TOSHIBA
Leading Innovation >>>

OWNER'S MANUAL
Integrated Digital LCD TV

DOLBY DIGITAL PLUS　**DOLBY VOLUME**　**DIVX+ HD**　**ACCESS™**

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE　**DVB**　**AUDYSSEY EQ**　**NetFront®**

32SL800A
42SL800A
46SL800A

Owner's Record
You will find the model number and serial number on the back of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your TOSHIBA dealer regarding this product.

Model number:

Serial number:

TD/CA2　VX1A00211100

Contents

Welcome to Toshiba

- Thank you for purchasing this Toshiba LCD Colour TV. This manual will help you use the exciting features of your new TV.

- Instructions in this manual are based on using the remote control.

- Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.

Important Safety Instructions

Be sure to observe the following instructions and precautions to ensure safe use of this TV.

Installation

1) **WARNING: To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions. Install the TV in a horizontal, stable location.**

Attach the TV to the stand with the mounting screw provided, or secure the TV to the level surface using the strap if fitted, or to a wall using a sturdy tie to the clip provided.

• If the TV is not installed securely, it may lean or fall over and cause an injury.
• To prevent injury, use the exclusive optional stand or wall-hanging bracket to install this TV on the floor or wall securely in accordance with a qualified technician.

Fixing strap

Fixing strap

Sturdy tie (as short as possible)

Stand clips

Clip
(supplied)
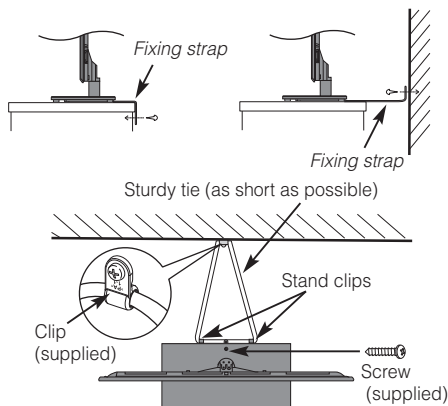
Screw
(supplied)

When using a Wall Bracket

Always use the screws recommended by the wall mount manufacturer.

Remove four screws.
(Do not reuse these screws for attaching a wall bracket.)
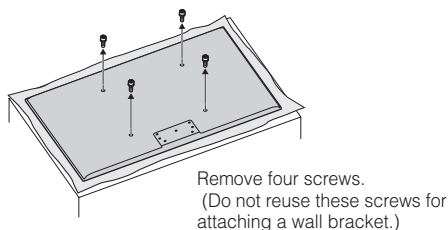
2) Never place the TV in an unstabilized location such as on a shaky table, incline or location subject to vibration.
• Only use cabinets or stands recommended by the TV manufacturer.
• Only use furniture that can safely support the TV.
• Ensure that the TV is not hanging over the edge of the supporting furniture.
• Never place the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.

• Never stand the TV on cloth or other material placed between the TV and supporting furniture.

The TV may drop or fall off, which may cause an injury or damage.

3) Never stand or climb on the TV.
• Educate children about the dangers of climbing on furniture to reach the TV or its controls.

Be especially careful in households with children to prevent them through climbing on top of the TV. It may move, fall over, break, become damaged or cause an injury.

4) Always connect the power plug to an appropriate electrical outlet equipped with 110-240V, AC 50/60Hz.

Never use the TV outside the specified voltage range. It may cause a fire or an electric shock.

Ex. 110-240V AC, 50/60Hz

Check!
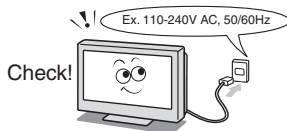
5) Never insert or remove the power plug with wet hands.

This may cause an electric shock.

3
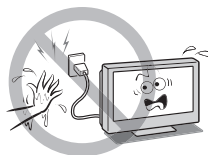
6) Never block or cover the slots and openings in the cabinet.

- Never place the TV so that it is facing upward or on its side.
- Never place the TV in a closet, bookcase or other similar area where the ventilation is poor.
- Never drape a newspaper, tablecloth or curtain on the TV.
- When installing the TV against a wall, always keep the TV at least 10 cm away from the wall.
- Never place the TV on a soft unstable surface, such as a carpet, or a cushion.

The inside of this TV will overheat if the ventilation holes are covered, blocked or sealed, which may result in a fire.

7) Never place the TV near a heater or in direct sunlight.

The surface of the cabinet or power cord may melt and result in a fire or an electric shock.

8) Never place the TV in an area exposed to high humidity levels, such as in a bathroom or close to a humidifier.

This may cause a fire or an electric shock.

9) Never place the TV next to a stove where it will be exposed to oil, smoke, or steam, or in a location where there is a large quantity of dust.

This may cause a fire or an electric shock.

10) Precautions for moving the TV

- When moving the TV, be sure to remove the plug from the wall outlet and disconnect the aerial cable and audio/video cables, any steady ties and mounting screw. A fire or an electric shock may result if the power cord is damaged.
- When carrying the TV, at least two people are needed. Be sure to carry it upright.
- Never carry the TV with the screen facing up or down.
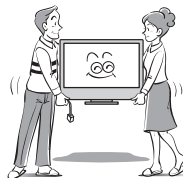
11) Precautions for installing on outdoor aerial

An outside aerial system should not be located in the vicinity of overhead power lines, or other electric light or power circuits.

If the aerial falls down or drops, it may cause an injury or an electric shock.

Use

1) Never place hot objects or open flame sources, such as lighted candles or nightlights, on or close to the TV.

High temperatures can melt plastic and lead to fires.

2) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

When liquids are spilled or small items are dropped inside the TV, this may cause a fire or an electric shock.

If small objects drop inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician.

3) Never insert objects (metal or paper) or pour water inside the TV through ventilation holes and other openings.

These items may cause a fire or an electric shock. If these objects are inserted inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician. Be especially careful that children do not insert objects in the TV.

4) When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet for safety.

• The TV is not completely disconnected from the power supply line, as minute current is consumed even when the ⏻ Power switch is turned off.

• The Mains plug or an appliance coupler is used as the disconnect device, therefore the disconnect device shall remain readily operable.

5) Never pull on the power cord when removing the plug from the wall outlet.

Always hold the plug firmly when removing it. If the power cord is yanked, the cord may become damaged and a fire or an electric shock may occur.

6) Never cut, break, modify, twist, bunch up or bent the cord or apply excessive force or tension to it.

Never place heavy objects on the cord or allow it to overheat as this may cause damage, a fire or an electric shock. Contact a service technician if the power cord is damaged.
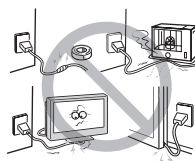
7) If there is thunder or lightning, never touch the aerial cable or other connected cables.

You may suffer an electric shock.

Service

1) Never repair, modify or disassemble the TV by yourself.

It may cause a fire or an electric shock.
Consult a service technician for inspection and repairs.

2) When a malfunction occurs, or if smoke or an unusual odour comes from the TV, turn off the TV and remove the power plug from the outlet immediately.

Make sure that the smoke or smell has stopped, then contact a service technician. If the TV is still used in this condition, it may cause a fire or an electric shock.

3) If the TV is dropped or the cabinet is broken, turn off the TV and remove the power plug from the outlet immediately.

If the TV has power in this condition, it may cause a fire or an electric shock. If the cabinet is broken, be careful when handling the TV to prevent an injury.

Contact a service technician for inspection and repair.

4) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV.

Cleaning

1) Remove the power plug before cleaning.
Never use solvents such as benzene or thinner to clean the TV.
- These solvents may distort the cabinet or damage its finish.
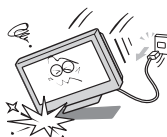- If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.

If the cabinet becomes dirty, clean it with a soft, dry cloth.

When cleaning the surface of the LCD display, wipe the panel surface gently with a soft, dry cloth.

2) Periodically disconnect the power plug from the outlet and check it.
If dust has collected on the power plug connectors, clean off the dust with a dry cloth.

This dust may cause a fire due to reduced insulation on the plug.

Important information

1) LCD screen
- If you have the LCD screen facing to the sun, the LCD screen will be damaged. Be aware of locating the TV close to a window or outdoors.
- Never press the LCD screen strongly or scratch it, and never put anything on it. These actions will damage the LCD screen.

2) Cabinet and LCD screen
Never spray volatile compounds such as insecticide on the cabinet and LCD screen.
This may cause a discolouration or damage the cabinet and LCD screen.

3) Some pixels of the screen do not light up
The LCD display panel is manufactured using an extremely high level of precision technology; however, sometimes some pixels of the screen may be missing picture elements or have luminous spots. This is not a sign of malfunction.

4) Interference
The LCD display may cause interference in image, sound, etc. of other electronic equipment that receives electromagnetic waves (e.g. AM radios and video equipment).

5) Using in low temperature areas
If you use the TV in the room of 0°C or less, the picture brightness may vary until the LCD monitor warms up.
This is not a sign of malfunction.

6) Afterimages

If a still picture is displayed, an afterimage may remain on the screen; however, it will disappear. This is not a sign of malfunction.

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- Toshiba is not liable for incidental damages (such as profit loss or interruption in business, modification or erasure of record data, etc.) caused by use or inability to use product.

- Toshiba is not liable for any damage caused by neglect of the instructions described in the owner's manual.

- Toshiba is not liable for any damage caused by misuse or malfunction through simultaneous use of this product and the connected equipment.

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Connecting an aerial

Optimum reception of colour requires a good signal and will generally mean that an outdoor aerial must be used. The exact type and positioning of the aerial will depend upon your particular area.
Your Toshiba dealer or service personnel can best advise you on which aerial to use in your area.
Before connecting the aerial cable, turn off all main power switches.

Exploring your new TV

Installing the remote control batteries

Remove the battery cover.
Insert two R6 (AA) batteries matching the –/+ polarities of the battery to the –/+ marks inside the battery compartment.

Cautions:
- *Dispose of batteries in a designated disposal area. Batteries must not be exposed to excessive heat such as sunshine, fire or the like.*
- *Attention should be drawn to the environmental aspects of battery disposal.*
- *Never mix battery types or combine used batteries with new ones.*

Notes:
- *If the remote control does not operate correctly, or if the operating range becomes reduced, replace both batteries with new ones.*
- *If the batteries are dead or if you will not use the remote control for a long time, remove the batteries to prevent battery acid from leaking into the battery compartment.*

Effective range

TV panel controls

• You can operate your TV using the Touch Keys on the front of the panel or the remote control. The back and side of the panel provide the terminal connections to connect other equipment to your TV (☞ "Connecting your TV" pages 41 – 65).

• For the use of each control, see the pages in brackets.

TV top view

15°
15°
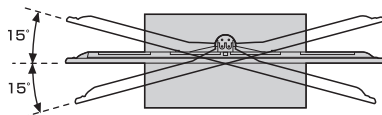
You can swivel the TV screen.
Swivel angle: 15 degrees to left and right.

TV front view

Brightness sensor
(☞ page 24)

□ ⏻/| □ ◔   ⊕   MENU   − ◢ +   ▼ Ⓟ ▲   ⏻/|

7   *6*   *5*   *4*   *3*   *2*   *1*
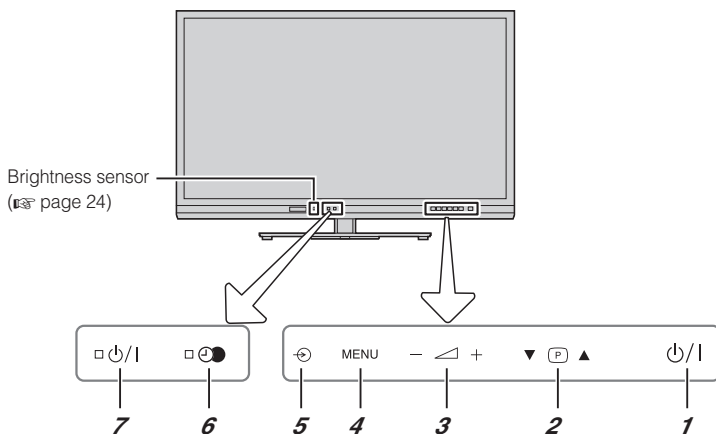
1   ⏻/| **(power on/standby)** — Touch to turn the TV on/ standby (☞ page 13).

2   Ⓟ▲▼ **(Programme position)** — When no menu is on-screen, these keys select the programme position.(☞ pages 17, 20).
⌃⌄ **(menu up/down)** — When a TV menu is on-screen, these keys function as up/down menu navigation keys (☞ page 16).

3   ◢ – / + **(volume)** — When no menu is on-screen, these keys adjust the volume level.
‹› **(menu left/right)** — When a TV menu is on-screen, these keys are used for left/right menu navigation and to adjust settings (☞ page 16).

4   **MENU** — Press to access the TV menu (☞ page 16).
BACK — When a TV menu is on-screen, this button will take you back to the previous menu.

5   ⊕ **(input source selection)** — When no menu is on-screen, this button selects the input source (☞ page 31).
OK — When a TV menu is on-screen, this button will make a selection or take you to the next available menu layer.

6   ◔ **(programme timer LED)** — Programme timer indicator (☞ page 30).

7   ⏻/| **(power LED)** — Power indicator (☞ page 13).

TV back and left side view
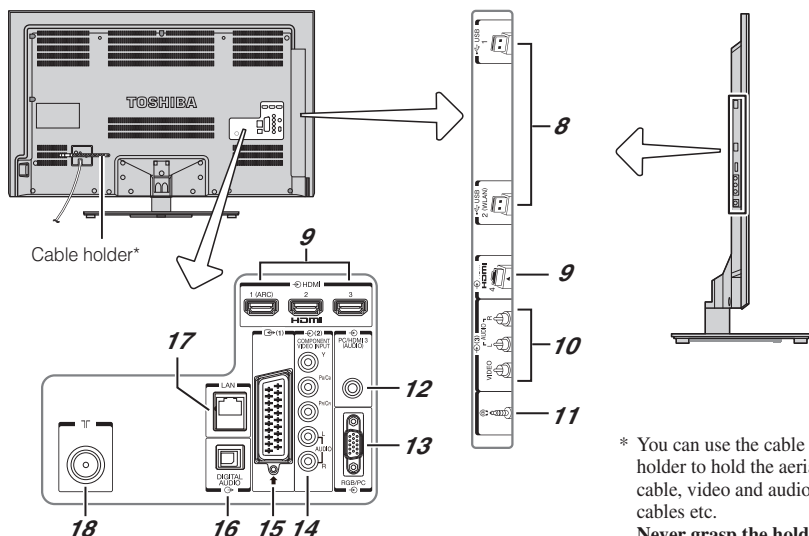
Cable holder*

* You can use the cable holder to hold the aerial cable, video and audio cables etc.
Never grasp the holder when moving the TV.

8 **USB Ports 1-2** — For use when inserting a USB device (photo, movies, music) (☞ page 59).

   Note:
   Port 2: When using TOSHIBA Dual Band WLAN Adaptor

9 ⊖ **HDMI 1 - 4 (input terminal)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device (☞ page 43).

   ⊖ **HDMI 1 (ARC) (input terminal) only** — For use when connecting to a HDMI audio system (☞ page 43).

   ⊖ **HDMI 3 (input terminal) only** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from a DVI device (☞ pages 43, 45).

10 ⊖ **(3) (video 3 input terminal)** — Standard video and standard stereo audio input (☞ page 42).

11 ⊙ **(Headphone jack)** — For use with headphones (☞ page 29).

12 ⊖ **PC/HDMI 3 (AUDIO) (input terminal)** — PC audio input terminal is shared with the HDMI 3 analogue audio input terminal, and its use can be configured in the Preferences menu (☞ pages 43, 45).

13 ⊖ **RGB/PC (input terminal)** — For use when connecting a personal computer (PC) (☞ page 45).

14 ⊖ **(2) (video 2 input terminals)** — High-definition component video and standard stereo audio inputs (☞ page 41).

15 ⊡ **(1) (video 1 input terminal)** — Standard (composite) video and standard (analogue) stereo audio input (☞ page 41).

   Note:
   Use for the Scart/Phono jacks adaptor (supplied).

16 ⊙ **DIGITAL AUDIO (OPTICAL) (output terminal)** — For use when connecting an amplifier with optical type digital audio input (☞ pages 41, 42).

17 **LAN port** — For use when connecting to Network function (☞ page 49).

18 ⊤ **(aerial input terminal)** — Aerial signal input (☞ page 8).

10

Learning about the remote control

Location of controls

Power on/Standby

Input source selection

Picture Size

Picture Mode

Number buttons (0-9)

This button is not available for this TV

These buttons adjust the volume level

To access the Quick Menu

To access Media Player Menu

To access "TOSHIBA PLACES" Top Page

• On-screen Menus
• To confirm your selection
• To page up, down, left or right (∧ , ∨ , ≪ , ≫)
• To return to the previous menu

Stereo/Bilingual selection

To select TV mode

Subtitle on/off

To return to the previous programme

• To display on-screen information
• Initial/index function for Teletext

This button turns the sound off/on

Position up/down

Teletext on/Superimpose Teletext/off

To display the channel list

• To display digital on-screen Programme Guide
• To menu up, down, left or right
• To exit menu

Media Player function:
Press ■ to STOP
Press ► to PLAY
Press ‖/‖► to PAUSE
Press I◄◄ to SKIP BACK
Press ◄◄ to REVERSE
Press ►► to FORWARD
Press ►►I to SKIP FORWARD

Text and interactive control buttons (Four coloured buttons: Red, Green, Yellow, Blue)

Teletext function:
TEXT Teletext on/Superimpose Teletext/off

To reveal concealed text

To hold a specific page

To enlarge the teletext display size

To select a page while viewing a normal picture

To select the time display - analogue -

Picture still

TOSHIBA
CT-90369

* For REGZA-LINK remote control functions, please refer to "Location of controls for REGZA-LINK mode" (☞ page 12).

Location of controls for REGZA-LINK

To select input from external source

Picture size selection

To select audio mode

To change volume of AV amplifier

To operate menu

To exit menu

To return to previous menu accessed

Press ■ to STOP
Press ▶ to PLAY
Press ❚❚/❚❚▶ to PAUSE
Press ❙◀◀ to SKIP BACK
Press ◀◀ to REVERSE
Press ▶▶ to FORWARD
Press ▶▶❙ to SKIP FORWARD

TOSHIBA
CT-90369
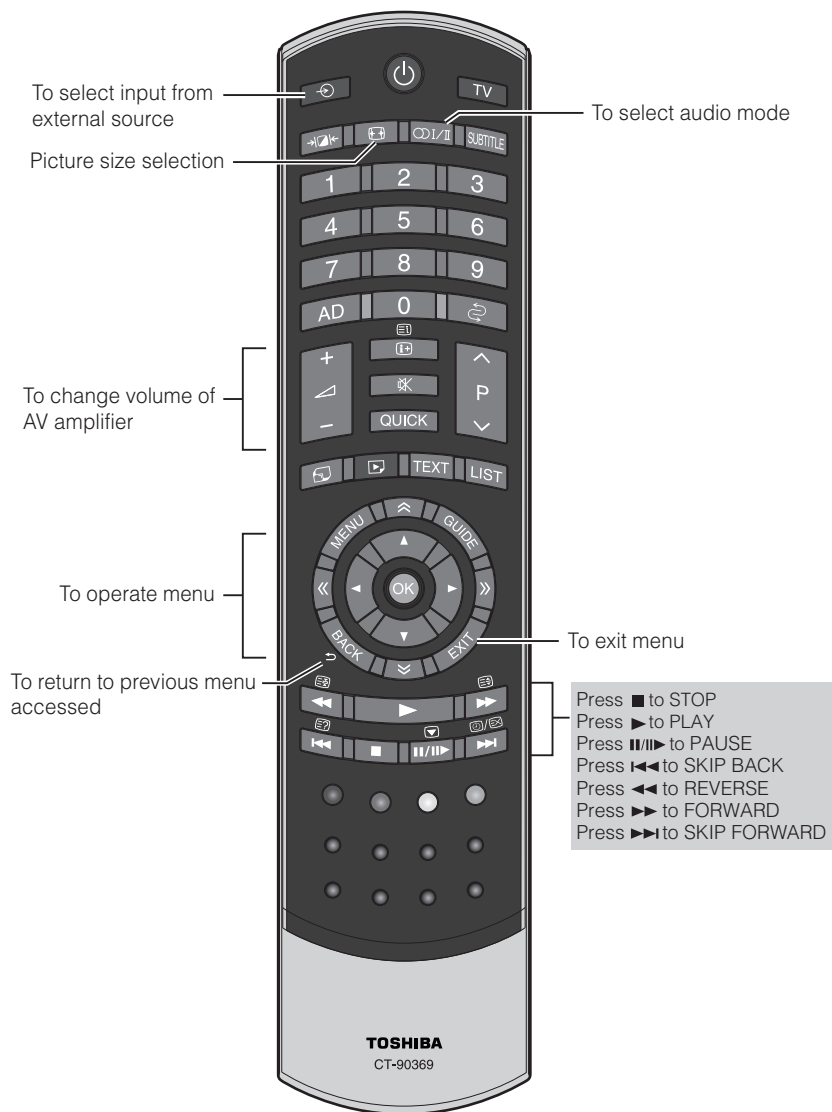
Note:
These functions are dependent on the connected device. Not all of the remote control buttons may be available. Please refer to the owner's manuals of the connected devices.

Turning the TV on

Switching on the TV

Connect the power cord to a wall outlet. The ⏻/| power indicator light should be red (standby mode).

1 Press ⏻ on the remote control or ⏻/| on the TV front panel. The ⏻/| power indicator lights in green.

Note:
If you watch black and white programmes when the Colour System mode is set to Auto, colour noise may appear on the screen. In this case select the appropriate Colour System (☞ page 17).

Switching off the TV

1 Press ⏻ on the remote control or ⏻/| on the TV front panel to switch to the standby mode.

Notes:
- *The TV is not fully disconnected from the main supply, as minute current is consumed even when ⏻/| is turned off. When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet.*
- *If power is cut off while you are viewing the TV, the Last Mode Memory function turns on the TV automatically when power is applied again. If power is going to be off for a long time and you are going to be away from your TV, unplug the power cord to prevent the TV from turning on in your absence.*

Tuning the TV for the first time

Before switching on the TV, put your decoder and media recorder to standby, if they are connected, and ensure that the aerial is connected. To setup the TV, use the buttons on the remote control as detailed on page 11.

1 Press the ⏻ button. The **Menu Language** screen will appear. This screen will appear the first time that the TV is switched on and each time "**Reset TV**" (☞ page 31) is executed.

> **Menu Language**
> ◀   **English**   ▶

2 Press ◁ or ▷ to select the menu language **English** or **Français**.

3 Press **OK**, to display the **Primary/Secondary Language** and **Primary/Secondary Audio Language** item. Press ▽, △, ◁ or ▷ to set the selectings as desired.

4 Press **OK**, to display the **Time Zone** menu and press ◁ or ▷ to select the item you want to set. (New South Wales, Northern Territory, Queensland, South Australia, Tasmania, Victoria, Western Australia or Australian Capital Territory)

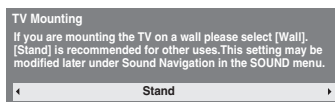**5** Press **OK**, to display the **Location** menu (☞ page 19).

Press ◁ or ▷ to select **Home** or **Store**. For normal home use, select **Home**.

> **Location**
> To use the TV for displaying in a store showroom, please select [Store]. [Home] mode is recommended for normal use.
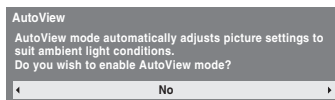> ◀   **Home**   ▶

Store mode:
- A confirmation menu will appear.
- **AutoView** menu is not available.

6 Press **OK**, to display the **TV Mounting** menu, press ◁ or ▷ to select **Stand** or **Wall**.

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

7 Press **OK**, to display the **AutoView** menu (☞ page 23).
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?
> ◀   **No**   ▶

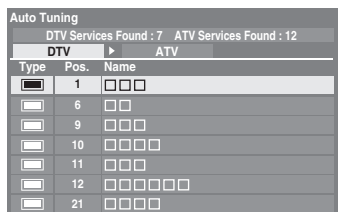**8** Press **OK** to display the **Auto Tuning** startup screen. Use ◁ or ▷ to select **DTV and ATV**, **DTV** or **ATV**. Press ▽ to select **Bandwidth**, press ◁ or ▷ to select **7MHz**, **8MHz** or **7MHz and 8MHz** (☞ page 69). Then, press ▽ to select **Start Scan** and press **OK**. You must allow the TV to complete the search.

> **Auto Tuning**
> | | Progress | Found |
> | --- | --- | --- |
> | DTV Tune | 3% | 2 |
> | ATV Tune | Waiting... | |
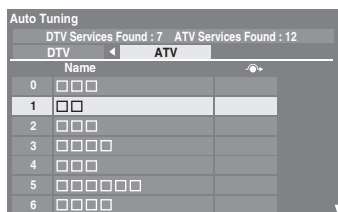> | | Channel: 10 | |
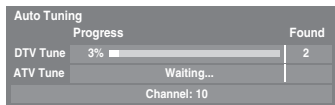
When the search is complete, the TV will automatically select position one.

The **Auto Tuning** results screen will display the services that are found.

```
Auto Tuning
    DTV Services Found : 7   ATV Services Found : 12
        DTV        ▶        ATV
Type    Pos.   Name
  ▬       1    □□□
  ▬       6    □□
  ▬       9    □□□
  ▬      10    □□□□
  ▬      11    □□□
  ▬      12    □□□□□□
  ▬      21    □□□□
```

9 Press ◁ or ▷ to view the **DTV** (digital channel) or **ATV** (analogue channel) lists.

```
Auto Tuning
    DTV Services Found : 7   ATV Services Found : 12
        DTV        ◀        ATV
             Name                      ◉
  0    □□□
  1    □□
  2    □□□
  3    □□□□
  4    □□□
  5    □□□□□□
  6    □□□□                            ▼
```

10 Select ▽ or △ to move through the list to select a channel and press **OK** to view.
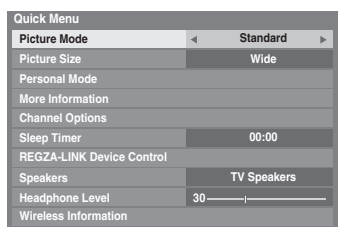
Note:
*The **Quick Setup** menu can also be displayed at any time from the **System Setup** menu.*

Using the Quick Menu

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

Press **QUICK** to display the **Quick Menu** and use ▽ or △ to select the option.

```
Quick Menu
Picture Mode              ◀   Standard   ▶
Picture Size                    Wide
Personal Mode
More Information
Channel Options
Sleep Timer                     00:00
REGZA-LINK Device Control
Speakers                     TV Speakers
Headphone Level            30 ──┼──────
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 programme or pictures from the external input	Picture Mode	☞ page 23.
	Picture Size	☞ page 22.
	Personal Mode	☞ page 48.
	More Information	☞ page 20.
	Channel Options	☞ page 38.
	Sleep Timer	☞ page 30.
	REGZA-LINK Device Control	☞ page 34.
	Speakers	☞ page 33.
	Headphone Level	☞ page 29.
	Wireless Information	☞ page 52.
When using EPG	Genre Colour	☞ page 37.
	EPG Update/Cancel EPG Update	☞ page 37.
When using Media Player (Photo Multi View)	Sort	☞ page 61.
	Interval Time	☞ page 60.
	Repeat	☞ page 60.
	Shuffle	☞ page 60.
	Device Information	☞ page 61.
	Wireless Information	☞ page 52.
When using Media Player (Photo Single View, Slide Show)	Picture	☞ page 24.
	Picture Size	☞ page 22.
	Sound	☞ page 27.
	Personal Mode	☞ page 48.
	Interval Time	☞ page 60.
	Repeat	☞ page 60.
	Shuffle	☞ page 60.
	Background Music	☞ page 60.
	Sleep Timer	☞ page 30.
	Wireless Information	☞ page 52.
When using Media Player (Photo Play DMR)	Picture	☞ page 24.
	Picture Size	☞ page 22.
	Personal Mode	☞ page 48.
	Sleep Timer	☞ page 30.
	Wireless Information	☞ page 52.
When using Media Player (Movie List)	Sort	☞ page 62.
	Repeat	☞ page 62.
	Device Information	☞ page 62.
	Wireless Information	☞ page 52.
When using Media Player (Movie Play)	Picture	☞ page 24.
	Picture Size	☞ page 22.
	Sound	☞ page 27.
	Personal Mode	☞ page 48.
	Repeat	☞ page 62.
	Sleep Timer	☞ page 30.
	Speakers	☞ page 33.
	Headphone Level	☞ page 29.
	Wireless Information	☞ page 52.

Mode	Quick menu item	Description
When using Media Player (Movie Play DMR)	Picture	☞ page 24.
	Picture Size	☞ page 22.
	Sound	☞ page 27.
	Personal Mode	☞ page 48.
	Sleep Timer	☞ page 30.
	Speakers	☞ page 33.
	Headphone Level	☞ page 29.
	Wireless Information	☞ page 52.
When using Media Player (Music List)	Sound	☞ page 27.
	Personal Mode	☞ page 48.
	Sort	☞ page 64.
	Repeat	☞ page 63.
	Shuffle	☞ page 64.
	Speakers	☞ page 33.
	Headphone Level	☞ page 29.
	Device Information	☞ page 64.
	Wireless Information	☞ page 52.
When using Media Player (Music Fullscreen Play)	Sound	☞ page 27.
	Personal Mode	☞ page 48.
	Repeat	☞ page 63.
	Shuffle	☞ page 64.
	Sleep Timer	☞ page 30.
	Speakers	☞ page 33.
	Headphone Level	☞ page 29.
	Wireless Information	☞ page 52.
When using Media Player (Music Play DMR)	Sound	☞ page 27.
	Personal Mode	☞ page 48.
	Sleep Timer	☞ page 30.
	Speakers	☞ page 33.
	Headphone Level	☞ page 29.
	Wireless Information	☞ page 52.
When using Photo Frame	Picture	☞ page 24.
	Picture Size	☞ page 22.
	Personal Mode	☞ page 48.
When using YouTube	Picture	☞ page 24.
	Sound	☞ page 27.
	Personal Mode	☞ page 48.
	Sleep Timer	☞ page 30.
	Speakers	☞ page 33.
	Headphone Level	☞ page 29.
	Wireless Information	☞ page 52.

MENU structure

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

1st Layer	2nd Layer	3rd Layer
Press **MENU**.	Press ◁or▷/△. Press ◁ or ▷.	Press **OK**. Press ▽, △, ◁ or ▷.

TV Programmes

Guide → Jump to Programme Guide (EPG)
Genre Search → Jump to Genre Search
Programme Timers → Jump to Programme Timers

Media Player

Photo → Jump to Photo menu
Movie → Jump to Movie menu
Music → Jump to Music menu
Media Player Setup → Media Player Setup Menu

Toshiba Places

→ Jump to Toshiba Places

Function

Photo Frame → Jump to Photo Frame
On Timer → On Timer Menu
Sleep Timer → Sleep Timer Menu

Setup

Picture → Picture Menu
Sound → Sound Menu
Preferences → Preference Menu
System Setup → System Setup Menu

16

Programming channels into the TV's channel memory

Auto Tuning

Auto Tuning will completely re-tune the TV 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, e.g. favourites and locked channels, will be lost.

Note:
As new services are broadcast, it will be necessary to retune the TV in order to view them.

1 From the **System Setup** menu, press ▽ or △ to select **Auto Tuning**.

System Setup	
Menu Language	English
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Quick Setup	
Location	Auto
Software Upgrade	▼
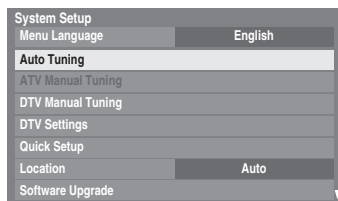
2 Press **OK**.

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

Auto Tuning	
Previous settings will be lost! EXIT for no change.	
Tuning Mode	◄ DTV and ATV ►
Bandwidth	7MHz
Start Scan	
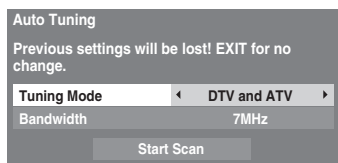
3 Use ◁ or ▷ to select **DTV and ATV**, **DTV** or **ATV**. Then, press ▽ to select **Start Scan** and press **OK** to continue with the **Auto Tuning**.

Press ▽ to select **Bandwidth**, press ◁ or ▷ to select **7MHz, 8MHz** or **7MHz and 8MHz** (☞ page 69). The TV will start to search for all available DTV and/ or ATV services.

You must allow the TV to complete the search. When the search is complete, the **Auto Tuning** screen will display the services found.

4 Use ▽ or △ to move through the list to select a channel and press **OK** to view.

ATV Manual Tuning - analogue -

Use the Manual Tuning operation if desired channels cannot be preset by Auto Tuning or if you would like to preset channels to specific position numbers one by one.

1 From the **System Setup** menu, press ▽ or △ to select **ATV Manual Tuning**.

2 Press **OK** to display the **ATV Manual Tuning** menu. Press △ or ▽ to select the position you want to set.

ATV Manual Tuning		
Pos.	Channel	Label
1	C2	►
2	C4	
3	C5	
4	C7	
5	C9	
6	C12	
7	C23	
8	C27	▾

3 Press **OK** to display the settings menu. Press ◁ or ▷ to select an item and press △ or ▽ to set the item as shown below.

ATV Manual Tuning
Position
1 B/G A ─•→ C 2 🔍 0

A | C | E | G | I
   B   D   F   H
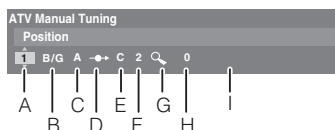
A. Position selection

B. System (Sound)
B/G , **D/K**, **I** or **L**

C. Colour System
A: Automatic, **P**: PAL , **S**: SECAM, **N4**: NTSC 4.43 (MHz), **N3**: NTSC 3.58 (MHz)
If the colour of a certain channel is abnormal, the automatic colour system selection (A) may have malfunctioned or the sound system selection is wrong. In this case, select another colour and/or sound system.

D. Position skip selection
Press ▽ or △ to turn the position skip option on "─•→" or off "─→".The position will then be skipped when you select channels with **P∧** or **P∨**. The "─•→" mark will appear when you use the **Number** buttons on the remote control.

E. Signal Class selection (☞ page 71)
Press ▽ or △ to select **C** or **S**.
C: 2 ch - 12 ch, 21 ch - 69 ch
S: 1 ch - 41 ch, 51 ch - 55 ch

F. Channel selection
Press ▽ or △ until your desired channel is displayed (☞ page 71).

G. Search operation
   Press △ to search up the band or ▽ to search down the band.
   Press ▽ or △ repeatedly until your desired channel is displayed.
   NEVER PRESS ANY OTHER BUTTONS WHILE THE SET IS TUNING.

H. Manual Fine Tuning
   Press ▽ or △ until better picture and sound are obtained.

I. Label
   Station labels appear beside the position display each time you turn on the TV, select a channel, or press (i+).
   To change or create station labels:
   1) Press ▽ or △ repeatedly to select a character for the first space, then press ▷.

┌→A-↔z↔(↔)↔*↔+↔,↔-↔.↔/↔0-↔9↔u"←┐

*(blank space)

   2) Repeat step 1) to enter the rest of the characters. If you would like a blank space in the label name, you must choose a blank space from the list of characters.

   Press **OK** to store your settings.

Sorting positions - analogue -

ATV channels may be moved and stored to the position of your choice.

1 From the **SETUP** menu, press ▽ or △ to select **ATV Manual Tuning**.

2 With the list of channels now showing, press ▽ or △ to select the channel you want to move and press ▷.

ATV Manual Tuning		
Pos.	Channel	Label
1	C2	ABCD
2	C4	EFGH
3	C5	IJKL
4	C7	MNOP
5	C9	
6	C12	
7	C23	
8	C27	

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

4 Press ◁ to store your move.
   Repeat as necessary and press **EXIT**.

DTV Manual Tuning - digital -

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

1 From the **System Setup** menu, press ▽ or △ to select **DTV Manual Tuning** and press **OK**.

DTV Manual Tuning			
Signal Strength	WEAK	AVERAGE	STRONG
Quality	GOOD		
Channel	◀	22	▶
Frequency		XXX.X MHz	
Bandwidth		7MHz	
Start Scan			

2 Enter the multiplex number using the number buttons or press ◁ or ▷ to adjust the number up or down.

   Press ▽ to select **Bandwidth**, press ◁ or ▷ to select **7MHz**, **8MHz** or **7MHz and 8MHz** (☞ page 69).

   Then press ▽ to select **Start Scan** and press **OK**. The TV will start to search for that multiplex.

DTV Manual Tuning			
0 New Channels - Total 6			
New	Pos.	Name	Type
	2	☐☐☐	▭
	20	☐☐☐☐	▭
	21	☐☐☐☐☐	▭
	22	☐☐☐	▭
	23	☐☐☐	▭

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

3 Repeat as necessary. Press **EXIT** to finish.

Sorting Channels - digital -

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

1 From the **System Setup** menu, press ▽ or △ to select **DTV Settings** and press **OK**.

2 Press ▽ or △ to select **Channels** and press **OK**.

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

3 For your convenience, you can jump to specific places in the list by one of the following methods.
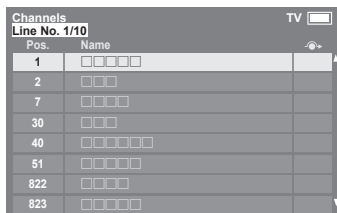
Line Number Jump — Press the **Number** button to input the line number you want to select and press **OK**.

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

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

Renumber — Press the **RED** button to renumber for the selected channel. Edit the channel number using the **Number** buttons and press **OK**.

Move — Press the **GREEN** button to activate the **Move** feature. Press the ▽ or △ 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, select ▽ or △ to place the focus at the position to which you wish to move the channels. The channels will be inserted above the selected channels. Press the **GREEN** button to execute the move.
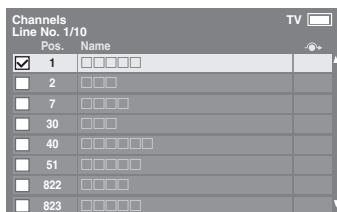
Sort — Press the **YELLOW** button. A confirmation window will appear. Press ◁ or ▷ to select **Yes** and press **OK**.
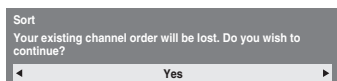
The **Sorting Type** selection window will appear.

Press ◁ or ▷ to set the sorting rule.

Number mode:
Position No. order (numerical sequence)

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

Press ▽ to select **Sort** and press **OK**.

Setting the Standby Channel Update - digital -

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.

1 From the **System Setup** menu select **DTV Settings** and press **OK**.

2 Press ▽ or △ to select **Standby Channel Update** and press ◁ or ▷ to select **On**.

Selecting Dynamic Scan - digital -

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?**". Please follow the message. If you do not wish for the TV to detect changes and prompt you to rescan, you should set this feature to **Off**.

1 From the **DTV Settings** menu, press ▽ or △ to select **Dynamic Scan**.

2 Press ◁ or ▷ to select **On** or **Off**.

Setting the Location

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

1 From the **System Setup** menu, press ▽ or △ until **Location** is selected.

2 Press ◁ or ▷ to select **Home** or **Store**.

Analogue switch-off

This is a **digital** TV 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 Standby Channel Update disruption.

Watching TV programmes

Programme Selection

Digital programmes

After you have tuned the TV, you have several ways to navigate through all programmes:

• Press the **Number** buttons. You may omit the leading zeroes, which will be appended automatically.

• Press **P⌃** / **P⌄** to view the previous or next position. The channels are arranged in ascending order according to the channel number.

• Press **List** to display the **Channel List** and press ▽ or △ to select a channel and press **OK** to view the channel (☞ page 31).

Analogue programmes

1 Enter the desired position number using the **Number** buttons on the remote control.
For positions below 10, use 0 and the required number e.g., for position 1.

2 You can also change the position by using **P⌃** or **P⌄**.

Note:
Changing positions between different format channels takes several seconds.

Switching between positions

You can switch positions without entering an actual position number each time.

1 Select the first position you want to view.

2 Select the second position with the **Number** buttons (0-9).

3 Press ⮂. The previous position will be displayed.

Each time you press ⮂, the TV will switch back and forth between the two positions.

Selecting the menu language

Choose from 2 different languages (English or Français) for the On-Screen-Display.

1 From the **System Setup** menu, press ▽ or △ to select **Menu Language**.

2 Press ◁ or ▷ to select the desired language.

System Setup		
Menu Language	◄ English	►
Auto Tuning		
ATV Manual Tuning		
DTV Manual Tuning		
DTV Settings		
Quick Setup		
Location	Auto	
Software Upgrade		▼
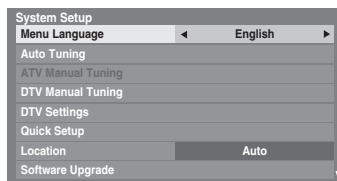
Displaying the on-screen information
- analogue -

1 Press ⓘ⁺ to display the following on-screen information.

4 ABCD 　 ⬭ Mono 　 ◉►

The information will disappear in 6 seconds.

• Position or external input mode selected
• Label (if set)
• Mono/Stereo/Dual audio status
• Position skip on/off information

2 To close the display instantly, press ⓘ⁺ again.

On-screen information **- digital -**

When viewing in Digital TV mode, the on-screen information will give the details of the programme currently being viewed.

1 Press ⓘ⁺ to display the on-screen information.

▭ 7　7 Digital 　　 ◉► 🔒 11:20 Mon, 25 Apr
⬭ English 　　 (Personal Name)
Now ☐☐☐☐☐ 　 11:00 - 12:00
HD 16:9 ▦ 🔊 News 31 min left
Comprehensive coverage of local, national and international news with analysis of the key stories of the day and a strong focus on health, social and environmental issues.
Next ⬙☐☐☐ 　 12:00 - 12:59
⬗ Change 　 OK Schedule
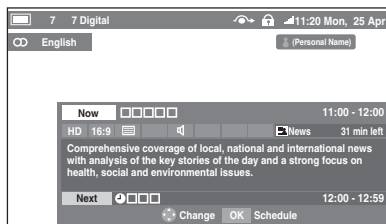
The information will disappear in 60 seconds. On-screen information contains the following information:

• Current Channel Number
• Channel Name
• Skip (if set) (◉►)
• Lock (if set) (🔒)
• Personal Name (👤)
• Now and Next Programme Names
• Current date and time
• Video format of the current programme (SD/HD)
• Teletext availability (▦)
• Subtitle availability (⬚)

• Parental rating: G, PG, M, MA, AV, R, etc.
• Dolby® Digital audio track availability (indicated by **Dolby D**)
• Genre (▣)
• Reminder Timer (if set) (✓)

2 Press ▽ or △ to select the "**Now**" or "**Next**" information guide.

3 To set a reminder for the Next programme, select "**Next**" and press **OK**. The **Set Timer** screen will appear and press **OK**.

Set Timer	10:50 Mon, 25 Apr
Mon, 25 Apr 11:00	
▭ ▭▭▭▭▭	
Seven Wonder4	
Channel	◄ ▭▭▭▭ ►
Date	**Mon, 25 Apr 2011**
Start Time	**10:49**
Repeat	**Once**
Set Timer	Delete Timer
⊕ Edit	
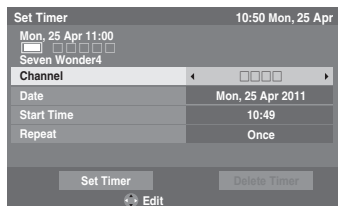
4 The details of the programme will have been added to the timer. Select **Set Timer** and press **OK** to save. To indicate that a timer has been set, a check mark will be displayed in the **Next** field of the information screen (✓).

Note:
The Programme Timer LED indicator (☞ page 9) will appear orange when a timer is set.

Displaying the Clock Display

You will always see a time display on screen when using this feature.

1 From the **Preferences** menu, press ▽ or △ until **Clock Display** is selected.

2 Press ◁ or ▷ to select **On** or **Off**.

Note:
This feature will not be available until a digital channel has been tuned.

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.

1 From the **Preferences** menu, press ▽ or △ until **HDMI Information Display** is selected.

2 Press ◁ or ▷ to select **On** or **Off**.

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**".

• Most of the picture/sound controls and functions are available in both digital and analogue modes. However, features not available will be greyed out.

Picture adjustment

Selecting the picture size

1 Press ⊞ to display the picture size list and press ▽ or △ to select the appropriate picture size (or press ⊞ repeatedly to select the desired picture size directly).

AV format

Picture Size
Native
Wide
4:3
Super Live
Cinema
Subtitle
14:9

PC format

Picture Size
Dot by Dot
PC Wide
PC Normal
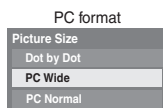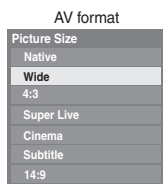
2 Press **OK**.

Wide
Use this setting when watching a wide-screen DVD, wide-screen video tape or a 16:9 broadcast (when available). Due to the range of wide-screen formats (16:9, 14:9, 20:9 etc.), you may see bars on the top and bottom of the screen.
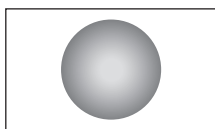
4:3
Use this setting to view a true 4:3 broadcast.
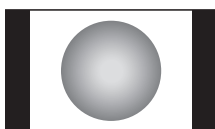
Super Live
This setting will enlarge a 4:3 image to fit the screen by stretching the image horizontally and vertically, holding better proportions at the centre of the image. Some distortion may occur.
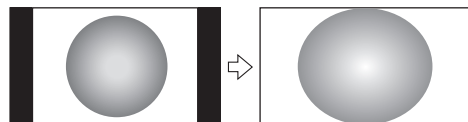
Cinema
When watching "all sides panel format" films/video tapes, this setting will eliminate or reduce the black bars on all sides of the screen by zooming in and selecting the image without distortion.
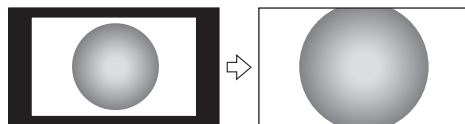
Subtitle
When subtitles are included on a letterbox format broadcast, this setting will raise the picture so that most of the text is displayed.
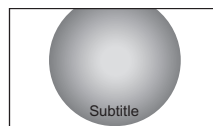
14:9
Use this setting when watching a 14:9 broadcast.
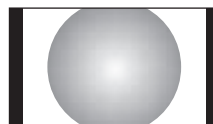
Native
This setting will display the image correctly without distortion or picture clipping. However, the playback movie (Divx file) from the USB device is with over scan
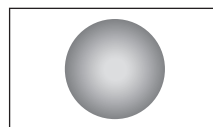
PC Normal
Use this setting for a PC connected via HDMI or RGB/ PC terminal when receiving PC signal format. This setting will display the image correctly without distortion or picture clipping.
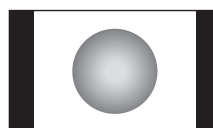
PC Wide

Use this setting for a PC connected via HDMI or RGB/PC terminal when receiving PC signal format. This setting will display the image without picture clipping.
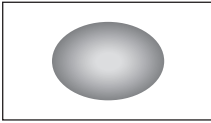
Dot by Dot

"Dot by Dot" is a non-scaling display. Depending on the input signal format, the picture is displayed with side panels and/or bars at the top and bottom (i.e. VGA input source).
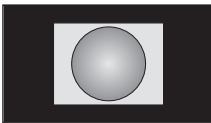
Notes:
* *Using the special functions to change the size of the displayed image (e.g. changing the height/width ratio) for the purpose of public display or commercial gain may infringe on copyright laws.*
* *If the aspect ratio of the selected format is different from the one of the TV transmission or video programme, it can cause a difference in display. Change to the correct aspect ratio picture size to fix this.*
* *When using a PC connected via HDMI or RGB/PC terminal, moving image quality may deteriorate.*

Using the picture still feature

* Press ⏷ to freeze the picture.

Even if an image is frozen on the TV screen, the pictures are still running on the input source. Audio continues to be output as well.
To return to a moving picture, press ⏷ again.

(Moving) ⟺ (Still)
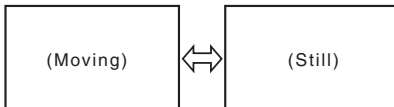
Note:
If you use this function except for the purpose of your private viewing and listening, it may infringe upon copyrights protected by copyright laws.

Adjusting the Picture Position - analogue -

Adjustment to the position of the picture may be made to suit your viewing preferences.

1 From the **Display Settings** in the **Preferences** menu, press ▽ or △ to select **Picture Position**.

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

2 Press **OK** and press ▽ or △ to select the item you want to adjust.

Picture Position	
Horizontal Position	0
Vertical Position	0
Reset	

3 Press ◁ or ▷ to adjust the settings as desired.
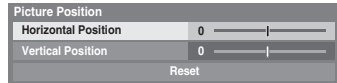
Horizontal Position	0

Notes:
* *When the picture size is in **Wide** or **4:3** mode, only the Horizontal Position can be adjusted.*
* *When the picture size is in **Native**, **PC Wide**, **PC Normal** or **Dot by Dot** mode, this function will not be available.*

Resetting the Picture Position

This function resets your picture position settings to the factory settings.

1 From the **Picture Position** menu, press ▽ or △ to select **Reset**.

2 Press **OK**.

Activating the Picture Mode

This TV offers the choice of personalising the picture style. Press ⊣◰⊢ to view the different modes available.

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

Notes:
* *The **Picture Mode** menu can also be displayed at any time from the **Picture** menu.*
* *** 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.*
* *The picture mode you select affects the current input only. You can select a different picture mode for each input.*

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• *To set another **Picture Mode**, use for the **Picture** menu.*

Activating the picture preferences

You can customise current **Picture Mode** settings as desired. For example, while selecting "**Dynamic**," if you change the following items, such as **Backlight**, **Contrast**, **Brightness**, **Colour**, **Tint**, **Sharpness** and the **Advanced Picture Settings** items, your new setting are saved for "**Dynamic**" **Picture Mode**.

1 From the **Picture** menu, press ▽ or △ to select either **Backlight**, **Contrast**, **Brightness**, **Colour**, **Tint** or **Sharpness**.

2 Press ◁ or ▷ to adjust the settings.

Note:
Contrast *is not available when **Picture Mode** is set to **AutoView**.*

Resetting the Picture Mode

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

1 From the **Picture** menu, press ▽ or △ to select **Reset** and press **OK**.

2 A confirmation message will appear. Press ◁ or ▷ to select **Yes** and press **OK**.

Adjusting Black/White Level

Black/White Level improves the contrast of the picture.

1 From the **Picture** menu, press ▽ or △ until **Advanced Picture Settings** is selected.

Picture	
Reset	▲
Backlight	70
Contrast	100
Brightness	0
Colour	0
Tint	0
Sharpness	0
Advanced Picture Settings	▼
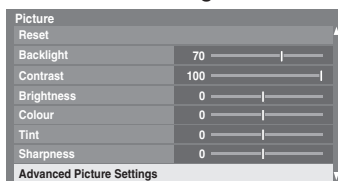
2 Press **OK** and press ▽ or △ to select **Black/White Level**.

Advanced Picture Settings	
3D Colour Management	Off
Base Colour Adjustment	
Colour Temperature	
Auto Brightness Sensor Settings	
Active Backlight Control	Middle
Black/White Level	7
Static Gamma	0
Noise Reduction	▼
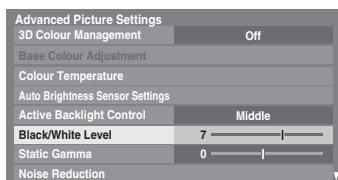
3 Press ◁ or ▷ to adjust the settings as required.

Using ClearFrame 100Hz

This function eliminates motion blur without adding flicker or reducing image brightness and improves the viewing quality of a motion picture.

1 From the **Advanced Picture Settings** menu, press ▽ or △ until **ClearFrame 100Hz** is selected.

2 Press ◁ or ▷ to select **Smooth**, **Standard** or **Off**.

Adjusting the Colour Temperature

Colour Temperature increases the 'warmth' or 'coolness' of the picture by increasing the red or blue tint.

1 From the **Advanced Picture Settings** menu, press ▽ or △ to select **Colour Temperature**.

2 Press ◁ or ▷ to adjust the settings as desired (0 (warm) - 10 (cool)).

Note:
*If **Picture Mode** is set to **AutoView**, the range will be -5 to +5.*

Adjusting the Auto Brightness Sensor

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

1 From the **Advanced Picture Settings** menu, press ▽ to select **Auto Brightness Sensor Settings** and press **OK**.

2 Press ◁ or ▷ to select **On** and press **OK**.

Auto Brightness Sensor Settings		
Auto Brightness Sensor	◄ On	►
Backlight Adjustment Pro		
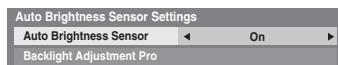
3 Press ▽ to select **Backlight Adjustment Pro** and press **OK**.

4 The **Backlight Adjustment Pro** window will appear. Press **OK** again to display the adjustment window.

5 Press ◁ or ▷ to select a point and press ▽ or △ to adjust the level.

Backlight Adjustment Pro — Backlight Control Level 48
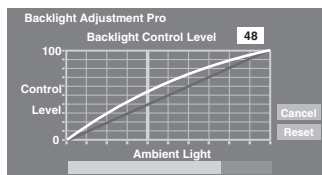
6 Press **OK** to confirm the adjustment.

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

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

Selecting Active Backlight Control

When **Active Backlight Control** is activated, it will automatically optimise the backlighting levels for dark scenes.

1 From the **Advanced Picture Settings** menu, press ▽ or △ to select **Active Backlight Control**.

2 Press ◁ or ▷ to select **On** or **Off**.

Adjusting 3D Colour Management

You can adjust picture colour quality by selecting from 6 base colour adjustments : **Red**, **Green**, **Blue**, **Yellow**, **Magenta** and **Cyan**.

1 From the **Advanced Picture Settings** menu, press ▽ or △ to select **3D Colour Management** and press ◁ or ▷ to select **On**.

3D Colour Management	◁	On	▷

2 Press ▽ or △ to select **Base Colour Adjustment**.

3 Press **OK** and press ▽ or △ to select the item you want to adjust.

Base Colour Adjustment				
	Hue	Saturation	Brightness	
Red	0	0	0	▷
Green	0	0	0	
Blue	0	0	0	
Yellow	0	0	0	
Magenta	0	0	0	
Cyan	0	0	0	
Reset				
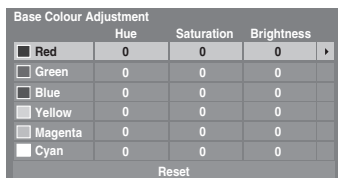
4 Press ▷ and press ▽ or △ to select **Hue**, **Saturation** or **Brightness**.

	Hue	Saturation	Brightness
Red	0	0	0
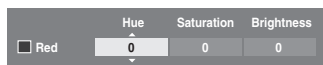
5 Press ▽ or △ to adjust the settings as required.

Note:
If you set 3D Colour Management to Off, Base Colour Adjustment will not be available.

Resetting Base Colour Adjustment

The reset function returns base colour adjustment to the factory settings.

1 From the **Base Colour Adjustment** menu, press ▽ or △ to select **Reset**.

2 Press **OK**.

Activating MPEG NR (Noise Reduction)

If the incoming MPEG signal exhibits noise (is grainy), depending on the compression and conversion, the noise may be reduced when using this function.

1 From the **Advanced Picture Settings** menu, press ▽ or △ to select **Noise Reduction** and press **OK**.

Noise Reduction			
MPEG NR	◁	Low	▷
DNR		Auto	

2 Press ◁ or ▷ to select **Off**, **Low**, **Middle** or **High**.

Activating DNR (Digital Noise Reduction)

If the incoming signal is weak and the picture is blurry, the picture may be improved when using this function.

1 From the **Noise Reduction** menu, press ▽ or △ to select **DNR**.

2 Press ◁ or ▷ to select **Auto**, **Off**, **Low**, **Middle** or **High**.

Adjusting the Static Gamma

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

1 From the **Advanced Picture Settings** menu, press ▽ or △ to select **Static Gamma**.

2 Press ◁ or ▷ adjust the level.

Adjusting Resolution+

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

1 From the **Advanced Picture Settings** menu, press ▽ or △ until **Resolution+** is selected and press **OK**.

2 In the **Resolution+** field, select **Auto**.

Resolution+			
Resolution+	◁	Auto	▷
Level		3	

3 Press ▽ to select **Level** and press ◁ or ▷ to adjust the level.

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

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**.

1 From the **Advanced Picture Settings** menu, press ▽ or △ to select **Motion Detection Range**.

2 Press ◁ or ▷ to select **Wide** or **Standard**.

Wide: double-scan effect for higher-speed motion picture

Standard: stabilized double-scan effect

Resetting the advanced picture settings

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

1 From the **Advanced Picture Settings** menu, press ▽ or △ until **Reset** is selected .

2 Press **OK**.

Expert Picture Settings

Test Pattern

When the **Test Pattern** is displayed on the screen, you can navigate to other **Picture** submenus without removing the image. This allows the test pattern to be used as a reference when making picture setting adjustments.

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

1 From the **Picture** menu, ▽ or △ until **Expert Picture Settings** is selected and press **OK**.

2 Press ▽ or △ to select **Test Pattern**.

3 Press ◁ or ▷ to select **On** or **Off**.

RGB Filter

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

1 From the **Expert Picture Settings** menu, press ▽ or △ to select **RGB Filter** and press **OK**.

2 Press ▽ or △ to select **Red**, **Green** or **Blue** and press ◁ or ▷ to select **On**.

3 Press ▽ or △ to select **Colour** or **Tint** and press ◁ or ▷ to adjust the settings as desired.

Note:
It is not possible to turn off all of these colours simultaneously.

Colour Decoding

If you watch DVDs with this TV, the Colour Decoding option may be set for ensuring the colourimetry reproduction.

1 From the **Expert Picture Settings** menu, press ▽ or △ to select **Colour Decoding**.

2 Press ◁ or ▷ to select **Auto**, **BT.709** or **BT.601**.

Note:
*Normally set this feature to **Auto** (**BT.601** and **BT.709** modes changes for the better colourimetry. When receiving a normal signal and selecting **BT.601** and **BT.709** modes, it may not be displayed of correct colourimetry on the screen).*

White Balance - Window Display

This feature displays a window pattern that allows you to adjust the White Balance using a measuring device.

1 From the **Expert Picture Settings** menu, press ▽ or △ to select **White Balance** and press **OK**.

2 Press ▽ or △ to select **Window Display** and press ◁ or ▷ to select **On** or **Off**.

White Balance - Setting Type

You can choose the method for adjusting the White Balance settings.

1 From the **Expert Picture Settings** menu, press ▽ or △ to select **White Balance** and press **OK**.

2 Press ▽ or △ to select **Setting Type** and press ◁ or ▷ to select **2P** or **10P**.

When 2P is selected:

1 Press ▽ to select **2P White Balance**.

2 Press ▽ or △ to select **Red-Offset**, **Green-Offset**, **Blue-Offset**, **Red-Gain**, **Green-Gain** or **Blue-Gain**.

3 Press ◁ or ▷ to adjust the settings as desired.

When 10P is selected:

1 Press ▽ to select **10P White Balance**.

2 Press ▽ or △ to select **IRE** (white level), **Red**, **Green** or **Blue**.

3 Press ◁ or ▷ to adjust the settings as desired.

Resetting the Expert Picture Settings

This feature resets your **Expert Picture Settings** to the factory settings.

1 From the **Expert Picture Settings** menu, press ▽ or △ to select **Reset** and press **OK**.

2 A confirmation screen appears. Select **Yes**, press **OK**.

Viewing the Control Visualization

This feature displays the brightness histogram and control curve of each scene.

1 From the **Picture** menu, press ▽ or △ until **Control Visualization** is selected and press **OK**. The histogram window will appear.
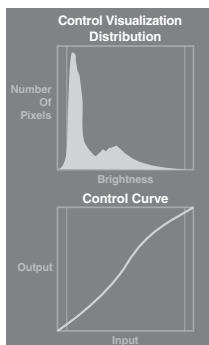
2 Press **BACK** to return to the previous menu.

Using Auto Format

When the TV receives a true HDMI signal picture and Auto Format is On, the picture will automatically be displayed in HDMI signal format, irrespective of the TV's previous setting. When in Digital TV mode, the display format will follow the broadcasted format.

1 From the **Preferences** menu, press ▽ or △ until **Display Settings** is select.

2 Press **OK** and press ▽ or △ to select **Auto Format**

3 Press ◁ or ▷ to select **On** or **Off**.

Sound adjustment

Selecting Dual 1 or Dual 2 mode

You can hear only Dual 1 or Dual 2 sound, when bilingual programmes are received.

1 From the **Sound** menu, press ▽or △ to select **Dual**.
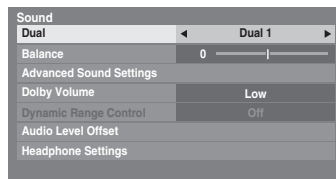
2 Press ◁ or ▷ to select **Dual 1** or **Dual 2**.

Note:
* *The **Dual** menu setting status is stored even when the TV is turned off.*

Stereo and Bilingual transmissions

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 ◯I∕Ⅱ to select **Stereo** or **Mono**.

Bilingual… Bilingual transmissions are rare. If they are transmitted, the word **Dual** will display. Choose the desired channel number, and if the word **Dual** appears, press ◯I∕Ⅱ to select **Dual 1**, **Dual 2**, **Mono** (NICAM) or **Dual 1** or **Dual 2** (German stereo/bilingual broadcast).

For DTV programmes

For stereo or dual mono broadcasts, press ◯I∕Ⅱ and use ◁ or ▷ to select settings.

Mode Display	Pressing ▷
◯ Stereo	Stereo → Left → Right
●◯ Dual mono	Dual 1 → Dual 2 → Dual
◯ Mono	—
⸬◯ Surround	—

Adjusting the sound Balance

1 From the **Sound** menu, press ▽ or △ to select the **Balance**.

2 Press ◁ or ▷ to adjust the settings as desired.

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Adjusting the Sound Navigation

You can customize the 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.

1 From the **Sound** menu, press ▽ or △ to select **Advanced Sound Settings** and press **OK**.

2 Press ▽ or △ to select **Sound Navigation** and press **OK**.

Advanced Sound Settings	
Sound Navigation	
Surround	Off
Voice Enhancement	On

3 Press ◁ or ▷ to select **Stand** or **Wall** depending on how your TV is installed and press the **RED** button.

4 Press ◁ or ▷ to select the frequency range you want to adjust from the equalizer window and press ▽ or △ to adjust the level.

Sound Navigation					
TV Mounting			Stand		
Equalizer					
+20					
0					Cancel
-20					Reset
100	330	1K	3.3K	10K	[Hz]
0	0	0	0	0	[Level]
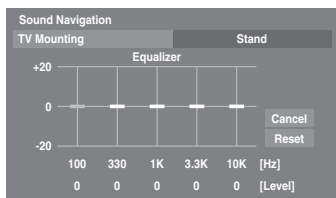
5 Repeat step 4 for other frequencies.

6 Press **EXIT** to confirm your adjustments

To cancel the selection or adjustment, select **Cancel** on the screen and press **OK**.

To revert selections and adjustments to the factory settings, select **Reset** on the screen and press **OK**.

Using the Advanced Sound Settings

Surround 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.

Voice Enhancement helps to emphasize dialogue. It will be easier to hear voices over other background audio.

1 From the **Advanced Sound Settings**, press ▽ or △ to select **Surround**.

2 Press ◁ or ▷ to select **Off**, **Spatial** or **Cinema**.

Voice Enhancement : To turn the vocal emphasis effect **On** or **Off**.

Using Dolby Volume

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

1 From the **Sound** menu, press ▽ or △ to select **Dolby Volume**.

2 Press ◁ or ▷ to select **Low**, **High** or **Off**.

Notes:
- *This feature does not affect the audio signal output from the DIGITAL AUDIO OUT terminal.*
- *If you feel it is hard to listen to audio due to signal status, turn off **Dolby Volume**.*
- *This feature will automatically switch **Off** when **Dynamic Range Control** is set to **On** or **Digital Audio Output** is set to **Auto**.*

Adjusting 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 this feature reduces these volume differences.

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

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

3 From the **Sound** menu, press ▽ or △ to select **Audio Level Offset** and press **OK**.

4 Press ▽ or △ to select an option and press ◁ or ▷ to adjust the volume level.

Audio Level Offset	
DTV 2ch	-5 ———I———
ATV	0
External input	0
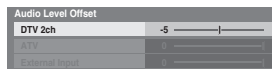
Notes:
- *The available item changes depending on the current input source. For example, when watching a DTV 2ch programme, only DTV 2ch is available and the other two items are greyed out in the menu. This allows you to easily adjust according to each condition.*
- *When watching a DTV 5.1ch programme, this feature is not available.*

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.)

1 From the **Sound** menu, press ▽ or △ to select **Headphone Settings** and press **OK**.

2 Press ▽ or △ to select **Speaker Link** and press ◁ or ▷ to select **On** or **Off**.

3 If you select **Off**, next select **Headphone Level** and press ◁ or ▷ to adjust the headphone sound.

Headphone Settings	
Speaker Link	Off
Headphone Level	50

Other feature settings

Activating Blue Screen

With the **Blue Screen** function **On**, the screen will automatically turn blue and the sound will be muted when no signal is being received.

1 From the **Preferences** menu, press ▽ or △ until **Blue Screen** is selected.

2 Press ◁ or ▷ to select **On** or **Off**.

Activating 4:3 Stretch

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

1 From the **Display Settings** menu, press ▽ or △ to select **4:3 Stretch**.

2 Press ◁ or ▷ to select **On** or **Off**.

Panel Lock

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

1 From the **Preferences** menu, press ▽ or △ to select **Panel Lock**.

2 Press ◁ or ▷ to select **On** or **Off**.

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

Setting Automatic Power Down

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

1 From the **Preferences** menu, press ▽ or △ until **Energy Saving Settings** is selected and press **OK**.

2 Press ▽ or △ to select **Automatic Power Down**, press ◁ or ▷ to select **On** or **Off** and press **EXIT**.

Notes:
- *This feature is set to **On** when **Location** is set to **Home**.*
- *1 minute before switching to standby, a warning message will appear.*
- *The TV will automatically turn itself off after approximately 1 hour if you do not operate the TV (after turned on by **On Timer**).*

Setting 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 an external input in order to listen to music through the TV speakers.

1 From the **Energy Saving Settings** menu, press **OK**.

2 Press ▽ or △ to select **No Signal Power Down** and press **OK**.

3 Press ▽ or △ to select the item you want to change, and press ◁ or ▷ to select **On** or **Off**.

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

The timers

Setting a Programme Timer - digital -

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.

1 From the **TV Programmes** menu, press △/◁ or ▷ to select the **Programme Timers** and press **OK**.

2 Press ▽ if necessary to select an open timer position and press **OK**. The **Set Timer** menu will now appear on screen.

3 Press ▽ or △ to go through the list adding the details of the programme by using the number buttons and ◁ or ▷ to make selections.

Set Timer	10:50 Mon, 25 Apr
Channel	☐☐☐☐☐
Date	◀ Mon, 25 Apr 2011 ▶
Start Time	10:49
Repeat	Once
Set Timer	Delete Timer
0-9 Input ◈ Edit	
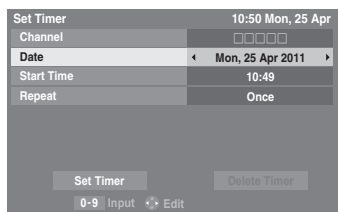
4 When all the details have been entered , select **Set Timer** and press **OK** to save the timer.

The Programme Timer indicator (☞ page 9) will appear orange.

5 Press **P∨** to advance to the next page, or press **P∧** to go back to the previous page.

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.

On Timer

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

1 From the **Function** menu, press ▽ or △ to select **On Timer** and press **OK**.

2 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	☐☐☐☐☐
Volume	30
Time until Power On	00:00
Done	
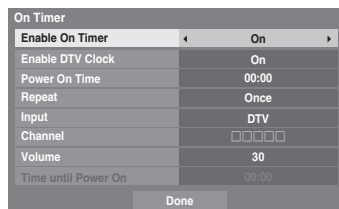
3 Press ▽ to select **Enable DTV Clock** and press ◁ or ▷ to select **On** or **Off**.

4 Press ▽ or △ to go through the list adding the details of the on timer by using the number buttons and ◁ or ▷ to make selections.

Power On Time (only when DTV Clock set to On): Set the time you prefer with the number buttons.

Repeat (only when DTV Clock set to On): 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 TV turns on.

Note:
When an external input is selected in the Input field, this feature cannot be selected.

Volume: Select the volume level that will be set when the TV 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 When all the details have been entered, select **Done** and press **OK** to start the timer.

To cancel the On Timer

1 From the **On Timer** menu, select **Enable On Timer**.

2 Press ◁ or ▷ to select **Off** and press ▽ or △ to select **Done**, and press **OK**.

Setting the Sleep Timer

The Sleep Timer is especially useful if you want the TV to turn itself off after a selected period of time.

1 From the **Function** menu, press ▽ or △ to select **Sleep Timer**.

2 Press the **Number** buttons (0-9) to enter the amount of time until the TV turns off. Alternatively, press ◁ or ▷ to adjust the time in blocks of 10 minutes up to 12 hours.

3 Press **EXIT** to start the timer.

To cancel the sleep timer:
Press ▽ or △ until the time is set to 00:00.

Resetting the TV

Reset TV will reset all TV settings, including stored channels, to their original factory values.

1 From the **System Setup** menu, press ▽ or △ until **Reset TV** is selected.

System Setup	
DTV Manual Tuning	▲
DTV Settings	
Quick Setup	
Location	Home
Software Upgrade	
Software Licences	
System Information	
Reset TV	
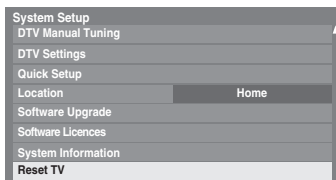
2 Press **OK** to select.

A screen will appear warning that all settings will be lost. Select **Yes** and press **OK** to continue.

When the set powers back on, the **Menu Language** screen will appear (☞ page 13). Press **OK** to continue and proceed to the **Auto Tuning** menu (☞ page 17).

If PIN code has been set, the PIN Settings screen will appear (☞ page 38).

Channel List

1 Press the **LIST** button. The **Channel List** will appear.

Channel List		
All Channels		
▬	6	☐☐☐
▬	9	☐☐
▬	11	☐☐☐
▬	31	☐☐☐☐
▬	34	☐☐☐
▬	36	☐☐☐☐☐☐
▬	48	☐☐☐☐
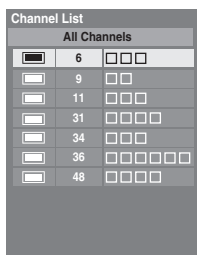
2 Press ▽ or △ to select a channel or input and press **OK** to watch.

In DTV mode, press ◁ or ▷ to select Favourites 1-4. The number of favourites available depends on how many favourite lists have been created.

Selecting the video input source

1 At any time by pressing ⊙ on the remote control or TV, a list will appear on screen showing all inputs and external equipment.

Pressing ⊙ on the remote control

Inputs
TV
⊙ 1
⊙ 2
⊙ 3
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC

Pressing ⊙ on the TV left side panel

Inputs
DTV TV
DTV RADIO *
DTV TEXT *
⊙ 1
⊙ 2
⊙ 3
HDMI 1
HDMI 2
HDMI 3
HDMI 4
PC
ATV

If radio or text channels are currently available for DTV.

HDMI® displays equipment connected to HDMI inputs on the back or side of the TV.

PC displays a computer connected to the RGB/PC input on the back of the TV.

2 Press **OK**.

TV (Digital TV or Analogue TV),

⊙ 1 (⊙ (1), video 1 input),

⊙ 2 (⊙ (2), component video input),

⊙ 3 (⊙ (3), video 3 input),

HDMI 1, HDMI 2, HDMI 3, HDMI 4 (HDMI input), PC (⊙ RGB/PC, PC input)

Notes:
- *If a REGZA-LINK device is connected to an HDMI input, the **REGZA-LINK** icon will appear.*
- *When the TV 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 a connected device or an HDMI setting for a connected device is changed, **Enable REGZA-LINK** in the **REGZA-LINK** menu may need to be reset to **On**.*

Setting the Colour System

1 From the **System Setup** menu, press ▽ or △ to select **Colour System**.

System Setup	
Menu Language	**English**
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Colour System	◀ **Auto** ▶
Quick Setup	
Location	
Software Upgrade	▼
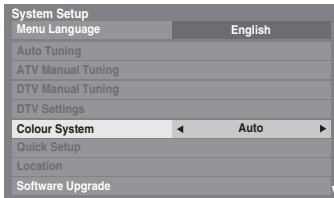
2 Press ◁ or ▷ to select **Auto**, **PAL**, **SECAM**, **NTSC 4.43** or **NTSC 3.58**.

Notes:
- *Confirm that colour system is set to "**Auto**" . If not, select "**Auto**" with ◁ or ▷.*
- *This feature is available in Standard video (composite) inputs mode.*

Setting the external input skip

This feature is designed to make input selection more convenient.

1 From the **Preferences** menu, press ▽ or △ until **AV Connection** is selected and press **OK**.

Preferences	
Network Setup	▲
Network Device Setup	
Photo Frame Setup	
Teletext	Auto
Network Lock	Off
Panel Lock	Off
Display Settings	
AV Connection	▼

2 Press ▽ or △ to select **Input Labeling** and press **OK**.

AV Connection	
Input Labeling	
PC/HDMI 3 Audio	PC
HDMI 3 Audio	Digital
HDMI Settings	
Digital Audio Output	
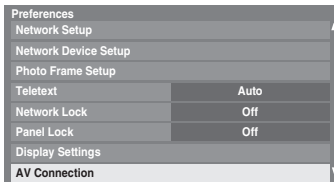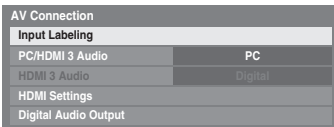
3 Press ▽ or △ to select the input you want to skip and press the **RED** button to turn on the skip.

Input Labeling			
Input	Label		
EXT 1	◀ -- ▶		
EXT 2	--		
EXT 3	--		
HDMI 1	--		
HDMI 2	--		
HDMI 3	--		
HDMI 4	--		
PC	--		

4 To turn off the skip, press the **RED** button again.

The input set to Skip is greyed 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.

1 From the **Preferences** menu and press **OK**.

2 Press ▽ or △ 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	--	

3 Press ▽ or △ to select the item you want to label and press ◁ or ▷ to select --, **Amplifier**, **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** (☞ page 54) or using the number buttons for number input. To save your settings, press the **BLUE** button.*

4 Repeat step 3 for other video inputs.

Using REGZA-LINK

This feature uses CEC (Consumer Electronics Controls) technology and allows the control of Toshiba REGZA-LINK compatible devices from the TV remote control via HDMI connection (☞ page 47).

Note:
Not all Toshiba products currently support REGZA-LINK.

REGZA-LINK Setup

1 From the **Preferences** menu, press ▽ or △ to select **REGZA-LINK Setup**.

2 Press **OK** and press ▽ or △ to select **Enable REGZA-LINK**.

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	On	

3 Press ◁ or ▷ to select **On** or **Off**.

4 Press ▽ or △ to select the **REGZA-LINK Setup** item you want to use and press ◁ or ▷ to select **On/Off** or the desired speakers mode.
   • **TV Auto Power: On/Off**
   • **Auto Standby: On/Off**
   • **Amplifier Control: On/Off**
   • **Initial Speaker Setting: TV Speakers/ Amplifier**
   • **Position Key Pass Through: On/Off**

REGZA-LINK functions

When **Enable REGZA-LINK** is set to **On**, the following functions can be enabled by setting them to **On**.

TV Auto Power
The **TV Auto Power** setting allows the TV to be automatically switched on if a REGZA-LINK device is turned on.

Auto Standby
If **Auto Standby** is enabled, the TV, when switched off, will automatically switch off (put into standby mode) all connected REGZA-LINK devices.

Amplifier Control
When **Amplifier Control** is set to **On**, it allows the "**Speaker Preference**" feature to become available.

Initial Speaker Setting
This feature allows the **Initial Speaker Setting** to be set to **TV Speakers** or **Amplifier**. The **Amplifier** option allows the remote control to adjust or mute the volume of the external audio.

Notes:
• *When you turn on the amplifier, change its input source, or adjust the sound volume, the sound will be output from the amplifier's speakers even if **TV Speakers** has been selected. Turn the TV to standby and on again to output the sound from the TV speakers.*
• *The above functions are dependent on the connected device and TV setting.*

Position Key Pass Through
When **Position Key Pass Through** for the selected HDMI input mode is set to **On**, the **P∧**, **P∨** and number (0-9) keys on the remote control will pass through. When in **Off**, those operate as TV programme selection keys.

REGZA-LINK one touch play

When a connected device is switched on, REGZA-LINK will automatically switch the TV to the appropriate HDMI input. Also, if the TV is in standby, it will be switched on automatically.

These functions can be enabled or disabled from the **REGZA-LINK Setup**.

Note:
Even if the device is only showing a menu, the TV may automatically switch to that input source.

REGZA-LINK system standby

This feature automatically puts the connected device into standby when the TV goes into standby and vice versa.

REGZA-LINK system audio control

Using the Speaker Preference feature allows the TV remote control to adjust the volume or mute the sound of the speakers connected to the TV via an AV amplifier.

Ensure that the connected AV amplifier and REGZA-LINK device are selected in the input source selection and that **Initial Speaker Setting** is set to **Amplifier** in the **REGZA-LINK Setup** menu or in the **Quick Menu** (**Speakers**).

Notes:
• *The above functions are dependent on the connected device and TV setting.*
• *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 for **Initial Speaker Setting**. Turn the TV first to standby and on again to output the sound from the TV speakers.*
• *The proper function may not work when operating the AV amplifier.*

REGZA-LINK input source selection

When devices that use CEC technology have been connected, the REGZA-LINK icon will be displayed in the input source list.

Inputs	
TV	
⊕ 1	
⊕ 2	
⊕ 3	
HDMI 1	REGZA-LINK ▶
HDMI 2	
HDMI 3	
HDMI 4	
PC	

To select the REGZA-LINK input source, refer to "Selecting the video input source" on page 31.

Notes:
• *This function depends on the devices connected.*
• *If you select the REGZA-LINK input source from the popup window, some REGZA-LINK devices may automatically turn on.*
• *When the TV 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 a connected device or an HDMI setting for a connected device is changed,* ***Enable REGZA-LINK*** *in the* ***REGZA-LINK Setup*** *menu may need to be reset 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.

1 Press **QUICK** to open the **Quick Menu**.

2 Press ▽ or △ to select **REGZA-LINK Device Control** and press **OK**.

REGZA-LINK Device Control		
Recorder	Power	Eject
Root Menu		
Contents Menu		
Setup Menu		
Top Menu		
DVD Menu		
Audio		
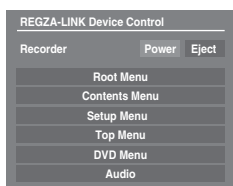
3 Press ▽ or △ to select a control option and press **OK**.

Note:
The available functions depend on the equipment connected. Please refer to the operation manual for each piece of equipment connected.

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The TV features that can be controlled by the connected device remote control are:

Volume, Sound mute, Input selection, Previous menu (☞ page 12).

Note:
These functions are dependent on the connected device. Not all the remote control buttons may be available. Please refer to the owner's manual for all the connected devices.

To connect the 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.

Teletext

This TV has a multi-page teletext memory, and it offers two ways of viewing Teletext **Auto** and **LIST**, which are explained below.

Setting the teletext mode

To select teletext mode:

Select a channel position with the desired teletext service.

1 From the **Preferences** menu, press ▽ or △ to select **Teletext**.

Preferences	
Personal TV Setup	
REGZA-LINK Setup	
Network Setup	
Network Device Setup	
Photo Frame Setup	
Teletext	◀ Auto ▶
Network Lock	Off
Panel Lock	Off ▼
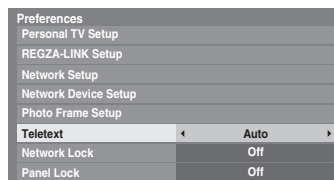
2 Press ◁ or ▷ to select **Auto** or **LIST** mode.

Notes:
• *It may take a few moments for the multi-page teletext memory to load.*
• *You must exit teletext mode in order to display the main menu.*

Teletext general information

TEXT button:

Pressing **TEXT** once will bring up the teletext screen. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV

mode. You need to return to normal viewing if you wish to change channels.

When you first press **TEXT** to access the text service, the first page you see will be the initial page.

In **Auto** mode, this displays the main subjects available and their relevant page numbers.

In **LIST** mode, you will see the page numbers currently stored for **each colour** button.

Sub-pages

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

If you open a page containing sub-pages, the sub-pages are automatically displayed in sequence. To quit automatic sub-page change, press ◁ or ▷.

Once selected, the sub-page you are viewing will be highlighted and, as the TV 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.

Using Auto mode

There are two Teletext modes: **Auto** will display FASTEXT. **LIST** will display your four favourite pages. In either mode, as an alternative to the coloured buttons, you can access a page by entering a 3-digit number or by using the ∧ / ∨ keys to go back and forth between pages.

To change between **Auto** and **LIST**, please see "**Setting the teletext mode**".

• Press **TEXT** to access teletext.

FASTEXT

100	Sport		14:57:55

Football Baseball Racing Swimming

Red   Green   Yellow   Blue
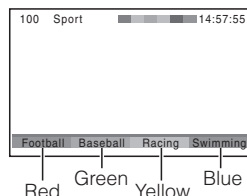
If FASTEXT is available, you will see 4 coloured titles at the bottom of the TV screen. To access any given subject, simply press the appropriate coloured button on the remote control.

If FASTEXT is not available, you can access any page simply by entering a 3-digit page number or pressing the corresponding coloured button.

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

Using LIST mode

1 Press **TEXT** to access teletext.

100	TEXT M00		14:58:55

100   200   300   400

Red   Green   Yellow   Blue
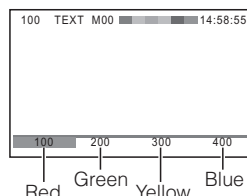
The four choices at the bottom of the screen are now numbered – **100**, **200**, **300** and **400**.

2 To view these pages, use the coloured prompt buttons, e.g. press the Green button to view page 200.

3 If you want to change the stored pages, press the coloured button for the colour you want to change, e.g. press the **Green** button and enter the 3-digit number.

100	TEXT M00		14:58:59

100   250   300   400
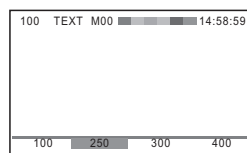
This number will change in the top left of the screen and in the coloured highlight.

4 Press **OK** to store your choice.

5 You may view other pages by simply entering the 3-digit page number – but NEVER press **OK** or you will lose the favourite already stored.

Teletext buttons on the remote control

Below is an introduction to the teletext buttons on your remote control and their functions.

▤i To display the index/initial page:
In Auto-mode

Press ▤i to access the index page. The one displayed is dependent on the broadcaster.

In LIST-mode

Press ▤i to return to the 100 page or initial page.

▤? To reveal concealed text:

Some pages cover topics such as quizzes and jokes. To discover the solutions, press ▤?.

▤ To hold a specific page:

At times it is convenient to hold a page of text. Press ▤

and ▤ will appear in the top left of the screen. The page will be held on screen until the button is pressed again.

▤ To enlarge the teletext display size:
Press ▤ once to enlarge the top half of the page, and press again to enlarge the bottom half of the page. Press again to revert to the normal size.

⏱/▣ To select a page while viewing normal picture:
When in teletext mode, if a page selection is made and ⏱/▣ is pressed, normal picture will be displayed. The TV will indicate when the page is present by displaying the title bar of the text page at the top of the screen. Press **TEXT** to view the page.

Note:
It will not be possible to change TV channels while in Teletext mode. You will have to cancel Teletext first by pressing TEXT to return to normal TV picture.

To select the time display - analogue -:
If you press ⏱/▣ while watching a normal TV broadcast, you will see a time display from the broadcaster. It will remain on the screen for about 5 seconds.

9:56 and 25 seconds p.m.

```
                          21:56:25




```
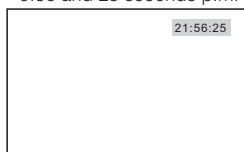
Subtitle and Audio

Selecting Subtitles - digital -

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

1 From the **DTV Settings** menu, press ▽ or △ to select **Subtitle and Audio** and press **OK**.

2 Press ▽ or △ to select **Subtitle Display** and use ◁ or ▷ 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	

3 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.

Selecting Audio languages - digital -

This feature allows a programme or film to be viewed with a choice of soundtrack language, provided multiple language tracks are being broadcast.

1 From the **Subtitle and Audio** menu, press ▽ or △ to select **Audio Type** and press ◁ or ▷ to select **Normal** or **For Hard of Hearing**.

2 Press ▽ or △ to select **Primary Audio Language** or **Secondary Audio Language** and use ◁ or ▷ to select an option.

   If more than one soundtrack is available, use the ◯I/II button to select between them.

Using the EPG (Electronic Programme Guide)

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

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

Note:
*Pressing the **TV** will switch the service type.*

2 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.

3 For details of other programmes currently available, press ▽ or △ to scroll up or 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.

4 For information on a highlighted programme, press ⓘ+.

5 To set a timer for a selected programme (if a future programme), press **OK**. Pressing the **BLUE** button will jump to the **Programme Timers** menu (☞ page 30).

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.

6 Press **P⌄** to advance to the next page, or press **P⌃** to go back to the previous page.

Using the Genre Colour Search

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

1 Press the **QUICK** button from the guide screen.

2 Press ▽ or △ to select **Genre Colour** in the **Quick Menu** and press **OK**.

Australia screen example
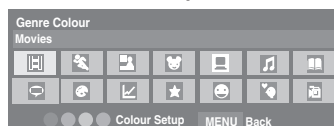
3 With the focus on a particular genre, press the desired colour key to assign. Four colours will be available to set. Press **BACK** to go back to the guide screen.

4 Press the **YELLOW** button from the guide screen to access the **Genre Search** screen.

5 Press ◁ or ▷ to select the genre. Programmes listed will change for the new genre. Press ▽ or △ 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.

7 For information on a highlighted programme, press ⓘ+.

8 To exit the **Genre Search** and go back to the guide screen, press the **YELLOW** button.

Digital settings - Channel Options

Selecting favourite channels

Favourite Channels creates a list of the digital channels that are watched most. Four lists can be created; these can be a mixture of TV, 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   ◉   🔒
>   □   ■   ■   ■   ■   ■
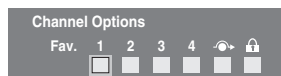
5 Press **OK** to select the ones required. A check mark will appear in the box as they are selected.

6 Repeat steps 1 through 5 for other channels.

7 When all favourites have been selected, press **EXIT**.

Skipping Channels

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

1 Select a channel you want to skip in your channel list.

2 From the **Quick Menu**, press ▽ or △ to select **Channel Options** and press **OK**.

3 Press ▷ repeatedly to select the skip box.

4 Press **OK** to select. A check mark 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 can still be accessed by direct number entry (when tuned a ◉ icon will be displayed in the banner to indicate as a skipped channel).

Locking Channels

Locking Channels stops the viewing of **digital** channels. Locked channels can only be accessed by entering the PIN.

1 Select a channel you want to lock in your channel list.

2 From the **Quick Menu**, press ▽ or △ to select **Channel Options** and press **OK**.

3 Press ▷ repeatedly to select the lock box.

4 Press **OK** to select. A check mark will appear in the box.

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

5 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 viewed.

Digital settings - PIN Setting

In order to prevent unwanted access to certain menus and settings, a security PIN code can be set.

Setting the PIN

1 From the **DTV Settings** menu, press ▽ or △ to select **Parental PIN Setup** and press **OK**.

2 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:**   □
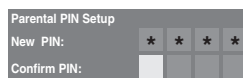
Changing or Deleting your PIN code

1 From the **Parental PIN Setup** menu, press **OK**.

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

3 Select **Change PIN** or **Delete PIN** and press **OK**.
> **Note:**
> *If you delete the PIN code, the settings of Parental Control are reset.*

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

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.

1 From the **DTV Settings** menu, press ▽ or △ to select **Parental Control**.

> **Parental Control**
> **Parental Setup**   ◄   None   ►

2 Press ◁ or ▷ to choose the desired **Parental Setup** option.

- **None**, **Block all**, **Block G and above**, **Block PG and above**, **Block M and above**, **Block MA and above**, **Block AV and above**, **Block R and above**.

To view blocked programmes, enter the PIN.

Using the 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.

1 From the **System Setup** menu, press ▽ or △ until **System Information** is selected.

2 Press **OK** to display the **System Information**.

System Information		
TOSHIBA		
2011		
x.x.x.x Xxx xx 2011 - xx:xx:xx XX:xx		
WEAK	AVERAGE	STRONG
Ch22		Poor
Ch25		Good
Ch35		Good
Ch46		Good
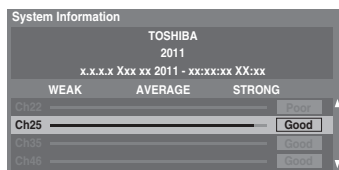
3 For information about the signal quality of a particular multiplex, press ▽ or △ to select that multiplex.

4 Press **OK** for a screen showing detailed technical information about the selected multiplex.

Local Time Settings

- This function allows you to manually set the time zone. Please note that if you manually change the time zone setting, all existing entries under Programme Timers will become invalid as they are still based on the old time zone. It is recommended that you delete all entries under Programme Timers before proceeding with the steps described below.

1 From the **DTV Settings** menu, press ▽ or △ to select **Local Time Setting**.

2 Press **OK** and press ▽ or △ to select **Time Zone**.

3 Press ◁ or ▷ to select the item you want to set. (**New South Wales**, **Northern Territory**, **Queensland**, **South Australia**, **Tasmania**, **Victoria**, **Western Australia**, **Australian Capital Territory**)

Local Time Setting		
Time Zone	◀ New South Wales ▶
Local Time	11:30

4 Press ▽ to select **Local Time** and press ◁ or ▷ to set as required.

Performing a Software Upgrade

Network Upgrade

TOSHIBA may offer upgrades for the TV's software in the future.

The TV's software is upgraded via the Network.

Before downloading software;

Configure your TV to connect to the Internet.

Note:
While the upgrade is being performed, you will not be able to watch the TV.

1 From the **System Setup** menu, press ▽ or △ to select **Software Upgrade** and press **OK**.

2 Press ▽ or △ to select **Network Upgrade** and press **OK**.

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

3 The TV software upgrade will start when download succeeds.

Viewing the Software Licences

The licences for the software used in this TV are available for viewing on screen.

1 From the **System Setup** menu, press ▽ or △ until **Software Licences** is selected.

2 Press **OK**.

A screen will appear displaying all of the licencing information required for the TV's software.

Setting the Digital Audio

Digital Audio Output

When connecting a surround sound amplifier to the digital audio output, the following options can be selected or adjusted.

1 From the **Preferences** menu, press ▽ or △ to select **AV Connection** and press **OK**.

2 Press ▽ or △ to select **Digital Audio Output**.

AV Connection	
Input Labeling	
PC/HDMI 3 Audio	PC
HDMI 3 Audio	Digital
HDMI Settings	
Digital Audio Output	
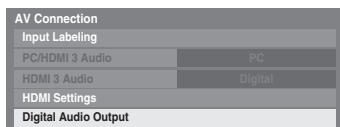
3 Press **OK** to display **Digital Audio Format** menu and press ▽ or △ to select an option.

Audio Format:
Press ◁ or ▷ to select **PCM** or **Auto**.

PCM: This mode outputs PCM format to the digital audio output socket.

Auto: This mode outputs Dolby Digital (if available) or PCM to the digital audio output socket.
Dolby Digital → Dolby Digital
Dolby Digital Plus → Dolby Digital
MPEG → PCM
HE-AAC → Dolby Digital

Audio Delay:
Press ◁ or ▷ to select **Auto** or **Manual**.

Auto: This mode automatically adjusts the audio timing to match 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 match the video signal timing.

Delay Adjustment:
Press ◁ or ▷ to adjust the audio signal timing (0 - 250 ms) to match the video signal timing.

Notes:
- *This feature is greyed out when **Audio Delay** is in **Auto**.*
- *A time lag will occur when the video signal or audio signal is changed. Adjust the timing accordingly.*
- *When adjusting the timing, turn down the volume of the AV equipment used as far as possible. Depending on the equipment, noise etc. may occur when the signal is changed.*
- *Depending on the connected equipment (amplifier, etc.), adjustment may not be possible.*
- *When the optical digital output setting (Auto↔PCM) is changed, it may be necessary to adjust the timing again.*
- *Do not use other than for audio output from the AV amplifier, etc. (Malfunction may occur)*

Dynamic Range Control

This feature allows control of audio compression for digital TV programmes excluding those with MPEG-1 and MPEG-2 audio.

1 From the **Sound** menu, press ▽ or △ to select **Dynamic Range Control**.

2 Press ◁ or ▷ to select **On** or **Off**.

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

• Most of the picture/sound controls and functions are available in both digital and analogue modes. However, features not available will be greyed out.

Back connections

Connection example

Back of TV

Set Top Box

or

DVD video player
(with component video outputs)

Scart/Phono jacks adaptor (supplied)

VCR (Normal)
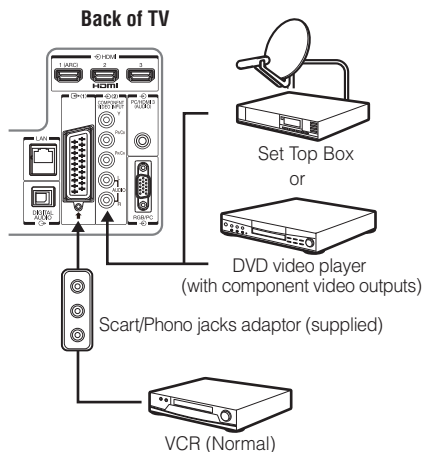
• Before connecting any external equipment, turn off all main power switches.

• The unauthorized recording of TV programmes, DVDs, video tapes and other materials may infringe upon the provisions of copyright law.

• ☞ 1 connection: Use for the Scart/Phono jacks adaptor (supplied).

• The **COMPONENT VIDEO INPUT** consists of three component video signals (**Y**, **P$_B$/C$_B$**, **P$_R$/C$_R$**) and provides better picture performance. These terminals can only be used with component video compatible equipment e.g. DVD video player, etc.

• Additional equipment and cables shown are not supplied with this TV.

Connecting an audio system - digital -

You can enjoy high quality dynamic sound by connecting the TV to an audio system.

Notes:
• *DO NOT connect the **DIGITAL AUDIO** output terminal to the AC-3 RF input of a Dolby Digital Receiver with a built-in Dolby Digital decoder.*
• *Connect the **DIGITAL AUDIO** output terminal to the **OPTICAL** input of a receiver or processor.*
• *Refer to the owner's manual of the connected equipment as well.*

• *When you connect the TV to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.*
• *The output sound of the TV has a wide dynamic range. Be sure to adjust the audio amplifier's volume to a moderate listening level before turning on the power. Otherwise, the speakers and your hearing may be damaged by sudden high volume audio.*
• *Turn off the amplifier before you connect or disconnect the TV's power cord. If you leave the amplifier power on, the speakers may be damaged.*

Warning:
*When you are connecting (via the **DIGITAL AUDIO** output terminal) an AV decoder that does not have Dolby Digital decoding function, be sure to set **PCM** for Digital Output menu (☞ page 40). Otherwise, the speakers and your hearing may be damaged by sudden high volume audio.*

Connecting an amplifier equipped with a Dolby Digital decoder

Amplifier equipped with Dolby Digital decoder

To **Optical** type digital audio input

Optical digital cable (not supplied)

Back of TV

DIGITAL AUDIO

To Digital Audio output terminal

| ■ Front speaker | ▢ Surround speaker | ▯ Sub woofer |
| ▯ Centre speaker | ⇒ Signal flow | |
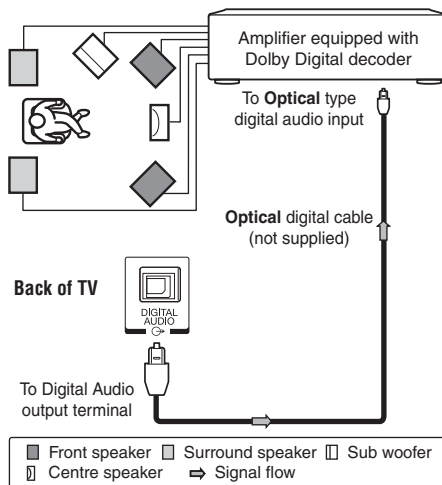
You can enjoy dynamic realistic sound by connecting the TV to an amplifier equipped with a Dolby Digital decoder or Dolby Digital processor. When using this setup, select **Auto** in the Digital Output menu.

Connecting an amplifier equipped with a digital audio (optical) input

Amplifier equipped with digital audio input

To **Optical** type digital audio input

Optical digital cable (not supplied)

Back of TV

DIGITAL AUDIO

To Digital Audio output terminal

■ Front speaker ⇒ Signal flow
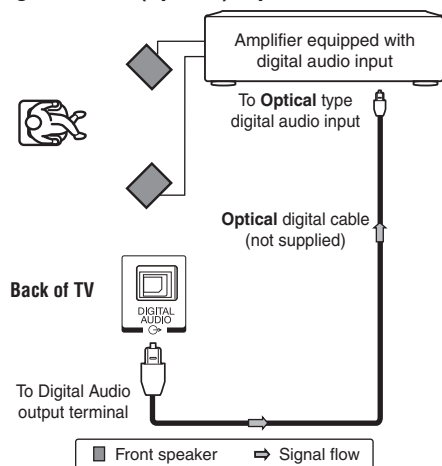
You can enjoy the dynamic sound of a 2-channel digital stereo by connecting the TV to an amplifier equipped with a digital audio (optical) input and speaker system (right and left front speakers). When using this setup, select **PCM** in the Digital Output menu (☞ page 40).

Side connections

You can connect a wide variety of auxiliary equipment via the terminals located on the left side of the TV ⊕ **(3)**.

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

Connection example

Left side of the TV

R
AUDIO
L

VIDEO

Video Games   Camcorder
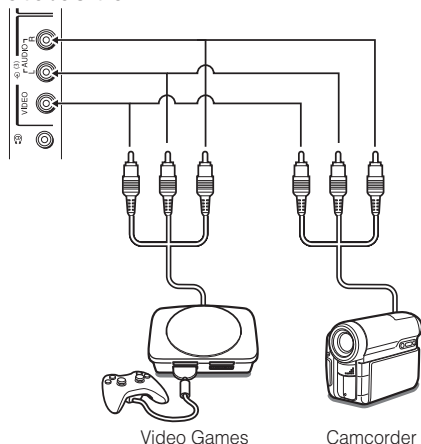
• To select the side inputs, press ⊕ to display the video input mode list, press ▽ or △ to select ⊕ 3 (☞ page 31) and press **OK**.

• Before connecting any external equipment, turn off all main power switches.

• You can enjoy video games with this TV. However, shooting games, where the player shoots at a target on the TV screen with a light gun may not work because of the properties of the LCD Colour TV.

Connecting HDMI and DVI devices

• When turning on your electronic components, turn on the TV first and the HDMI or DVI device.

• When turning off your electronic components, turn off the HDMI or DVI device first and the TV.

• This TV may not be compatible with features and/or specifications that may be added in the future.

• This TV is only operable with L-PCM and Dolby Digital on 32/44. 1/48 kHz. If there is no sound when using HDMI, use the analogue audio cables to connect the TV and the HDMI device and select **Analogue** for **HDMI 3 Audio** of the **AV Connection** menu (☞ page 44).

Connecting HDMI and DVI devices

The HDMI input on your TV can receive digital audio and uncompressed digital video from an HDMI device and uncompressed digital video from a DVI device.

This input is designed to accept HDCP programme material in digital from CEA-861-D compliant consumer electronic devices (such as a set top box and DVD player with HDMI and DVI output).

The HDMI input is designed for best performance with 1080i (50 Hz/60 Hz), 1080p (24Hz/50Hz/60Hz) high-definition video signals, but will also accept and display 480i, 480p, 576i, 576p, 720p (50 Hz/60 Hz) and VGA (VESA 640×480 @ 60/72/75 Hz) signals.

• **HDMI**: High-Definition Multimedia Interface

• **DVI**: Digital Video Interface

• **HDCP**: High-bandwidth Digital Content Protection

• CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.

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• **Acceptable PC signal format**:

S-VGA: VESA 800 ✕ 600 @ 56/60/72/75 Hz

XGA: VESA 1024 ✕ 768 @ 60/70/75 Hz

W-XGA: VESA 1280 ✕ 768 @ 60/75 Hz

W-XGA: VESA 1360 ✕ 768 @ 60 Hz

S-XGA: VESA 1280 ✕ 1024 @ 60/75 Hz

However, these signal formats are converted to match the number of pixels of the LCD panel.
Therefore, the TV may not display small text properly.

• **Supported Audio format**:
L-PCM, Dolby Digital, sampling rate 32/44.1/48 kHz

• **L-PCM**: Linear-Pulse Code Modulation

Connecting a HDMI audio system

One HDMI cable (type A connector) is needed.
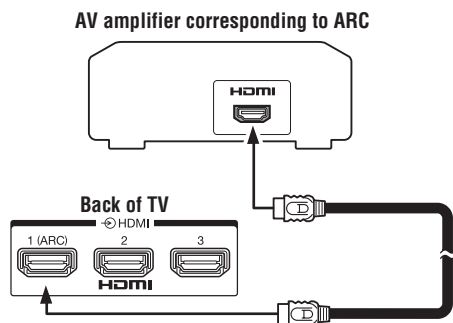
HDMI's ARC (Audio Return Channel) feature

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

Connecting an HDMI device

One HDMI cable (type A connector) is needed.
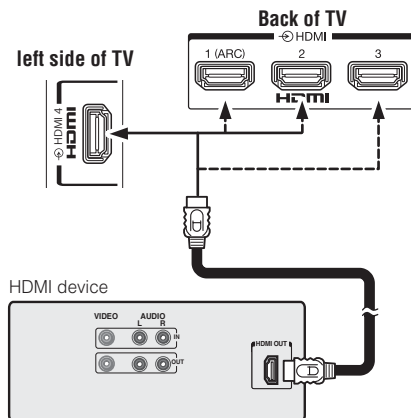
For proper operation, it is recommended that you use a short HDMI cable.

HDMI cable transfers both video and audio.

Note:
It is possible that some HDMI devices may not operate properly with this TV.

Connecting a DVI device

One HDMI (type A connector) -to-DVI adapter cable and analogue audio cables are needed.
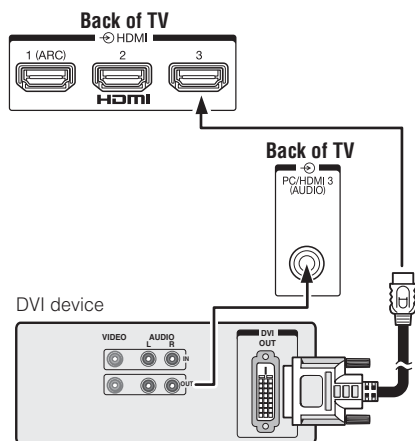
HDMI (type A connector)-to-DVI adapter cable
For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 3m. The recommended length is 2m.

Standard analogue audio cables

An HDMI-to-DVI adapter cable transfers only video.

Separate analogue audio cables are required.

Selecting the PC/HDMI 3 audio mode

You can select PC audio or HDMI 3 audio when using this function.

1 From the **Preferences** menu, press ▽ or △ until **AV Connection** is selected.

Preferences	
Network Lock	Off
Panel Lock	Off
Display Settings	
AV Connection	
Energy Saving Settings	
Blue Screen	On
Clock Display	Off
HDMI Information Display	Off
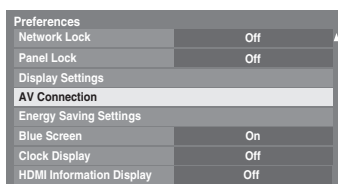
2 Press **OK** to display the **AV Connection** menu.

AV Connection	
Input Labeling	
PC/HDMI 3 Audio	◄ PC ►
HDMI 3 Audio	Digital
HDMI Settings	
Digital Audio Output	

3 Press ▽ or △ to select **PC/HDMI 3 Audio** and press ◁ or ▷ to select **PC** or **HDMI 3**.

Setting the HDMI 3 audio mode

You can select from three sound modes for an HDMI or DVI device connected to the HDMI 3 input terminal: **Auto**, **Digital** or **Analogue**.

Note:
*This function is available only when the PC/HDMI 3 Audio mode is set to **HDMI 3**.*

1 From the **AV Connection** menu, press ▽ or △ to select **HDMI 3 Audio**.

2 Press ◁ or ▷ to select **Auto**, **Digital** or **Analogue**.

Selecting the HDMI settings

The HDMI Settings menu consists of the following 3 items: **Enable Content Type**, **INSTAPORT™** and **RGB Range**. Some early HDMI equipment may not work properly with your HDMI TV. If you experience trouble, unplug your HDMI cable first and try setting the first two options to **Off**. This should allow your early HDMI source to operate properly with your TV.

1 From the **AV Connection** menu, press ▽ or △ to select **HDMI Settings** and press **OK**.

HDMI Settings	
Enable Content Type	◄ On ►
INSTAPORT™	On
RGB Range	Auto
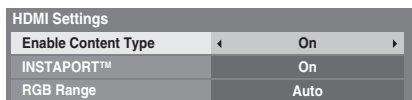
2 Press ▽ or △ to select each item and press ◁ or ▷ to select the desired setting.

Enable Content Type mode

This feature accepts the content type data from the connected HDMI device.

INSTAPORT™ mode

This feature reduces the lag time when switching HDMI sources.

RGB Range mode

This feature adjusts RGB full range signal automatically (if Auto is selected). When **Limited** is selected, RGB output signal is output in the range from 16 to 235. When **Full** is selected, RGB output signal is output in the range from 0 to 255.

Notes:
- *If your HDMI connection is capable of 1080p and/ or your TV is capable of refresh greater than 50 Hz or supports Deep Colour, you will need a Category 2 cable.*
- *All of the above HDMI settings need proper HDMI source devices. If the HDMI source products do not support these features, the TV may not work properly by activating these features.*

Connecting a computer (PC)

Connecting a PC to the RGB/PC terminal on the TV:

An analogue RGB (15 pin) computer cable can be connected.
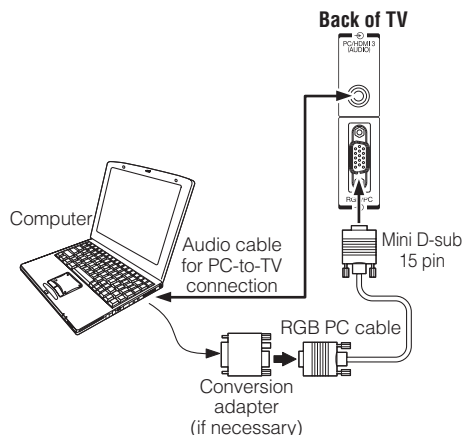
Back of TV

Connect a PC cable from the computer to the ⏚ **RGB/ PC** terminal on the back of the TV.

The following signals can be displayed:

VGA: VESA 640 ✕ 480 @ 60/72/75 Hz

S-VGA: VESA 800 ✕ 600 @ 56/60/72/75 Hz

XGA: VESA 1024 ✕ 768 @ 60/70/75 Hz

W-XGA: VESA 1280 ✕ 768 @ 60/75 Hz

W-XGA: VESA 1360 ✕ 768 @ 60 Hz

S-XGA: VESA 1280 ✕ 1024 @ 60/75 Hz

1920x1080p @60Hz (Horizontal Frequency:67.5kHz(H), Pixel Clock Frequency:148.5MHz)

Notes:
- *Some PC models cannot be connected to this TV.*
- *There is no need to use an adapter for a computer with a DOS/V compatible mini D-sub 15 pin terminal.*
- *A bar may appear in the upper, lower, right or left side of the screen, or parts of the picture may be obscured depending on some signals. This is not a malfunction.*
- *If the edges of the picture are stretched, re-adjust the picture position adjustments in the **PC Settings** menu.*
- *Depending on the specification of the PC you are using the DVD-Video playing and the DVD's title, some scenes may be skipped, or you may not be able to pause during multi-angle scenes.*
- *The PC signal may not be detected correctly for certain PC models.*

Signal names for mini D-sub 15 pin connector

Pin assignment for RGB/PC terminal
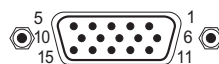
Pin No.	Signal name	Pin No.	Signal name
1	R	9	NC
2	G	10	Ground
3	B	11	NC
4	NC (not connected)	12	NC
5	Ground	13	H-sync
6	Ground	14	V-sync
7	Ground	15	NC
8	Ground		

Connecting a PC to the HDMI terminal on the TV:

When connecting a PC to the HDMI terminal on the TV, use an HDMI-to DVI adapter cable and analogue audio cables.

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

Back of TV
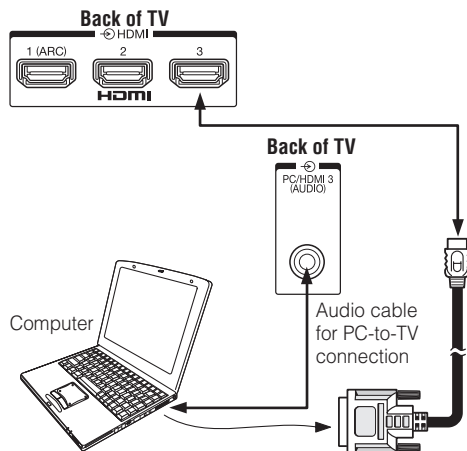
For acceptable PC signal formats, see page 43.

Notes:
- *The edges of images may be hidden.*
- *The PC signal may not be detected correctly for certain PC models.*

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Using the PC Settings

- First, press ⊕ to display the video input mode list and press ▽ or △ and **OK** in order to select PC input mode (☞ page 31).
- The PC Settings function may not be available for some signals and when no signal is received.
- In certain cases, it may be difficult to optimally set the clock phase and sampling clock values depending on the input signal type.

Adjusting the picture position

1 From the **Display Settings** in the **Preferences** menu, press ▽ or △ to select **PC Settings**.

Display Settings	
Auto Format	On
4:3 Stretch	Off
Picture Position	
PC Settings	
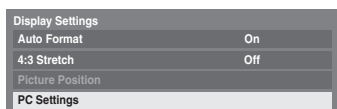
2 Press **OK** to display the **PC Settings** menu.

PC Settings	
Horizontal Position	0
Vertical Position	0
Clock Phase	0
Sampling Clock	0
Reset	
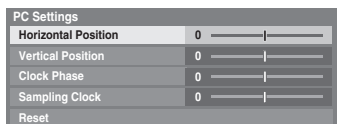
3 Press ▽ or △ to select the option you want to adjust. Press ◁ or ▷ to adjust the settings as desired.

Horizontal Position	0

Adjusting the clock phase of the picture

If the clock phase, which synchronizes the PC signal and LCD display, is not optimized, the picture will blur.

This function allows you to adjust clock phase and display a clear picture.

1 From the **PC Settings** menu, press ▽ or △ to select **Clock Phase**.

2 Press ◁ or ▷ to obtain a clear picture.

Clock Phase	0

Adjusting the sampling clock

If the sampling clock does not match with the dot clock frequency of the PC, picture details will be blurred, screen width will change, or drift patterns in vertical lines may be apparent.

This function allows you to adjust and optimize the picture.

1 From the **PC Settings** menu, press ▽ or △ to select **Sampling Clock**.

2 Press ◁ or ▷ to optimize the picture.

Sampling Clock	0

Resetting the PC Settings

The Reset function adjusts the PC Settings to the factory settings.

1 From the **PC Settings** menu, press ▽ or △ to select **Reset**.

2 Press **OK**.

Note:
When a PC is connected using HDMI, none of these functions will be available.

REGZA-LINK connection

You can control the basic functions of connected audio/video devices using the TV's remote control if you connect a REGZA-LINK compatible audio receiver or playback device. For an explanation of setup and operations, see pages 33, 34.

Connection example
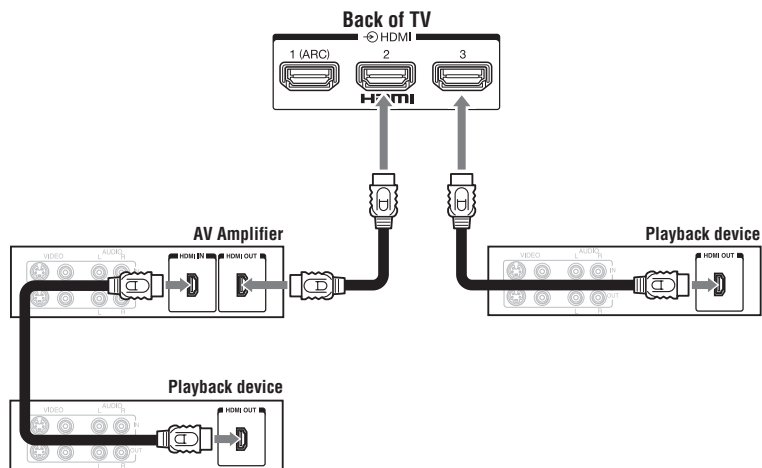
Before controlling the device(s):

• After completing the above connections, set the **REGZA-LINK Setup** menu as you desire (☞ page 33).

• The connected devices must also be set. For details, see the owner's manual for each device.

Notes:

• *If several devices are connected, the REGZA-LINK feature may not operate properly.*

• *The REGZA-LINK function uses CEC technology as regulated by the HDMI standard.*

• *For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (HDMI®).*

• *This function is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to the individual owner's manuals for compatibility information.*

• *This function is able to operate one PC and one AV amplifier, but the PC may not operate properly with the AV amplifier. Some PC models may not be controlled properly by the TV.*

Using Personal TV Mode

You can customize some TV functions as desired and those settings can be saved in one of 4 Personal Modes (A to D). The **Personal Mode** can be selected from the **Quick Menu**.

To select the Personal Mode

1 Press **QUICK** to open the **Quick Menu**.

2 Press ▽ or △ to select **Personal Mode** and press **OK**.

Personal Mode
Normal
🔒 Personal Mode A
Personal Mode B
🔒 Personal Mode C
Personal Mode D
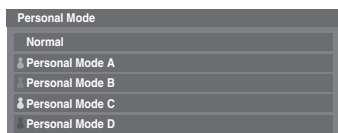
3 Press ▽, △ or the corresponding coloured button to select individual Personal Mode from **Normal**, **Personal Mode A**, **Personal Mode B**, **Personal Mode C** and **Personal Mode D**. The mode will default to **Normal** every the TV is turned off and on.

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

1 From the **Preferences** menu, press ▽ or △ to select **Personal TV Setup** and press **OK**.

Personal TV Setup	
● Personal Mode A	
● Personal Mode B	🔒
● Personal Mode C	🔒
● Personal Mode D	
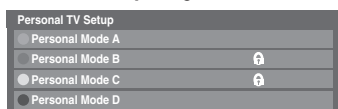
2 Press ▽ or △ (or corresponding coloured button) to select the individual Personal Mode and press **OK**.

Personal TV Setup	
Personal Mode A	
Edit name	
Personal PIN Setup	
Volume Type	Preset
Preset Volume	50
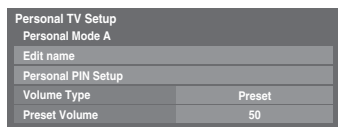
Edit Name
You can edit the name of your Personal Mode. Press ▽ or △ to select **Edit Name** and press **OK**. Edit the desired name by using the software keyboard (☞ page 54). The maximum number of characters is 25.

Personal PIN Setup
Press ▽ or △ to select **Personal PIN Setup** and press **OK**. Enter your personal PIN in same manner as "Parental PIN Setup". (☞ page 38)

Volume Type
Press ▽ or △ to select **Volume Type** and press ◁ or ▷ to select **Preset** or **Last**.
Last - Volume level just before you turn off the TV.

Preset - Your personal volume level you set.

Preset Volume
Press ▽ or △ to select **Preset Volume** and press ▽ or △ to adjust your desired volume level. When the **Volume Type** is set to **Last**, this feature will be greyed 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 Lists and press ◁ or ▷ to select **All** or your **Personal Mode** (**Fav5 - Fav8**)
  During **Personal Mode**, Fav ch select the settings as desired.

• Personal Picture Mode:
  The Picture Mode selected is stored in your **Personal Mode**.

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.

Notes:
• *The TV's home network connection allows access to file sharing only. You will not be able to use the TV to access the Internet.*

• *If you connect to a shared-network outside your home, please use the router, and use DLNA CERTIFIED™ products in a private network environment.*

• *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 have to manually set up the network address (☞ page 53).*

• *If you use a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.*

• If you connect the TV and PC directly, use a crossover LAN cable.

To connect the TV to a home network - Wired

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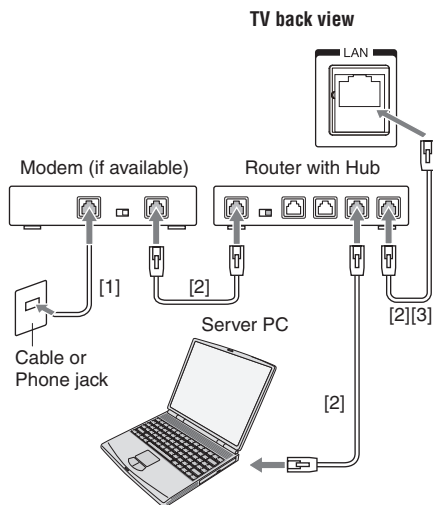
[1] Coaxial or telephone cable (depending on your modem type)

[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 - Wireless

Please refer to "Wireless Setup" section.
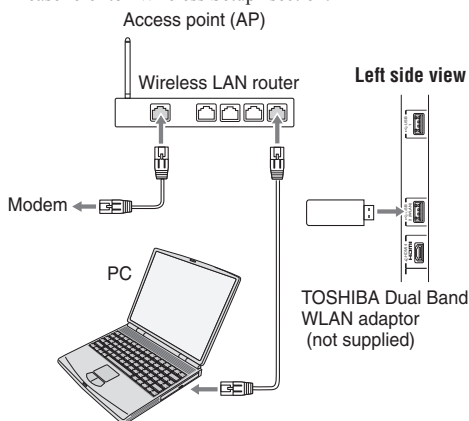
Using your home network

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.

If you want to use your home network, you will have to configure the network on your TV.

Change the network settings if necessary.

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 this TV 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.

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.

Setting up the Network

You can select the Network Type.

1 From the **Preferences** menu, press **Network Setup** 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 ▼
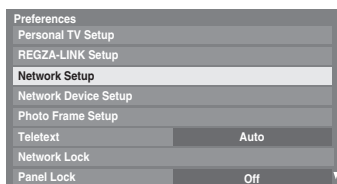
2 Press ▽ or △ to select **Network Type** and press ◁ or ▷ to select **Wired** or **Wireless**.

Network Setup			
Network Type	◄	Wired	►
Wireless Setup			
Advanced Network Setup			
Network Connection Test			
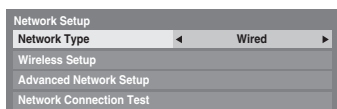
Note:
If the Dual Band WLAN Adaptor is not connected, Wireless cannot be selected.

3 If you selected **Wired**, see "**Advanced Network Setup**" on page 52.

Wireless Setup

Notes:
• *This feature is greyed out when the Dual Band WLAN Adaptor is not connected or Network Type is set to Wired.*
• *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.

Assisted Setup (setup by using the AP's notification information)
Network Name, Authentication, and Encryption are decided based on information from the AP. You will manually set the Security Key.

Manual Setup (manual input of all settings)

Easy Setup using PBC (Push Button Configuration)

1 From the **Preferences** menu, select **Network Setup** and press **OK**.

2 Press ▽ or △ to select **Wireless Setup** and press **OK**.

3 Press ▽ or △ to select **Easy Setup** and press **OK**.

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

4 Press ◁ or ▷ to select **PBC**.

5 Press ▽ to select **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 ◁ or ▷ to select **Yes** and press **OK**.

Easy Setup using PIN (Personal Identification Number)

1 From the **Preferences** menu, select **Network Setup** and press **OK**.

2 Press ▽ or △ to select **Wireless Setup**, and press **OK**.

3 Press ▽ or △ to select **Easy Setup** and press **OK**.

4 Press ◁ or ▷ to select **PIN**.

5 Press ▽ to select **Start Scan** and press **OK**.

6 Press ▽ or △ to select the desired AP and press **OK**.

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

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**.

To cancel searching for the AP:
Press **BACK** while searching for the AP. A message will appear and press ◁ or ▷ to select **Yes** and press **OK**.

Assisted Setup

1 From the **Preferences** menu, select **Network Setup** and press **OK**.

2 Press ▽ or △ to select **Wireless Setup** and press **OK**.

3 Press ▽ or △ to select **Assisted Setup** and press **OK**.

4 Press ▽ or △ to select the desired AP and press **OK**.

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

5 Select **Security Key** and press **OK**. The Software Keyboard window will appear.

6 Input the Security Key by using the Software Keyboard (☞ page 54). To save your setting, press the **BLUE** button.

   Notes:
   * *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.*

7 Select **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

1 From the **Preferences** menu, select **Network Setup** and press **OK**.

2 Press ▽ or △ to select **Wireless Setup** and press **OK**.

3 Press ▽ or △ to select **Manual Setup** and press **OK**.

4 Press ▽ or △ to select **Network Name** and press **OK**. The Software Keyboard window will appear.

5 Input the Network Name by using the Software Keyboard (☞ page 54). To save your setting, press the **BLUE** button.

6 Press ▽ or △ to select Authentication and press ◁ or ▷ to select **Open System**, **Shared Key**, **WPA-PSK** or **WPA2-PSK**.

7 Press ▽ or △ to select Encryption and press ◁ or ▷ to select **None**, **WEP**, **TKIP** or **AES**.

Notes:
* *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 ▽ or △ to select **Security Key** and press **OK**.

9 Input the Security Key by using the Software Keyboard (☞ page 54). To save your setting, press the **BLUE** button.

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

10 Select **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.

1 From the **Preferences** menu, press ▽ or △ to select **Network Setup** and press **OK**. Select **Wireless Setup** and press **OK**.

2 Press ▽ or △ to select **Enhanced 11n** and press ◁ or ▷ to select **On**.

Wireless Information

The settings configured in Wireless Setup can be confirmed.

1 From the **QUICK Menu**, press ▽ or △ to select **Wireless Information** and press **OK**.

Quick Menu	
Picture Mode	Standard
Picture Size	Wide
Personal Mode	
More Information	
Channel Options	
Sleep Timer	00:00
REGZA-LINK Device	
Speakers	TV Speakers
Headphone Level	30 ———|———
Wireless Information	

2 The **Wireless Information** window will appear.

Note:
*Press the **RED** button to scan for all detected APs (depending on the input mode will not be operated.).*

Item	Description
Status	**Connected** is displayed when the TV is connected with the AP. **Disconnected** is displayed when the TV is not connected with the AP.
Signal	Connection signal strength with AP (**STRONG**/**MEDIUM**/**WEAK**)
Speed	Link with AP

Item	Description
Mode	Working mode (11a, 11b, 11g, 11n)
Channel	Channel in use (1-165)
Network Name	SSID set
Authentication	Authentication set
Encryption	Encryption set
Security Key	Security Key set
AP MAC Address	The AP's MAC address is displayed when the TV is connected with the AP.
TV MAC Address	The MAC address of the TV is displayed.
DHCP	**Enabled** is displayed when using DHCP. **Disabled** is displayed when not using DHCP.
IP Address	The TV's IP address
Subnet Mask	Value of the Subnet Mask
Default Gateway	Address of the Default GATEWAY
DNS	Address of the DNS

Note:
*Even if an AP for IEEE 802.11n is used when Encryption is set to **WEP** or **TKIP**, the Speed value might be low. It is recommended that **Encryption** be changed to **AES**.*

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 band for audio and video streaming if bit rate of content is 10Mbps or less.*
- *It is recommended to use IEEE 802.11n on 5 GHz band for video streaming if bit rate of content is 20 Mbps or less.*
- *It is not recommended to use 2.4 GHz band for audio and video streaming.*
- *Content playback may not be interrupted by various network interference.*
- *Some contents on internet playback may be interrupted.*

Advanced Network Setup

Notes:
- *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.*
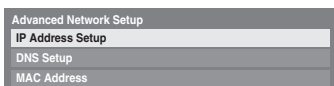
IP Address Setup

Auto Setup:

1 From the **Preferences** menu, select **Network Setup** and press **OK**.

2 Press ▽ or △ to select **Advanced Network Setup**, and press **OK**.

Network Setup	
Network Type	Wired
Wireless Setup	
Advanced Network Setup	

3 Press ▽ or △ to select **IP Address Setup**, and press **OK**.

Advanced Network Setup
IP Address Setup
DNS Setup
MAC Address

4 Select **Auto Setup** and press ◁ or ▷ to select **On**.

IP Address Setup			
Auto Setup	◀	On	▶
IP Address		- - -	
Subnet Mask		- - -	
Default Gateway		- - -	

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

Manual Setup:

1 From the **Preferences** menu, select **Network Setup** and press **OK**.

2 Press ▽ or △ to select **Advanced Network Setup**, and press **OK**.

3 Press ▽ or △ to select **IP Address Setup**, and press **OK**.

4 Select **Auto Setup** and press ◁ or ▷ to select **Off**.

5 Press ▽ or △ to select **IP Address**.

6 Press ◁ or ▷ to select the field you want to change and 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 ▽ or △ to select **Subnet Mask**, and edit in the same way as IP Address.

8 Press ▽ or △ to select **Default Gateway**, and edit in 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

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:

1 From the **Preferences** menu, select **Network Setup** and press **OK**.

2 Press ▽ or △ to select **Advanced Network Setup** and press **OK**.

3 Press ▽ or △ to select **DNS Setup** and press **OK**.

4 Select **Auto Setup** and press ◁ or ▷ to select **On**.

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

Manual setup:

1 From the **Preferences** menu, select **Network Setup** and press **OK**.

2 Press ▽ or △ to select **Advanced Network Setup** and press **OK**.

3 Press ▽ or △ to select **DNS Setup** and press **OK**.

4 Select **Auto Setup** and press ◁ or ▷ to select **Off**.

5 Press ▽ or △ to select **Primary DNS Address**.

6 Press ◁ or ▷ to select the field you want to change and 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.*

7 Press ▽ or △ to select **Secondary DNS Address**, and edit in the same way as Primary DNS Address.

MAC Address

You can view the fixed MAC address for the TV.

1 From the **Preferences** menu, select **Network Setup** and press **OK**.

2 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.

1 From the **Preferences** menu, select **Network Setup** and press **OK**.

2 Press ▽ or △ to select **Network Connection Test**, and press **OK**.

> **Note:**
> *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.

Setting the Network Lock

• This feature is available when you set **Parental PIN Setup** in the **DTV Settings** menu (☞ page 38).

• You can use the **Network Lock** feature to prevent the Web browser from launching.

1 From the **Preferences** menu, select **Network Lock** and press ◁ or ▷ to select **On** or **Off**.

2 Enter your four-digit PIN code.

Using the software keyboard

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

To enter text using the software keyboard:

1 Select the desired character on the on-screen software keyboard.

2 Press **OK**.

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

4 Press the **BLUE** button to close the software keyboard and return to the previous screen.

> **Note:**
> *If **BACK** is pressed, changes are not saved and the software keyboard window is closed. The text will remain as it was before starting the keyboard.*
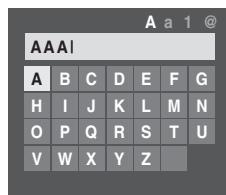
Input operation on the remote control:

Button	Description
OK	Inputs the selected character.
0-9	Inputs the number directly.
▽ △ ◁ ▷	Moves the character select.
◀◀ ▶▶	Moves the cursor.
◀◀	Moves the cursor to the head of a character string.
▶▶	Moves the cursor to the end of a character string.
RED	Deletes 1 character to the left of the cursor.
GREEN	Cycles through upper case, lower case, numbers, and symbols, if available.
YELLOW	Chooses an accented version of the current letter, if applicable.
BLUE	Saves changes and closes the Software Keyboard window.
BACK	Closes the Software Keyboard window without saving changes.

Setting Network Device setup

External Control Setup

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

1 From the **Preferences** menu, press ▽ or △ to select **Network Device Setup** and press **OK**.
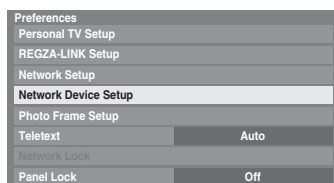
2 Press ▽ or △ to select **External Control Setup** and press **OK**.

3 Press ▽ or △ to select an option and press **OK**.

The Software Keyboard window will appear.

User Name - Input the User Name (to control the TV from external devices etc.) by using the on-screen software keyboard. The maximum number of characters is 16.

Password - Input the Password (to control the TV from external devices etc.) by using the on-screen software keyboard. The maximum number of characters is 16.

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

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 Setup

Media Renderer

1 From the **Preferences** menu, press ▽ or △ to select **Network Device Setup** and press **OK**.

2 Press ▽ or △ to select **Media Renderer Setup** and press **OK**.

3 Press ▽ or △ to select **Media Renderer** and 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.

1 From the **Media Renderer Setup** menu, select **Media Controller Setup**, and press **OK**.

2 Press ▽ or △ to select **Access Control** and press ◁ or ▷ to select **On**.

3 Press ▽ or △ to select **Select Media Controller**, and press **OK**.

4 Press ▽ or △ to select the item you want to accept, and press **OK**. A check will appear in the box.

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

5 Press ▷ to select **Done**, and then press **OK**.

Notes:
- *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 DMC may be displayed in the list. Confirm the MAC address of 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.

1 From the **Media Renderer Setup** menu, press ▽ or △ to select **Maximum Volume Setup**, and press ◁ or ▷ to adjust to the desired volume.

Notes:
- *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 device name as a DMR can change. The device name can be confirmed from the DMC.

1 From the **Network Device Setup** menu, select **Device Name Setup** and press **OK**.

2 Select the **Device Name** field and press **OK**. The Software Keyboard window will appear.

3 Input the Device Name by using the Software Keyboard (☞ page 54). To save your setting, press the **BLUE** button.

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

4 Select **Done**, and then press **OK**.

Using Toshiba Places

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

Notes:
- *You need to configure a home network before using this feature (☞ page 49).*
- *If **Network Lock** is set to **On**, it will be necessary to enter your four-digit PIN code in order to access network features (☞ page 38).*

1 Press **Menu** and ◁ or ▷ to select the **Toshiba Places** menu.

2 Press **OK** and press ▽, △, ◁ or ▷ to select the desired service.

The following service is selectable: YouTube™

Notes:
- *This TV may not be able to preform all of the same operations as a PC.*
- *Some features require an always-on broadband internet connection, firmware updates 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 representation, warranty or gives any assurances about the content, availability or functionality of third party content or services. Use of third party internet services may require registration via a computer and/or payment of charges and membership. Not all services or content may be available using this product. Additional devices may be required in order to experience the full capabilities of this product. For more information, visit http://www.mytoshiba.com. au/support/limitations.*
- *To select another **Toshiba Places** application: Press ⬚*

Using YouTube™

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

This TV allows you to view YouTube content.

Notes:
- *You need to configure a home network before using this feature (☞ page 49).*
- *If **Network Lock** is set to **On**, it will be necessary to enter your four-digit PIN code in order to access network features (☞ page 38).*

1 From the **Toshiba Places** menu, select **YouTube** and press **OK**.

2 Press ▽, △, ◁ or ▷ to select the file you want to view and press **OK**.

Closing YouTube:
Press **EXIT**.

Notes:
- *Not all YouTube content that can be accessed by computer may be viewed with this TV.*
- *Depending on network environment and the use situation, content may be difficult to view.*
- *Though the same volume value, an actual volume might be greatly different depending on content.*
- *This TV might take time to the start-up and the playback of content.*
- *Content that the user may feel is improper or offensive may be included in the content of YouTube.*
- *We do not assume at all the responsibility for content that YouTube offers.*
- *If you have any questions about YouTube content, please contact YouTube, LLC.*
- *The content of service and the screen that can be used may be changed without a previous notice.*
- *You cannot post videos to YouTube from this TV. Please use a PC to post videos.*
- *Not all content can be viewed normally when you access to websites other than YouTube XL through this TV.*
- *YouTube content have been independently managed by YouTube, LLC.*

Using the Function Menu

The Function menu provides easy access to functions that are often used.

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

2 Press ◁ or ▷ to select the desired icon and press **OK**.

| Back | Forward | Reload | Home | Pointer | Menu |
| http://www.youtube.com/xl |

Item	Description
Back	Returns to the previous page.
Forward	Moves to the next page.
Reload/ Abort	Updates the displayed page./ Aborts update (✕ is displayed while reading, and ↻ is displayed in other case.)
Home	Returns to the top page of Toshiba Places.
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 the pointer or the drag mode.

1 From the **Function** menu, press ◁ or ▷ to select **Pointer** and press **OK**.

2 If you select ☝, see "To use the Pointer: ON" on this page. If you select ✋, see "To use the Drag Mode" on this page.

To use the Pointer: ON:

1 Press ▽ or △ to select **Pointer: ON** and press **OK**.
- ☝ will appear.

2 Press ▽, △, ◁ or ▷ to the place where ☝ changes to 👆 and press **OK**.

Note:
When ***Pointer: OFF*** *is selected and* ▽, △, ◁ *or* ▷ *is pressed, the highlight moves to linked areas.*

To use the Drag Mode:

1 Press ▽ or △ to select **Pointer: ON** and press **OK**.

2 Press the **BLUE** button.

3 From the **Function** menu, press ◁ or ▷ to select **Pointer** and press **OK**.

4 Press ▽ or △ to select **Drag Mode** and press **OK**.
- ✋ will appear.

5 Press **OK** and ✋ changes to 🖐.

6 Press ▽, △, ◁ or ▷ to move the selected item in the desired place.

Switching the frame

1 From the **Function** menu, press ◁ or ▷ to select **Menu** and press **OK**.

2 Press ◁ or ▷ to select **Page Tasks**.

3 Select **Switch Frames** and press **OK**.

Setting the view feature

1 From the **Function** menu, press ◁ or ▷ to select **Menu** and press **OK**.

2 Press ◁ or ▷ to select **View**.

3 Press ▽ or △ to select the desired item and press **OK**.

4 Press ▽ or △ 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 with a size adjusted to exactly fit the suitable width for this 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.

To setup the Advanced Settings:

1 Press ▽, △, ◁ or ▷ to select the setting items and press **OK**. A check will appear in the box. To remove the check, press **OK** again.

2 Press ▽, △, ◁ or ▷ to select OK field and press **OK**.

Item	Description
Image	Sets display/non-display of images.
Table	Sets effect/non-effect of tables.
CSS	Sets effect/non-effect of CSS.
Japanese hyphenation	Sets effect/non-effect of the Japanese hyphenation.
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 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

1 From the Function menu, press ◁ or ▷ to select **Menu** and press **OK**.

2 Press ◁ or ▷ to select **Settings**.

3 Press ▽ or △ to select the desired item and press **OK**.

4 Press ▽ or △ to select the desired setting and press **OK**.

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

Notes:
- *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:

1 Press ▽ or △ to select **Security** in **Setting the other features** step 3.

2 Press ▽ , △, ◁ or ▷ to select **Root Certificates** or **CA Certificates**, and press **OK**.

3 Press ▽ or △ to select the desired certificate:
- When **OK** is pressed, a detailed information window will appear.
- When the **BLUE** button is pressed, **Disable** or **Enable** bar will appear. It changes whenever **BLUE** button is pressed.

4 Press **BACK**.

Using the Media Player

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

Notes:
- *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** (☞ page 55).*

Media Player Specifications

Device

USB device

Interface version: USB 2.0 HS

USB Mass Storage Class devices (MSC)

Notes:
- *Connectivity is not guaranteed for all devices.*
- *USB Hub will not be properly operated.*

DLNA CERTIFIED™ Server: Your PC (for example)

File System: FAT16 and FAT32

Maximum memory size: Unlimited

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 a 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.

Setting the Auto Start:

1 From the **Media Player** menu, press △.

2 Press ◁ or ▷ to select **Media Player Setup** and press **OK**.

3 Press ▽ or △ to select **USB Auto Start** and press ◁ or ▷ to select **On** or **Off**.

Media Player Setup		
USB Auto Start	◄ On	►
DivX® VOD		
Media Server Setup		

Auto Start:

1 Insert USB device into the USB socket on the left side of the TV. A prompt will appear.

2 Press ◁ or ▷ to select **Yes** and press **OK**.

3 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:

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

2 From the **Media Player** menu and press **OK**.

3 Press ◁ or ▷ to select **Photo**, **Movie** or **Music** and press **OK**.

Selecting a file in the list of content:

1 Press ▽, △, ◁ 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.

Closing the Media Player:

1 Press **EXIT**.

Using the Media Player with a DLNA CERTIFIED™ Server

You need to configure a home network before using this feature (☞ page 49).

1 From the **Media Player** menu and press **OK**.

2 Press ▽ or △ to select **Photo**, **Movie**, or **Music** 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. Select the server you want to use, and press **OK**.*

3 Press ▽ or △ to select a DMS if the selection window is displayed.

Selecting a file in the list of content:

1 Press ▽ 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.

Closing the Media Player:

1 Press **EXIT**.

Displaying the device information:

1 Press **QUICK** to open the **Quick Menu** in list mode or Multi View mode.

2 Press ▽ or △ to select **Device Information**.

Setting DLNA CERTIFIED™ Server waking up:
You only need to complete the Media Server Setup if you wish to use the "Wake-on-LAN" feature.

1 From the **Media Player** menu, press △.

2 Press ◁ or ▷ to select **Media Player Setup** and press **OK**.

3 Press ▽ or △ to select **Media Server Setup** and press **OK**. A list of currently available DMSs will appear.

4 Press ▽ or △ to select the desired device and press **OK**. A check will appear in the box. To remove the check, press again.

5 Press ▷ to select **Done** and press **OK** to save.

Notes:
- *Up to 8 DMSs can be selected.*
- *If the device is checked, it will still be displayed (with grey out) in the Select Device window, even if it is currently powered off. When **OK** is pressed with the highlight on a greyed out item, a confirmation window for Wake-on-LAN will be displayed. If Yes is selected, the TV will attempt to power up ("wake up") the DMS. If the server supports Wake-on-LAN, it will start up.*
- *When several DMSs are connected, it may take some time for the list to be displayed.*
  The following operations may help to improve the display time.
  - *Close the device selection window, and open it again.*
  - *Press the **RED** button to update the list.*

Viewing photo files

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.

1 Press ▽, △, ◁ or ▷ to move the highlight in one window. If all of the photos will not fit in one screen, when pressing ◁ at the top left thumbnail, the screen will move to the previous page. Conversely, when pressing ▷ at the bottom right thumbnail, the screen will move to the next page.

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

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

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

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

1 Press ▷ to view the next photo. Press ◁ to view the previous photo.

2 Press △ to rotate the image 90° clockwise. Press ▽ to rotate the image 90° counterclockwise.

3 Press ⓘ 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.

2 Press ◁ / ▷ to view the previous/next photo.

3 Press ▽ or △ to rotate the photo.

4 Press ⓘ to display file status information.

Note:
Depending on the video resolution of the file, Picture Size may not be greyed out.

Settings Interval Time and Repeat:

1 Press **QUICK** to open the **Quick Menu**.

2 Press ▽ or △ to select **Interval Time** or **Repeat**.

3 Press ◁ or ▷ to adjust the setting and press **OK**.

Selecting the Shuffle mode:

1 From the **Quick Menu**, press ▽ or △ to select **Shuffle**.

2 Press ◁ or ▷ to select **On** or **Off**.

Selecting Background Music:

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

2 Press ▽ to select **Select Music** and press **OK**.

3 Press ▽ or △ to select **Background Music** and press **OK**.

4 Press ▽ or △ to select **Background Music** and press ◁ or ▷ to select **On**.

5 Select a music.

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

Sorting the folders and files

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

2 Press ▽ or △ to select **Sort**.

3 Press ◁ or ▷ to select **File Name** or **Title**, **New**, **Old** to set the sorting rule.

Item	Description
File Name (USB) or **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
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.

Displaying the device information

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

2 Press ▽ or △ to select **Device Information**.

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

Closing the Photo Viewer

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

File Compatibility
See page 68.

Viewing movie files (on a DLNA CERTIFIED™ Server or USB device)
You can select movies from a list of available files.

Movie list example

1 Press ▽ or △ to select a file or folder. **P∨** or **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.

3 With the desired file selected, press **OK** or ▶ to start playback.

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

4 Press ■ to stop playback.

Notes:
• *Depending on the file size, it may take some time to start playback.*
• *If playback finishes before* ■ *is pressed, the screen will return to the list.*

During playback:
• Press ❙❙ / ❙❙▶ 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 content, DMC or DMS.

• To resume normal playback, press ▶.

• To play in fast reverse or fast forward directions, press ◀◀ or ▶▶ during playback. Each time you press the ◀◀ or ▶▶, the playback speed will change. ◀◀ or ▶▶ may not be available depending on the content, DMC or DMS.

• To locate a specific file, press ◀◀ or ▶▶ repeatedly.

• Press ⓘ⁺ to display the file status information.

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

Selecting subtitle and audio languages
• Press **SUBTITLE** repeatedly to select your preferred subtitle language.
• Press ◯I/II repeatedly to select your preferred audio language.
• Depending on the content data will not be operated.

Setting the repeat mode

1 Press **QUICK** to open the **Quick Menu**.

2 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.

3 Press **BACK**.

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

Sorting the folders and files

1 Press **QUICK** to open the **Quick Menu** in list mode.

2 Press ▽ or △ to select **Sort**.

3 Press ◁ or ▷ to select **File Name** or **Title**, **New**, **Old** to set the sorting rule.

Item	Description
File Name (USB) or **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
New	From new to old according to the date and time when contents were updated.
Old	From old to new according to the date and time when contents were updated.

Note:
Sorting may not be supported by some DMSs.

Displaying the device information

1 Press **QUICK** to open the **Quick Menu** in list mode.

2 Press ▽ or △ to select **Device Information**.

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

Registering 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.

1 From the **Media Player** menu, press △.

2 Press ◁ or ▷ to select **Media Player Setup** and press **OK**.

3 Press ▽ or △ to select **DivX® VOD** and press **OK**.

DivX® VOD
DivX® VOD Registration
DivX® VOD Deactivation

4 Press ▽ or △ to select **DivX® VOD Registration** and press **OK**.

5 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.

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

Deactivating your device

1 In step 3 above, select **DivX® VOD Deactivation** and press **OK**.

2 A confirmation screen will appear. Select **Yes** and press **OK**.

3 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. When ▶▶| is pressed twice in succession at the last chapter, playback will skip to the beginning of the next content.

Press |◀◀ to skip to the beginning of the current chapter. When |◀◀ is pressed twice in succession, it will skip to the beginning of the previous chapter. If |◀◀ is pressed twice in succession at the first chapter, stop playing the current content and skip to the beginning of the previous content.

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

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

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

Using Multi Title and Alternative Timelines Multi Title
DivX Plus HD files may contain up to 100 titles.

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

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

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

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

Closing the Movie Viewer

1 Press **EXIT**.

File Compatibility

See page 68.

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

1 Press ▽ or △ to select a file or folder. **P∨** or **P∧** buttons can be used to page up/down the music 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.

3 With the desired file selected, press **OK** or ▶ to start playback. It is played in full screen mode. Press the RED button, the screen will return to the list playing the playback (USB only).

4 Press ■ to stop playback.

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

During playback:
* Press ❚❚ / ❚❚▶ to pause.
* To resume normal playback, press ▶.
* 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 content, DMC or DMS.
* To play in fast reverse or fast forward directions, press ◄◄ or ►► during playback. Each time you press ◄◄ or ►►, the playback speed will change. ◄◄ or ►► may not be available depending on the content, DMC or DMS.
* To locate a specific file, press ◄◄ or ►►◄ repeatedly.
* Press ⓘ₊ to display the file status information.

Notes:
* *The information may not be correctly displayed depending on the content, DMC or DMS.*
* *During playback, you can adjust the **Sound** menu function from the **Quick Menu**.*

Setting the repeat mode:

1 Press **QUICK** to open the **Quick Menu**.

2 Press ◁ or ▷ to select **Off**, **All** or **1**.

Mode	Description
Off	USB: Files in the same folder are played back once. It will automatically move on the next files. DMS: A file is played back once.
All	Files in the same folder are repeatedly played back.
1	The same file is repeatedly played back.

3 Press **BACK** .

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

Selecting the Shuffle mode:

1 From the **Quick Menu**, press ▽ or △ to select **Shuffle**.

2 Press ◁ or ▷ to select **On** or **Off**.

Sorting the folders and files

1 From the **Quick Menu**, press ▽ or △ to select **Sort**.

2 Press ◁ or ▷ to select **Fire Name** or **Title**, **New**, **Old** to set the sorting rule.

Item	Description
File Name (USB) or **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
New	From new to old according to the date and time when contents were updated.
Old	From old to new according to the date and time when contents were updated.

Note:
Sorting may not be supported by some DMSs.

Displaying the device information

1 Press **QUICK** to open the **Quick Menu** in list mode.

2 Press ▽ or △ to select Device Information.

Note:
When the music is located on a USB device or when the TV is used as a DMR, this feature is not available.

Displaying the file status information

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

2 Press **i+** again to remove the information.

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

Closing the Music Player:

1 Press **EXIT**.

File Compatibility

See page 68.

Using the Photo Frame feature

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

• You can overwrite the pre-installed file with a file from your USB storage device or DLNA CERTIFIED™ server .

To open Photo Frame set up

Open from Menu

1 From the **Preferences** menu, select press ▽ or △ to **Photo Frame Setup**.
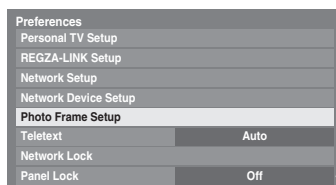
2 Press **OK**. The preview screen will appear.
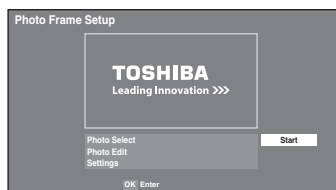
3 Press ▷ to select **Start** and press **OK** to open **Photo Frame**.

To open Photo Frame

Open from Menu

1 From the **Function** menu, press △.

2 Press ◁ or ▷ to select **Photo Frame** and press **OK** to open **Photo Frame**.

To close Photo Frame

1 Press **EXIT**.

Setting the features

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

Photo Select

1 From the **Photo Frame Setup** menu, press ▽ or △
to select **Photo Select** and press **OK**.
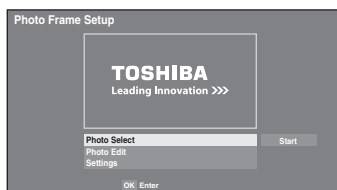
2 If the device selection screen appears, press ▽ or △
to select the appropriate device and press **OK**.

3 Press ▽, △ ◁ or ▷ to select the photo you want
to copy from the USB storage device or DLNA
CERTIFIED™ server to the TV's flash memory and
press **OK**.

Photo Edit

1 Press ▽ or △ to select **Photo Edit** and press **OK**.

2 Press ▽ or △ to select **Rotate** or **Delete**.

3 Set the following items as desired.

   Rotate : Press **OK** to rotate the image 90° clockwise.

   Delete : Press ▽ or △ to select **Delete** and tpress
   OK .
   A confirmation message will appear. Select
   Yes, and press **OK**.

4 Press **BACK**.

Settings

1 Press ▽ or △ to select **Settings** and press **OK**.

2 Press ▽ or △ to select **Clock**, **Position** or **Auto
Power Off**.
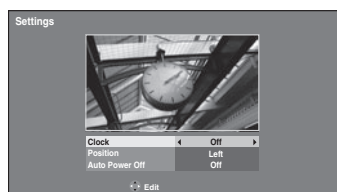
3 Set the following items as desired.

   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 Photo Frame is started and left active, the TV will
   automatically turn off after the set length of time
   (maximum 12 hours).

4 Press **BACK**.

5 Select **Start** and press **OK**.

Notes:
* *The clock display will only appear when time from
  a digital broadcast is available.*
* *The photo and settings items are moved by 4 dots
  every 5 minutes to prevent screen burn-in.*
* *The pre-installed photo file is stored in the TV's
  flash memory before shipment.*
* *Depending on the video resolution of the file,
  Picture Size may be greyed out.*

Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the symptom and some solutions.

Symptom and solution

TV will not turn on
- Make sure the power cord is plugged in and press ⏻/❘ or ⏻.
- The remote control batteries may be dead.
  Replace the batteries.

No picture, no sound
- Check the antenna connections.

No sound, picture OK
- The sound may be muted. Press ⊿+, ⊿− or ⌦.
- The station may have broadcast difficulties.
  Try another channel.

Poor sound, picture OK
- The station may have broadcast difficulties.
  Try another channel.

Poor picture, sound OK
- Check the aerial connections.
- The station may have broadcast difficulties.
  Try another channel.
- Adjust the **Picture** menu.

Poor reception of broadcast channels
- Check the aerial connections.
- The station may have broadcast difficulties.
  Try another channel.
- Make sure the **Colour system** is properly set.

Teletext problems
- Check the aerial connections.
  Good performance of text depends on a good strong broadcast signal.

Multiple images
- The station may have broadcast difficulties.
  Try another channel.
- Aerial reception may be poor.
  Use a high directional outdoor aerial.
- Check if the direction of the antenna has changed.

Poor colour or no colour
- The station may have broadcast difficulties.
 Try another channel.
- Adjust the **Tint** and/or **Colour** in the **Picture** menu.

The remote control does not operate
- Remove all obstructions between the remote control and the remote control sensor on the TV.
- The remote control batteries may be dead.
  Replace them with new ones.

Some pixels on the screen do not light up
- The LCD display panel is manufactured using an extremely high level of precision technology, however, sometimes some pixels on the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

The picture brightness varies when you switch the TV on.
- If you switch the TV on at 0°C or below, wait until it warms up.

No REGZA-LINK operation
- The REGZA-LINK feature is available for Toshiba REGZA-LINK compatible devices.
- Make sure HDMI cables with the HDMI logo are used.
- When a connected REGZA-LINK device does not work correctly after you have changed device settings, turn off your TV and unplug the power cord. Then, plug the TV in and turn on again.
- If several devices are connected, the REGZA-LINK feature may not operate properly.
- Read the owner's manual furnished with the connected REGZA-LINK device.

Symptom and solution - digital -

Poor picture
- Check the aerial connections. Make sure it is aligned to the correct broadcast direction.
- Check the signal level and quality in the **DTV Manual Tuning** menu.
- If you use any kind of amplifier to boost the signal level, check whether it is working correctly, and ask for help from the aerial installer.

No picture
- Use the **DTV Manual Tuning** menu to rescan this channel.
- Try another channel.
- Reduce **RF** amplifier gain if connected to **RF** booster.

No sound from DIGITAL AUDIO
- The sound may be muted. Press ⊿+, ⊿− or ⌦.
- Use the **DTV Manual Tuning** menu to rescan this channel.
- Try another channel.

Not all channels are available after Auto Tuning when tuning the TV for the first time.
- This symptom is caused by unexpected frequency offset.
- Use the **DTV Manual Tuning** menu to scan for the missing channels. Once the TV picks up the signal, all the transmission parameters will be stored in internal memory.

Cannot lock signal when using Manual Tuning
- Refer to the solutions for "Poor picture".

No Teletext, no Subtitles
- Make sure the channel that you are watching carries Teletext/Subtitles information by checking the on-screen information.

Cannot receive channels after moving the TV between cities (e.g. from Melbourne to Sydney)
- Refer to page 13 to reset data.

Programme Timer does not operate properly.
- Check the aerial connections.
- Weak signal may cause inaccurate time information.

Do not remember PIN (See the PIN Setting menu step 1)
- Use the Master PIN (code of 1276), then change to a number of your choice. Ensure that no-one else can use the Master PIN by removing the Owner's Manual.

APPENDIX

PARENTAL GUIDANCE CODES (Normative)

Recommended On-Screen-Display for parental guidance codes transmitted within DVB-SI EIT information using the DVB parental_rating_descriptor.

Transmitted rating hex code	Australian parental guide code	On-Screen-Display	Receiver Menu Set-up and Suggested OSD wording for Setting Blocking (Restriction of access)							
			Block all	Block G and above (optional)	Block PG and above	Block M and above	Block MA and above	Block AV and above	Block R and above	None
			Resultant receiver action to received hex code ✓ is show programme - ✗ is block until PIN entered							
0 × 00	Not Classified	–	✗	✓	✓	✓	✓	✓	✓	✓
0 × 01		–	✗	✓	✓	✓	✓	✓	✓	✓
0 × 02	**P** Pre school	**P**	✗	✓	✓	✓	✓	✓	✓	✓
0 × 03		P	✗	✓	✓	✓	✓	✓	✓	✓
0 × 04	**C** Children's	**C**	✗	✓	✓	✓	✓	✓	✓	✓
0 × 05		C	✗	✓	✓	✓	✓	✓	✓	✓
0 × 06	**G** General	**G**	✗	✗	✓	✓	✓	✓	✓	✓
0 × 07		G	✗	✗	✓	✓	✓	✓	✓	✓
0 × 08	**PG** Parental Guidance Recommended	**PG**	✗	✗	✗	✓	✓	✓	✓	✓
0 × 09		PG	✗	✗	✗	✓	✓	✓	✓	✓
0 × 0A	**M** Mature Audience 15+	**M**	✗	✗	✗	✗	✓	✓	✓	✓
0 × 0B		M	✗	✗	✗	✗	✓	✓	✓	✓
0 × 0C	**MA** Mature Adult Audience 15+	**MA 15+**	✗	✗	✗	✗	✗	✓	✓	✓
0 × 0D		MA 15+	✗	✗	✗	✗	✗	✓	✓	✓
0 × 0E	**AV** Adult Audience, Strong violence 15+	**AV 15+**	✗	✗	✗	✗	✗	✗	✓	✓
0 × 0F	**R** Restricted 18+	**R**	✗	✗	✗	✗	✗	✗	✗	✓

Media Player Supported Format

Media Player	Media Format	File Extension	Video/Audio codec	USB	DMS	Note

Photo	JPEG	.jpg
		.jpeg
			JPEG	yes	yes	<USB>
						Data compatibility: JPEG Exif ver 2.2
						Maximum viewable resolution:
						  4096 × 4096 (HW decode)
						  16384 × 16384 (SW decode)
						Maximum photo size: 9 MB
						Maximum number of files: 2000 / folder
						<DMS>
						Data compatibility: JPEG EXIF Ver.1.x or later, JFIF 1.02a
						Maximum photo resolution: 4096 x 4096
						Maximum photo size: 6 MB
						Maximum number of files: 2000 per folder

Movie	MPEG-2 PS MPEG-2 TS	.mpg .mpeg .ts	Video) MPEG-1 Video	yes	no	<USB> Maximum number of files: 2000 per folder <DMS> Maximum number of files: 2000 per folder *) Some files may not be played. *) Normal playing or trick playing may not be done depending on the content. *) DivX external subtitles are not support.
			Video) MPEG-2 Video H.264 (MPEG-4 AVC)	yes	yes	
			Audio) MPEG-1 Layer1 MPEG-1 Layer2 MPEG-2 Layer2 Dolby Digital (AC-3) L-PCM	yes	yes	
			Audio) Dolby Digital Plus AAC HE AAC	yes	no	
	MP4	.mp4 .m4v	Video) H.264 (MPEG-4 AVC)	yes	yes	
			Audio) AAC	yes	yes	
			Audio) HE AAC Dolby Digital (AC-3) Dolby Digital Plus	yes	no	
	AVI DivX DivX Plus HD	.avi .divx .div	Video) DivX (3,4,5,6)	yes	no	
			Audio) Dolby Digital (AC-3) MPEG-1 Layer 3 MPEG-1 Layer 2	yes	no	
	MKV DivX Plus HD	.mkv	Video) H.264	yes	no	
			Audio) AAC HE AAC Dolby Digital (AC-3) MPEG-1 Layer 3	yes	no	
	AVCHD	.mts .m2ts	Video) H.264 (MPEG-4 AVC)	yes	yes	
			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 per folder <DMS> Maximum number of files: 2000 per folder *) Some files may not be played.
	MP4	.mp4 .m4a	Audio) AAC	yes	no	
			Audio) HE AAC	yes	no	
	L-PCM		Audio) L-PCM	no	yes	

Bandwidth

7 MHz and Proposed 8 MHz Channel Frequencies
BAND III

Australian 7 MHz Designated Channel Number	7 MHz Channel Frequency Limits (MHz)	7 MHz Digital Channel Centre Freq (MHz)	8 MHz Designated Channel Number	8 MHz Channel Frequency Limits (MHz)	8 MHz Digital Channel Centre Freq (MHz)
6	174-181	177.5	6	174-182	178
7	181-188	184.5	7	182-190	186
8	188-195	191.5	8	190-198	194
9	195-202	198.5	9	198-206	202
9A	202-209	205.5			
10	209-216	212.5	10	206-214	210
11	216-223	219.5	11	214-222	218
12	223-230	226.5	12	222-230	226

BAND III

Australian 7 MHz Designated Channel Number	7 MHz Channel Frequency Limits (MHz)	7 MHz Digital Channel Centre Freq (MHz)	8 MHz Designated Channel Number	8 MHz Channel Frequency Limits (MHz)	8 MHz Digital Channel Centre Freq (MHz)
27	519-526	522.5	27	518-526	522
28	526-533	529.5	28	526-534	530
29	533-540	536.5	29	534-542	538
30	540-547	543.5	30	542-550	546
31	547-554	550.5	31	550-558	554
32	554-561	557.5	32	558-566	562
33	561-568	564.5	33	566-574	570
34	568-575	571.5	34	574-582	578
35	575-582	578.5	35	582-590	586
36	582-589	585.5	36	590-598	594
37	589-596	592.5	37	598-606	602
38	596-603	599.5	38	606-614	610
39	603-610	606.5	39	614-622	618
40	610-617	613.5	40	622-630	626
41	617-624	620.5	41	630-638	634
42	624-631	627.5	42	638-646	642
43	631-638	634.5	43	646-654	650
44	638-645	641.5	44	654-662	658
45	645-652	648.5	45	662-670	666

Australian 7 MHz Designated Channel Number	7 MHz Channel Frequency Limits (MHz)	7 MHz Digital Channel Centre Freq (MHz)	8 MHz Designated Channel Number	8 MHz Channel Frequency Limits (MHz)	8 MHz Digital Channel Centre Freq (MHz)
46	652-659	655.5	46	670-678	674
47	659-666	662.5	47	678-686	682
48	666-673	669.5	48	686-694	690
49	673-680	676.5	49	694-702	698
50	680-687	683.5	50	702-710	706
51	687-694	690.5	51	710-718	714
52	694-701	697.5	52	718-726	722
53	701-708	704.5	53	726-734	730
54	708-715	711.5	54	734-742	738
55	715-722	718.5	55	742-750	746
56	722-729	725.5	56	750-758	754
57	729-736	732.5	57	758-766	762
58	736-743	739.5	58	766-774	770
59	743-750	746.5	59	774-782	778
60	750-757	753.5	60	782-790	786
61	757-764	760.5	61	790-798	794
62	764-771	767.5	62	798-806	802
63	771-778	774.5	63	806-814	810
64	778-785	781.5	64	814-822	818
65	785-792	788.5			
66	792-799	795.5			
67	799-806	802.5			
68	806-813	809.5			
69	813-820	816.5			

FREEVIEW™ Australia Digital TV Receiver Specification
Phase 2- V 1.0

Signal Class Table

C mode

OSD	RF Frequency [MHz]
C2	48.25
C3	55.25
C4	62.25
C5	175.25
C6	182.25
C7	189.25
C8	196.25
C9	203.25
C10	210.25
C11	217.25
C12	224.25
C21	471.25
C22	479.25
C23	487.25
C24	495.25
C25	503.25
C26	511.25
C27	519.25
C28	527.25
C29	535.25
C30	543.25
C31	551.25
C32	559.25
C33	567.25
C34	575.25
C35	583.25
C36	591.25
C37	599.25
C38	607.25
C39	615.25
C40	623.25
C41	631.25
C42	639.25
C43	647.25
C44	655.25
C45	663.25
C46	671.25
C47	679.25

OSD	RF Frequency [MHz]
C48	687.25
C49	695.25
C50	703.25
C51	711.25
C52	719.25
C53	727.25
C54	735.25
C55	743.25
C56	751.25
C57	759.25
C58	767.25
C59	775.25
C60	783.25
C61	791.25
C62	799.25
C63	807.25
C64	815.25
C65	823.25
C66	831.25
C67	839.25
C68	847.25
C69	855.25

S mode

OSD	RF Frequency [MHz]
S1	105.25
S2	112.25
S3	119.25
S4	126.25
S5	133.25
S6	140.25
S7	147.25
S8	154.25
S9	161.25
S10	168.25
S11	231.25
S12	238.25
S13	245.25

OSD	RF Frequency [MHz]
S14	252.25
S15	259.25
S16	266.25
S17	273.25
S18	280.25
S19	287.25
S20	294.25
S21	303.25
S22	311.25
S23	319.25
S24	327.25
S25	335.25
S26	343.25
S27	351.25
S28	359.25
S29	367.25
S30	375.25
S31	383.25
S32	391.25
S33	399.25
S34	407.25
S35	415.25
S36	423.25
S37	431.25
S38	439.25
S39	447.25
S40	455.25
S41	463.25
S51	69.25
S52	76.25
S53	83.25
S54	90.25
S55	97.25

Specifications

Integrated Digital LCD TV

Model
32SL800A, 42SL800A, 46SL800A

Power source
AC 220 V-240 V, 50 Hz

Power consumption
32SL800A: 87 W, 0.3 W (standby)
42SL800A: 112 W, 0.2 W (standby)
46SL800A: 134 W, 0.2 W (standby)

Dimensions
32SL800A: 752 mm (W) 526 mm (H) 258 mm (D)
42SL800A: 989 mm (W) 675 mm (H) 287 mm (D)
46SL800A: 1,078 mm (W) 726 mm (H) 287 mm (D)

Mass (Weight)
32SL800A: 13.0 kg
42SL800A: 20.5 kg
46SL800A: 23.0 kg

Analogue TV system (Aerial input)
Channel Coverage:

PAL	B/G	(CCIR)	VHF	2 - 12
			UHF	21 - 69
			CATV	X - Z+2, S1 - S41
PAL	I	(UK)	VHF	-
			UHF	21 - 69
			CATV	-
PAL D/K (CHINA)			VHF	1 - 12
			UHF	13 - 56
			CATV	Z1 - Z38
SECAM	B/G	(CCIR)	VHF	2 - 12
			UHF	21 - 69
			CATV	X - Z+2, S1 - S41
SECAM	D/K	(OIRT)	VHF	1 - 12
			UHF	21 - 69
			CATV	X1 - X19
SECAM	L (FRANCE)		VHF	F1-F10, B-Q
			UHF	F21-F69

Special RF signal:
NTSC 4.43 colour system 5.5/6.0/6.5 MHz sound system

PAL 60 Hz colour system 5.5/6.0/6.5 MHz sound system

Digital TV System
Compliant Standard	DVB-T
Video Decoding	MP @ ML & MP @ HL
Audio Decoding	Dolby® Digital, MPEG (I & II)
Audio Sampling Rate	32, 44.1, 48 kHz

Digital TV Terrestrial Tuner / Demodulator
Frequency	51~858 MHz
Loop Through	51~858 MHz
Bandwidth	7, 8 MHz
Demodulator	COFDM
FFT Mode	2K, 8K
Constellation	QPSK, 16QAM, 64 QAM
Guard Interval	1/4, 1/8, 1/16, 1/32
Inner Coding Rate	1/2, 2/3, 3/4, 5/6, 7/8

COMPONENT VIDEO INPUT terminals (the signal format)
480i, 480p, 576i, 576p, 720p (50/60 Hz),
1080i (50/60 Hz)
(These signal formats are converted to match the number of pixels of the LCD panel.)

Colour system (analogue TV system)
PAL, SECAM, NTSC 3.58/4.43

Aspect ratio
16 : 9

Visible size (diagonal)
32SL800A: 80.1 cm
42SL800A: 106.7 cm
46SL800A: 116.8 cm

Number of pixels
1,920 (H) dots × 1,080 (V) dots

Audio power
10 W + 10 W

Speakers
Main   20 × 120 mm 2 pcs.

Input/Output terminals

⊡→(1)	Input	
	Phono jacks	A/V
	(use for the Scart/Phono jacks) (supplied)	
⊙(2)	Input	
	Component video	Y, P$_B$/C$_B$, P$_R$/C$_R$
	Phono jacks	Audio L + R
⊙(3)	Input	
	Phono jacks	A/V
⊙RGB/PC	Input	
	Mini D-sub 15 pin Analogue RGB	
⊙PC/HDMI 3 (AUDIO)	Input	
	3.5 mm (Diameter) stereo	
⊙HDMI 1	Input (type A)	
	19 pin	A/V Digital
⊙HDMI 2	Input (type A)	
	19 pin	A/V Digital
⊙HDMI 3	Input (type A)	
	19 pin	A/V Digital
⊙HDMI 4	Input (type A)	
	19 pin	A/V Digital

Dolby Digital
HDMI 1: HDMI (Audio Return Channel (ARC), Content Type)
HDMI 2-4: HDMI (Content Type)

↪ Digital Audio (optical)	Output Bitstream/PCM
Headphone jack	3.5 mm (Diameter) stereo
LAN port	RJ-45
USB 1-2 port	Media Player Interface version: USB 2.0 USB class: Mass Storage File system: FAT16 and FAT32
USB 2 port	Wireless LAN adaptor ready for a home network, IEEE802. 11 a/b/g/n compatible

Operating condition

Temperature	0°C - 35°C
Humidity	20% - 80% (No moisture condensation)

Supplied accessories

Owner's manual (1), Remote control (1), Batteries (2), Clip (1) (☞ page 3), Screw (1) (☞ page 3), Scart / Phono jacks adaptor (1) (☞ page 41) , Pedestal stand (1)

Optional accessories

TOSHIBA Dual Band WLAN Adaptor WLM-10U1 (RoHS) DA

• Design and specifications are subject to change without notice.

• Never service or remodel the TV by yourself. It may expose you to a fire hazard or dangerous voltages.

TOSHIBA CORPORATION