1.1.1.

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.





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	5 Ground		NC
2	G	7	Ground	12	NC
3	В	8	Ground	13	H-sync
4	NC*	9	NC	14	V-sync
5	Ground	10	Ground	15	NC

* NC = not connected

Acceptable PC signals through the PC terminal

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

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

Acceptable video or PC signals through the HDMI terminals

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

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

Media Player Supported Format

Media Player	Media Format	File Extension	Video/Audio codec	USB	DMS	Note
Photo	JPEG	.jpg .jpeg	JPEG	Yes	Yes	 <usb></usb> Data compatibility: JPEG Exif ver 2.2 Maximum viewable resolution: 4096 x 4096 (HW decode) 16384 x 16384 (SW decode) Maximum photo size: 9MB Maximum number of files: 2000 / folder <dms></dms> Data compatibility: JPEG EXIF Ver.1.x or later, JFIF 1.02a Maximum photo size: 6 MB Maximum photo size: 6 MB Maximum number of files: 2000 / folder
Movie	MPEG-2 PS	.mpg	Video) MPEG-1 Video	Yes	No	<usb></usb>
	MPEG-2 TS	.mpeg .ts	Video) MPEG-2 Video	Yes	Yes	Maximum number of files: 2000 / folder <dms></dms>
		.03	H.264 (MPEG-4 AVC) Audio) MPEG-1 Layer1	Yes	Yes	Maximum number of files: 2000 / folder
			MPEG-1 Layer2 MPEG-1 Layer2 Dolby Digital (AC-3) L-PCM (MPEG-2 PS only)	163	163	 *)Some files may not be played. *)Normal playing and trick playing may not be available depending on the contents.
			Audio) Dolby Digital Plus AAC HE AAC	Yes	No	*) Div X external subtitles are not supported.
	MP4	.mp4	Video) H.264 (MPEG-4 AVC)	Yes	Yes	
		.m4v	Audio) AAC	Yes	Yes	
			Audio) HE AAC Dolby Digital (AC-3) Dolby Digital Plus	Yes	No	
	AVI	.avi	Video) DivX (3,4,5,6)	Yes	No	
	DivX DivX Plus HD	.divx .div	Audio) Dolby Digital (AC-3) MPEG-1 Layer2 MPEG-1 Layer3	Yes	No	
	MKV	.mkv	Video) H.264	Yes	No	
	DivX Plus HD		Audio) AAC HE AAC Dolby Digital (AC-3) MPEG-1 Layer 3	Yes	No	
	AVCHD	.mts	Video) H.264 (MPEG-4 AVC)	Yes	Yes	
		.m2ts	Audio) Dolby Digital (AC-3)	Yes	Yes	
Music	MP3	.mp3	Audio) MPEG-1 Audio Layer-3 MPEG-2 Audio Layer-3 MPEG-2.5 Audio Layer-3	Yes	Yes	<usb> Maximum number of files: 2000 / folder <dms></dms></usb>
	MP4	.mp4	Audio) AAC	Yes	No	Maximum number of files: 2000 / folder
		.m4a	Audio) HE AAC	Yes	No	*) Some files may not be played.
	L-PCM		Audio) L-PCM	No	Yes	

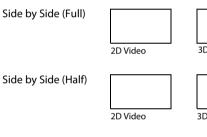
3D Support Format (HDMI)

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
720p	16:9	59.940/60.000Hz	Side by Side (Half)
			Top and Bottom
		50.000Hz	Side by Side (Half)
			Top and Bottom
1080i	16:9	59.940/60.000Hz	Side by Side (Half)
		50.000Hz	Side by Side (Half)
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.



L	R
3D Video	

	L	R		
3D Video				

D Video

Receiving systems

Receiving sy	stems					
	cast systems/chai	nnels		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, UHF 21-69	F,G,H,H1,I	,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 sy	stems				
Video Input	PAL, SECAM, N	SC 3.58/4	1.43			
External co	nnections					
EXT 1	Input/Output	21-pin	SCART	RGB, A/V input AV out, TV out		
EXT 2	Input	Phono Phono	,	Y, P _B /C _B , P _R /C _R Audio L + R		
EXT 3	Input	Phono	jacks	Video/Audio L + F		
HDMI 1/2/3/	4 Input	HDCP o (Enable	compliant compliant content Typ nge, support	oe, INSTAPORT™, ted)		
PC	Input	Analog	RGB			
PC/HDMI 3 A	udio input	3.5mm	mini jack	Audio		
Digital Audio	Output (S/PDIF) Optical				
LAN port		RJ-45				
USB 1/USB 2	port	USB cla	Player ce version: U iss: Mass Stoi tem: FAT16 a	rage		
USB 2 port			k, IEEE802.1	or ready for a home Ia/b/g/n		
Headphone	socket	3.5mm	stereo			
Stereo		A2, Nic 2 carrie	am er system			
Visible Scre (approx.)	en Size Model	42 47	107cm 119cm			
Display		16:9				
Sound outp (at 10% disto		Main: Woofei	10W + 10V r: 10W	V		

			English				
Power consumption (approx.)	42VL 47VL	163W 163W					
Annual power consumption* (approx.)	42VL 47VL	167.9kWh 167.9kWh					
On mode power consumption** (approx.)	42VL 47VL	115W 115W					
Standby power consumption (approx.)	42VL 47VL	0.3W 0.3W					
* Operating 4 hours a day and 365 days a year.							
** Tested in accordance with IEC 62087-BD Ed. 2.0:2008.							
Dimensions (approx.)	47VL	69cm (H) 101cm (W) 29cm (D) 75cm (H) 112cm (W) 29cm (D) dimension includes foot stand)					
Weight (approx.)	42VL 47VL	17.5kg 22.5kg					
Operating condition		Temperature 5°C - 35°C (41°F - 94°F) Humidity 20 - 80% (non-condensing)					
Supplied accessories	2 bat Four SCAI Com AV A RGB, cable Two YP' Cl	Remote control CT-90383 2 batteries (AAA, IEC R03 1.5V) Four pairs of 3D glasses SCART Adaptor cable Component Adaptor cable AV Adaptor cable RGB/PC-D-sub15pin(mini) Adaptor cables(w/audio) Two Cable clamps 'P' Clip/Screw (for TV mounting) See page 5.					
Optional accessories		HBA Dual Band WLAN Adaptor I-10U2					

© TOSHIBA Television Central Europe Sp. z o.o. All rights reserved. Reproduction in whole or part without written permission is strictly prohibited.

> TOSHIBA Television Central Europe Sp. z o.o. ul. Pokoju 1, Biskupice Podgórne, 55-040 Kobierzyce, Poland

