TOSHIBA
Leading Innovation >>>

OWNER'S MANUAL
Integrated Digital LCD TV

DOLBY DIGITAL **DOLBY VOLUME** **DIVX®** **SDHC™**

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

40XV700A
46XV700A

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/J   VX1A00176300

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.
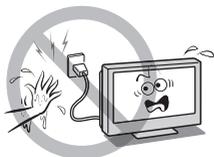
Installation

1) Always connect the power plug to an appropriate electrical outlet equipped with 220-240V, AC 50/60Hz.
Never use the TV outside the specified voltage range. It may cause a fire or an electric shock.

2) Never insert or remove the power plug with wet hands.
This may cause an electric shock.

3) 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.

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

4) 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.
- Never stand the TV on cloth or other material placed between the TV and supporting furniture.
- 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.
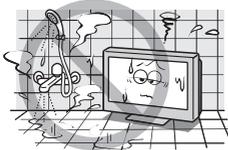

5) Never place the TV near a heater or in direct sunlight.
The surface of the cabinet or power cord may melt and result in a fire or an electric shock.

6) 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.

7) 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.

8) Install the TV in a horizontal, stable location. Connect between two clips on the back of the TV and a wall, pillar, etc., with a sturdy tie and clip of supplied accessories (☞ page 63).
- Use as short a tie as possible to ensure the TV is stable.
- 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.

Sturdy tie
(as short as possible)

Clip

Clip

Clip

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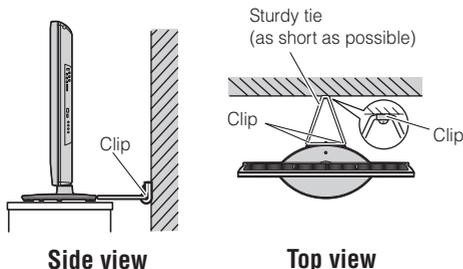
9) Precautions for moving the TV
- When moving the TV, be sure to remove the plug from the wall outlet and disconnect the aerial cable and audio/video cables, any steady ties. Fire or an electric shock may result if the power cord is damaged.
- When carrying the TV, at least two people are needed. Be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

10)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 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) 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.

5) 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.

6) 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.

7) 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.
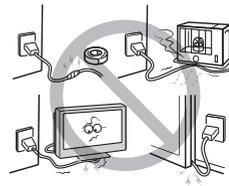
8) If there is thunder or lightning, never touch the aerial cable or other connected cables.
You may suffer an electric shock.

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.

5

2) When a malfunction occurs, or if smoke or an unusual odor 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 is still 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.
Note:
The lamp unit contains a small amount of mercury. Disposal of mercury may be regulated due to environmental considerations.
Dispose of the used lamp unit by the approved method for your area. For disposal or recycling information, please contact your local authorities.

Cleaning

1) Remove the power plug before cleaning.
Never use solvents such as benzine 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.

Clean here

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.

Exemptions

• Toshiba is not liable for any damage caused by fires, natural disaster (such as thunder, earthquake, etc.), acts by third parties, accidents, owner's misuse, or uses in other improper conditions.

• 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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• Audyssey EQ is based on the award-winning Audyssey MultEQ technology. It is the first-ever room equalization solution that can achieve optimum sound for a large listening area and it is featured in many high end home theater products.
Audyssey EQ is used in the TV tuning process to calculate an equalization solution that corrects time and frequency response problems in TV systems. This results in clear, rich sound with more intelligible dialog.

• Manufactured under license from Audyssey Laboratories. U.S. and foreign patents pending. Audyssey EQ is a registered trademark of Audyssey Laboratories.

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• DVB is a registered trademark of Digital Video Broadcasting Project.

• DivX® is a registered trademark of DivX, Inc., and it is used under license.
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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.

VHF **UHF** Outdoor aerial

Mixer

Decoder **Back of TV**

Media Recorder

Aerial cable (75 Ω coaxial)
(not supplied)

300 Ω twin-lead feeder

Aerial adaptor
(not supplied)

75 Ω
aerial
terminal

75 Ω coaxial cable

Plug
(not supplied)

75 Ω aerial
terminal
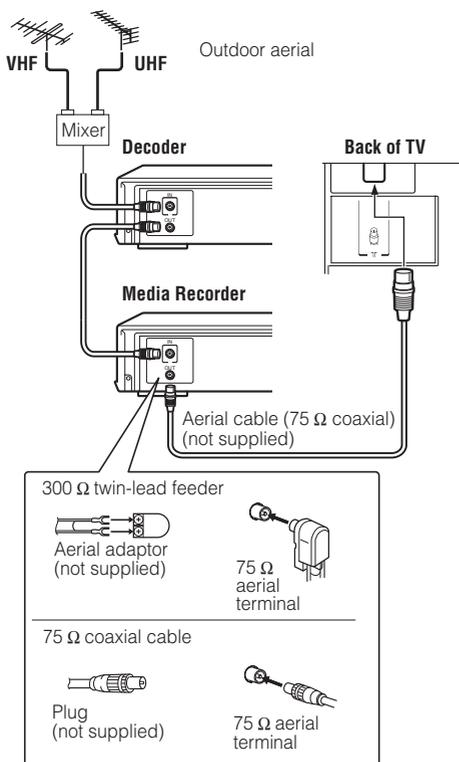
Exploring your new TV

Installing the remote control batteries

Remove the battery cover.
Insert two R03 (AAA) batteries matching the –/+ polarities of the battery to the –/+ marks inside the battery compartment.
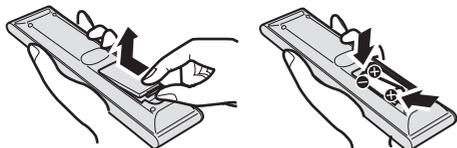
Cautions:
* *Dispose of batteries in a designated disposal area. Batteries must not be exposed to excessive heat such as sunshine, fire or the like.*
* *Attention should be drawn to the environmental aspects of battery disposal.*
* *Never mix battery types or combine used batteries with new ones.*

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

30°
30°
within 5 m
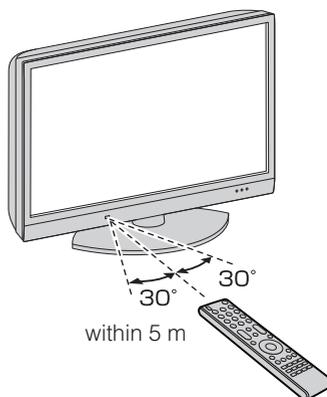
TV top, front and side panel controls

* You can operate your TV using the buttons on the side 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 39 – 56).
* For the use of each control, see the pages in brackets.

TV top view

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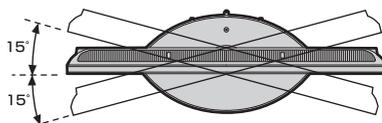
You can swivel the TV screen.
Swivel angle: 15 degrees to left and right.

TV front view

Brightness sensor
(☞ page 24)

14   *13* *12* *11*

Right side view

Headphones
(Not supplied)
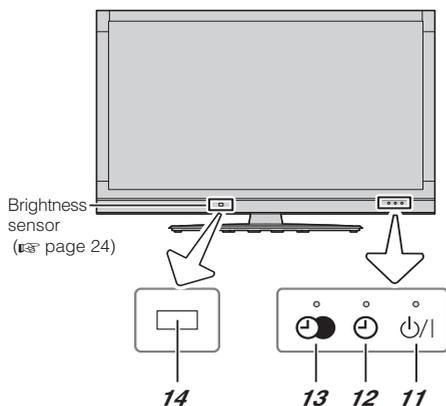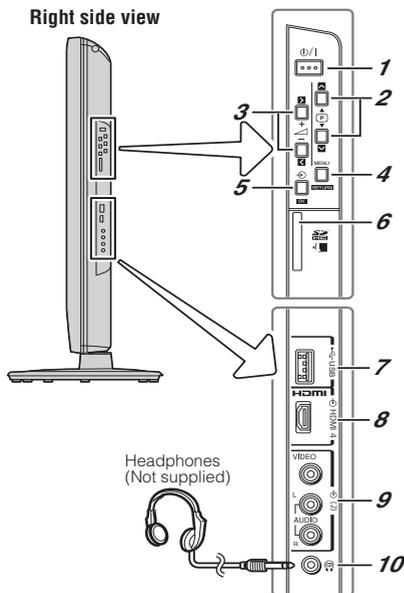
1   ⏻/I **(Power on/Standby)** — Press to turn the TV on/ standby (☞ page 13).

2   P▲▼ **(Programme position)** — When no menu is on-screen, these buttons select the programme position.(☞ pages 17, 19).
∧ ∨ **(MENU up/down)** — When a TV menu is on-screen, these buttons function as up/down menu navigation buttons (☞ page 15).

3   ⊿ – / + **(Volume)** — When no menu is on-screen, these buttons adjust the volume level.
‹ › **(MENU left/right)** — When a TV menu is on-screen, these buttons are used for left/right menu navigation and to adjust settings (☞ page 15).

4   **MENU** — Press to access the TV menu (☞ page 15).
RETURN — When a TV menu is on-screen, this button will take you back to the previous menu (☞ page 16).

5   ⊕ **(Input source selection)** — When no menu is on-screen, this button selects the input source (☞ page 30).
OK — When a TV menu is on-screen, this button will make a selection or take you to the next available menu layer (☞ page 15).

6   **SD card slot** — For use when inserting an SD Memory Card (☞ page 49).

7   **USB port** — For use when inserting a USB device (movies: DivX®, photo: JPEG, music: MP3) (☞ page 49).

8   ⊕ **HDMI 4 (input terminal)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device (☞ page 41).

9   ⊕ **(2) (Video 2 input terminals)** — Standard video and standard audio inputs (☞ page 40).

10 ⋒ **(Headphone jack)** — For use with headphones (☞ page 28).

11 ⏻/I **(Power LED)** — Power indicator (☞ page 13).

12 ⊕ **(On Timer LED)** — On Timer Indicator (☞ page 29).

13 ⊙ **(Programme Timer LED)** — Programme Timer Indicator (☞ page 29).

14 **(Remote sensor)** — Point the remote control toward this remote sensor (☞ page 8).

TV back panel connections

TV back view

Power cord

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.
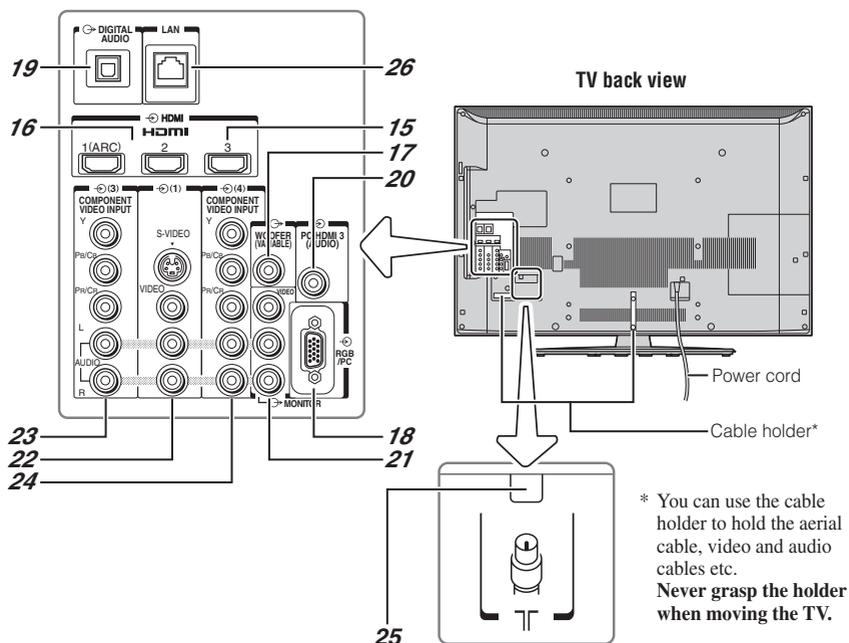
15 ⊸ **HDMI 3 (input terminal)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device (☞ page 41, 43).

16 ⊸ **HDMI 1(ARC) and** ⊸ **HDMI 2 (input terminals)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device (☞ page 41).

⊸ **HDMI 1(ARC) (input terminals)** — For use when connecting to a HDMI audio system (☞ page 41).

17 ⊖ **WOOFER (output terminal)** — For use when connecting a woofer system (variable) (☞ page 39).

18 ⊸ **RGB/PC (input terminal)** — For use when connecting a personal computer (PC) (☞ page 43).

19 ⊖ **DIGITAL AUDIO (OPTICAL) (output terminal)** — For use when connecting an amplifier with optical type digital audio input (☞ pages 39, 40).

20 ⊸ **PC/HDMI 3 (AUDIO) (input terminal)** — PC audio input terminal is shared with the HDMI 3 analogue audio input terminal, and their use can be configured in the **SETUP** menu (☞ pages 41, 43).

21 ⊖ **MONITOR (output terminals)** — Standard video and standard audio outputs (☞ page 39). No On-Screen-Display will output from these terminals.

22 ⊸ **(1) (Video 1 input terminals)** — Optional S-video or standard (composite) video and standard (analogue) stereo audio inputs (☞ page 39).

23 ⊸ **(3) (Video 3 input terminals)** — High-definition component video and standard (analogue) stereo audio inputs (☞ page 39).

24 ⊸ **(4) (Video 4 input terminals)** — High-definition component video and standard (analogue) stereo audio inputs (☞ page 39).

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

26 **LAN port** — For use when connecting to DLNA Certified products (☞ page 45).

Learning about the remote control

Location of controls

To select TV, REGZA-LINK or DVD mode

Number buttons (0-9) (☞ pages 17, 19)

To return to the previous programme (☞ page 19)

Volume – + (These buttons adjust the volume level.)

To display digital on-screen information (☞ page 36)

• Menu △▽◁▷ (☞ page 15)
• **OK** (☞ page 15)

• ⊡/▤ To display on-screen information (☞ pages 19, 20)
• ▤ Initial/index function for Teletext (☞ page 35)

Teletext control buttons (Four coloured buttons : Red, Green, Yellow, Blue) (☞ pages 34, 35)

TV REGZA-LINK DVD

Power on/Standby (☞ page 13)

Input source selection (TV, ⊖1 – ⊖4, HDMI 1 – HDMI 4, PC) (☞ page 30)

Sound mute (This button turns the sound off/on.)

Position ∧ ∨ (☞ pages 17, 19)

To access the Quick Menu (☞ pages 14, 15)

EXIT (☞ page 16)

To return to the previous menu (☞ page 16)

MENU
ROOT CONTENTS TOP DVD

AUDIO SET UP
◎I/II SUBTITLE ⊞ TEXT

MENU ATV/DTV LIST ▼
▲ ■ ► II/II►

≣? ≣∃ ≣⊞ ◎/⊠
I◄◄ ◄◄ ►► ►►I

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CT-90330

When using Toshiba DVD Player :
Press ▲ to EJECT
Press ■ to STOP
Press ► to PLAY
Press II/II► to PAUSE
Press I◄◄ to SKIP BACK
Press ◄◄ to REVERSE
Press ►► to FORWARD
Press ►►I to SKIP FORWARD

Press **DVD MENU** to display the menu of the DVD disc.

Press **TOP MENU** to display the title menu on the DVD disc.

Press **SET UP** to access the on-screen Setup menu for adjusting settings.

Press **AUDIO** to toggle between different audio modes.

Media Player function:
(☞ pages 52 – 54)
Press ■ to STOP
Press ► to PLAY
Press II/II► to PAUSE
Press I◄◄ to SKIP BACK
Press ◄◄ to REVERSE
Press ►► to FORWARD
Press ►►I to SKIP FORWARD

When in TV mode:
◎I/II Stereo/bilingual selection (☞ page 26)
SUBTITLE Subtitle on/off (☞ page 35)
⊞ Picture size (☞ page 21)
MENU MENU (☞ page 15)
ATV/DTV To switch between ATV (Analogue TV) and DTV (DTV TV/DTV RADIO/DTV TEXT)
LIST To display the Channel List (☞ page 30)
▼ Picture still (☞ page 22)

Teletext function:
TEXT Teletext on/Superimpose Teletext/off (☞ page 34)
≣? To reveal concealed text (☞ page 35)
≣∃ To hold a specific page (☞ page 35)
≣⊞ To enlarge the teletext display size (☞ page 35)
◎/⊠ To select a page while viewing a normal picture (☞ page 35)
To select the time display - analogue only - (☞ page 35)

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

Location of controls for REGZA-LINK mode

Set to REGZA-LINK

Number buttons for the device

To mute AV amplifier

To change volume of AV amplifier

To operate menu

To display information

To operate each menu

To display Set Up menu

To select audio mode

To turn the device On/Off

To select input from external source

Position ∧ / ∨

To exit menu

To return to previous menu accessed

Picture size selection

MENU

Press ▲ to EJECT
Press ■ to STOP
Press ► to PLAY
Press ▮▮/▮▮► to PAUSE
Press ▮◄◄ to SKIP BACK
Press ◄◄ to REWIND
Press ►► to FAST FORWARD
Press ►►▮ to SKIP FORWARD

TOSHIBA
CT-90330

The REGZA-LINK mode switch on the TV remote control allows control of the connected REGZA-LINK device being watched. (☞ page 33)

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 right side 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** *(For the system of each country or region, refer to page 17).*

Switching off the TV

1 Press ⏻ on the remote control or ⏻/❘ on the TV right side 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 30) is executed.

```
Menu Language
◄              English              ►
```

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

3 Press (OK) to display the **Country** menu, press ▽ or △ to select **Australia** or **New Zealand**.

New Zealand:

Time Zone and **Bandwidth** menu are not available.

Note:
The **Country** *menu can also be displayed at any time from the* **SETUP** *menu.*

4 Press (OK), to display the **Time Zone** menu, and then 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              ►
```
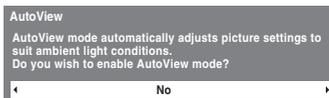
Store mode:
- A confirmation menu will appear.
- **AutoView** menu is not available.

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 22).
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 60). Then, press ▽ to select **Start Scan**, and then press (OK). You must allow the TV to complete the search.

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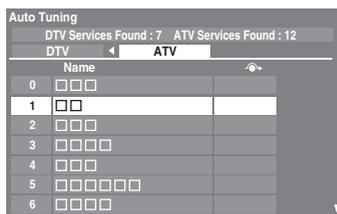
When the search is complete, the TV will automatically select position one.

13

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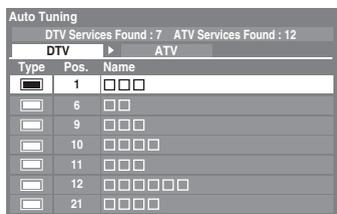
9 Press ◁ or ▷ to view the **DTV** (digital channel) or **ATV** (analogue channel) lists.

Auto Tuning	
DTV Services Found : 7 ATV Services Found : 12	
DTV ◀ ATV	
Name	⊸⊙⊸
0	☐☐☐
1	☐☐
2	☐☐☐
3	☐☐☐☐
4	☐☐☐
5	☐☐☐☐☐☐
6	☐☐☐☐

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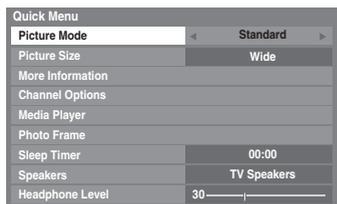
Note:
*The **Quick Setup** menu can also be displayed at any time from the **SETUP** menu.*

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
More Information	
Channel Options	
Media Player	
Photo Frame	
Sleep Timer	00:00
Speakers	TV Speakers
Headphone Level	30———ı—

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 22.
	Picture Size	☞ page 21.
	More Information	☞ page 20.
	Channel Options	☞ page 36.
	Media Player	☞ page 48.
	Photo Frame	☞ page 55.
	Sleep Timer	☞ page 30.
	Speakers	☞ page 33.
	Headphone Level	☞ page 28.
When using EPG	Genre Colour	☞ page 36.
	EPG Update/Cancel EPG Update	☞ page 36.
When using Media Player (Photo Multi View, List View)	Sort	☞ page 51.
	Interval Time	☞ page 51.
	Repeat	☞ page 51.
	Device Information	☞ page 51.
When using Media Player (Photo Single View, Slide Show)	PICTURE	☞ page 23.
	Picture Size	☞ page 21.
	Interval Time	☞ page 51.
	Repeat	☞ page 51.
	Sleep Timer	☞ page 30.
When using Media Player (Photo Play DMR)	PICTURE	☞ page 23.
	Picture Size	☞ page 21.
	Sleep Timer	☞ page 30.
When using Media Player (Movie List)	Sort	☞ page 52.
	Repeat	☞ page 52.
	Device Information	☞ page 52.
When using Media Player (Movie Play)	PICTURE	☞ page 23.
	Picture Size	☞ page 21.
	SOUND	☞ page 26.
	Repeat	☞ page 52.
	Sleep Timer	☞ page 30.
	Speakers	☞ page 33.
	Headphone Level	☞ page 28.
When using Media Player (Movie Play DMR)	PICTURE	☞ page 23.
	Picture Size	☞ page 21.
	SOUND	☞ page 26.
	Sleep Timer	☞ page 30.
	Speakers	☞ page 33.
	Headphone Level	☞ page 28.

| Mode	Quick menu item	Description
When using Media Player (Music List DLNA)	SOUND	☞ page 26.
	Sort	☞ page 54.
	Repeat	☞ page 54.
	Speakers	☞ page 33.
	Headphone Level	☞ page 28.
	Device Information	☞ page 54.
When using Media Player (Music Play DLNA)	SOUND	☞ page 26.
	Repeat	☞ page 54.
	Sleep Timer	☞ page 30.
	Speakers	☞ page 33.
	Headphone Level	☞ page 28.
When using Media Player (Music Play DMR)	SOUND	☞ page 26.
	Sleep Timer	☞ page 30.
	Speakers	☞ page 33.
	Headphone Level	☞ page 28.
When using Photo Frame	PICTURE	☞ page 23.
	Picture Size	☞ page 21.

Learning about the menu system

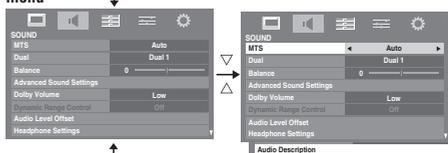We suggest you familiarize yourself with the display charts before using the menu system:

- Press **MENU** to display menu, and then press ◁ or ▷ to select main menu headings.
- Press ▽ or △ to select an item.
- Press ◁ or ▷ to select or adjust a setting.
- Press (OK) to display the next menu.

Displaying the menu chart
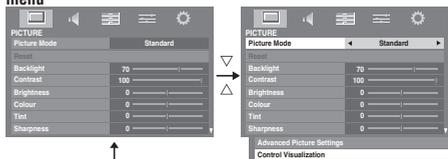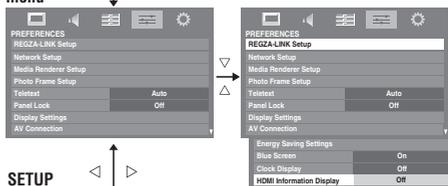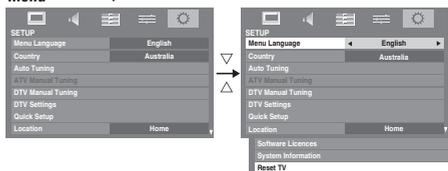
Notes :

- *The same menu is displayed in DTV (Digital TV) and ATV (Analogue TV) modes; however, some items are greyed out in each case.*
- *In video input mode (⊕1 - ⊕4 and **HDMI**), **Auto Tuning**, **ATV Manual Tuning**, **DTV Manual Tuning**, **Quick Setup** and **DTV Settings** are not available. (☞ page 31).*
- *If you do not make a selection for a while, the menu display disappears automatically.*
- *If you want to close the menu display instantly, press (EXIT) or **MENU**.*
- *To return to the previous menu, press (RETURN).*
- *In PC input mode, **PC Settings** is available in the **Display Settings** menu (☞ page 44).*
- *When the **3D Colour Management** function is set to on (☞ page 24), you can select **Base Colour Adjustment** in the **Advanced Picture Settings** menu.*

Programming channels into the TV's channel memory
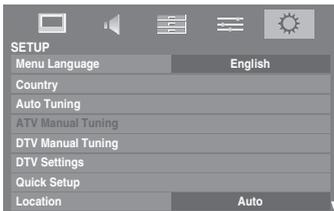
Auto Tuning

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 Press **MENU** , and then press ◁ or ▷ to select the **SETUP** menu.

☐	◀	☰	☰	☼

SETUP

Menu Language	English
Country	
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Quick Setup	
Location	Auto

2 Press ▽ to select **Auto Tuning**, and then 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		
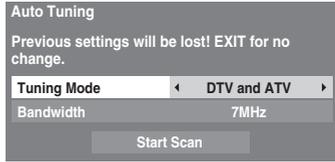
3 Use ◁ or ▷ to select **DTV and ATV**, **DTV** or **ATV**. Then, press ▽ to select **Start Scan**, and then press (OK) to continue with the **Auto Tuning**.

Press ▽ to select **Bandwidth**, press ◁ or ▷ to select **7MHz, 8MHz** or **7MHz and 8MHz** (☞ page 60). 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 then 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 **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.	Label
1	▶
2	
3	
4	
5	
6	
7	
8	▼

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

ATV Manual Tuning

Position

1	B/G	A	─●→	🔍	0

A   C   E   G
  B   D   F
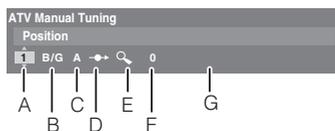
A. Position selection

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

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 beside the position
number in the banner when you use the **Number**
buttons on the remote control to tune directly.

E. Channel search operation

Press △ to search up the band or ▽ to search down
the band.
Press ▽ or △ repeatedly until your desired channel
is displayed.
When a station is found, it will be displayed.
NEVER PRESS ANY OTHER BUTTONS
WHILE THE SET IS TUNING.

F. Manual Fine Tuning

Press ▽ or △ until better picture and sound are
obtained.

G. 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**↔**ᴴ**˙↩
                                                    *(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.	Label
1	ABCD
2	EFGH
3	IJKL
4	MNOP
5	
6	
7	
8	

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 then 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 **SETUP** menu, press ▽ or △ to select **DTV
Manual Tuning**, and then press (OK).

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

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

Press ▽ to select **Bandwidth**, press ◁ or ▷ to select
7MHz, **8MHz** or **7MHz and 8MHz** (☞ page 60).

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

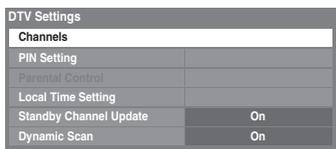| DTV Manual Tuning			
0 New Channels - Total 6			
New	Pos.	Name	Type
	2	☐☐☐	▭
	20	☐☐☐☐	▭
	21	☐☐☐☐☐	▭
	22	☐☐☐☐	▭
	23	☐☐☐	▭

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 **SETUP** menu, press ▽ or △ to select **DTV Settings**, and then press (OK).

2 Press ▽ or △ to select **Channels**, and then press (OK).

DTV Settings	
Channels	
PIN Setting	
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.

Channels		TV ▭
Line No. 1/10		
Pos.	Name	◦▸
1	▢▢▢▢▢	
2	▢▢▢	
7	▢▢▢▢	
30	▢▢▢	
40	▢▢▢▢▢▢	
51	▢▢▢▢▢	
822	▢▢▢▢	
823	▢▢▢▢▢	
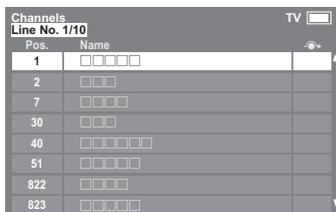
Line Number Jump — Press the **Number** button to input the line number you want to select, and then press (OK).

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

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 then press (OK).

Pos.	Name
- - - -	▢▢▢▢▢

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.

Channels		TV ▭
Line No. 1/10		
Pos.	Name	◦▸
☑ 1	▢▢▢▢▢	
☐ 2	▢▢▢	
☐ 7	▢▢▢▢	
☐ 30	▢▢▢	
☐ 40	▢▢▢▢▢▢	
☐ 51	▢▢▢▢▢	
☐ 822	▢▢▢▢	
☐ 823	▢▢▢▢▢	
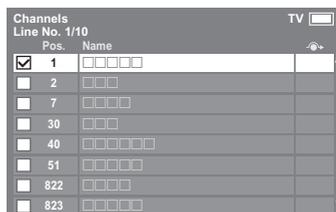
Sort — Press the **YELLOW** button. A confirmation window will appear. Press ◁ or ▷ to select **Yes**, and then press (OK).

Sort	
Your existing channel order will be lost. Do you wish to continue?	
◀	Yes	▶

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

Sort		
Sorting Type	◀	Channel Number	▶
	Sort	

Press ◁ or ▷ to set the sorting rule.

Channel Number mode:
Position No. order (numerical sequence)

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

Press ▽ to select **Sort**, and then 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 **SETUP** menu select **DTV Settings**, and then press (OK).

2 Press ▽ or △ to select **Standby Channel Update**, and then 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 **SETUP** menu, press ▽ or △ to select **Location**.

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 then press ▽ or △ to select a channel, and then press (OK) to view the channel (☞ page 30).

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

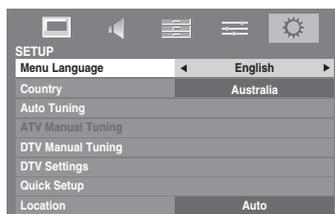You can switch positions without entering an actual position number each time.

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 Press **MENU**, and then press ◁ or ▷ to display the **SETUP** menu.

2 Press ▽ or △ to select **Menu Language**.

3 Press ◁ or ▷ to select the desired language.

SETUP		
Menu Language	◀ English	▶
Country	Australia	
Auto Tuning		
ATV Manual Tuning		
DTV Manual Tuning		
DTV Settings		
Quick Setup		
Location	Auto	▼

Displaying the on-screen information
- analogue -

1 Press (≡i) 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 (≡i) 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.
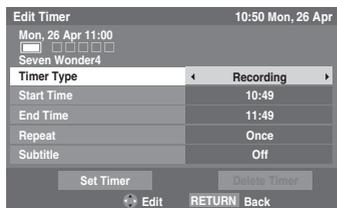
1 Press ⓘ to display the on-screen information.

```
[📺]  7   7 Digital              👁️➜ 🔒 ⊿11:20 Mon, 26 Apr
[CD]  English

        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   EXIT Watch TV
```

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) (🔒)
- Now and Next Programme Names
- Current date and time
- Video format of the current programme (SD/HD)
- Teletext availability (▤)
- Subtitle availability (▦)
- Parental rating
  Australia : G, PG, M, MA, AV, R, etc.
  New Zealand : G, PGR, AO, etc.
- Dolby® Digital audio track availability (indicated by **Dolby D**)
- Genre (🖼️)
- Programme Timer (if set) (◷)
- Reminder Timer (if set) (✓)

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

3 To record or set a reminder for the Next programme, select "**Next**" and press ⓄⓀ. The **Edit Timer** screen will appear.

```
Edit Timer                        10:50 Mon, 26 Apr
Mon, 26 Apr 11:00
[📺] ☐☐☐☐☐
Seven Wonder4
Timer Type          ◄      Recording        ►
Start Time                    10:49
End Time                      11:49
Repeat                        Once
Subtitle                      Off

        Set Timer             Delete Timer
              ⟳ Edit   RETURN Back
```

4 The details of the programme will have been added to the timer. Select **Set Timer** and press ⓄⓀ to save. To indicate that a timer has been set, a clock icon will be displayed in the **Next** field of the information screen (◷).

A check mark will appear if the timer is a Reminder Timer (✓).

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 ⓘ 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).
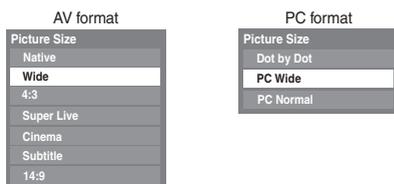
Picture adjustment

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

Selecting the picture size

1 Press [⊞] to display the picture size list, and then 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

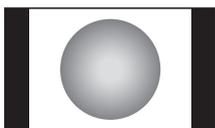| Picture Size |
|---|
| Dot by Dot |
| **PC Wide** |
| PC Normal |

2 Press ⓄⓀ.

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.
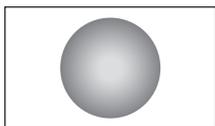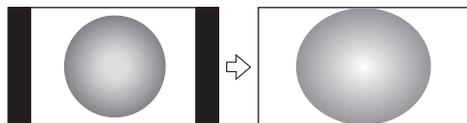
4:3

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.
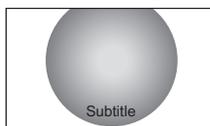
Cinema

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.
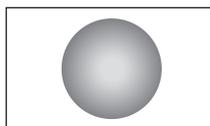
Native

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
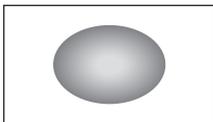
PC Normal

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.
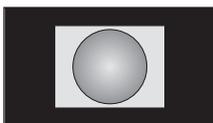
21
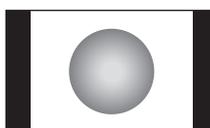
PC Wide

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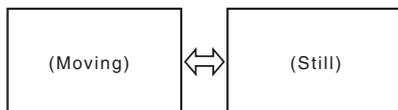
Note:
If you use this function except for the purpose of your private viewing and listening, it may infringe upon copyrights protected by copyright laws.

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 then 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.

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

- **PC** mode is available in RGB/PC input mode or HDMI input mode.
- The picture mode you select affects the current input only. You can select a different picture mode for each input.

1 From the **PICTURE** menu, press the ▽ or △ to select **Picture Mode**

PICTURE	
Picture Mode	Standard
Reset	
Backlight	70
Contrast	100
Brightness	0
Colour	0
Tint	0
Sharpness	0
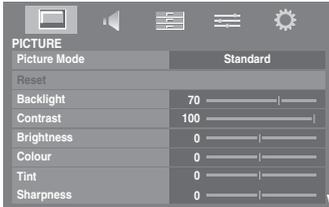
2 Press ◁ or ▷ to select the **Picture Mode** you prefer and press (OK) .

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 are 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**.

Note:
If no picture settings have been changed, **Reset** is not available.

1 From the **PICTURE** menu, press ▽ or △ to select **Reset**, and then press (OK).

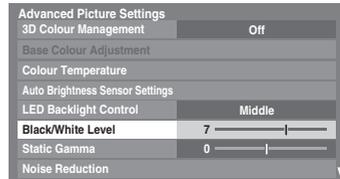**2** A confirmation message will appear. Press ◁ or ▷ to select **Yes**, and then press (OK).

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 then press ▽ or △ to select **Black/White Level**.

Advanced Picture Settings	
3D Colour Management	Off
Base Colour Adjustment	
Colour Temperature	
Auto Brightness Sensor Settings	
LED 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 **On** or **Off**.

Adjusting Film Stabilization

The **Film Stabilization** function improves motion smoothness.

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

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

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**, and then press (OK).

2 Press ◁ or ▷ to select the **Colour Temperature** setting (0 (warm) - 10 (cool)).

Colour Temperature		
Colour Temperature	◄	7 ►
Red - Offset	0	
Green - Offset	0	
Blue - Offset	0	
Red - Gain	0	
Green - Gain	0	
Blue - Gain	0	
Reset		
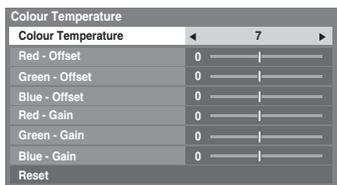
3 Press ▽ or △ to select the option you want to adjust, and then press ◁ or ▷ to adjust the setting.

4 Press (OK) to return to the previous menu.

To return the colour temperature settings to the factory defaults, select **Reset** and press (OK).

Note:
*If **Picture Mode** is set to **AutoView**, you can only adjust **Colour Temperature** and 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 then 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 then 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.
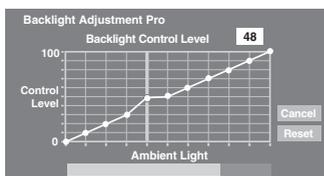
6 Press (OK) to confirm the adjustment.

To cancel the adjustment when selecting a point, select **Cancel** and press (OK).
To return the settings of all points to the factory defaults, select **Reset**, and then 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 then press ◁ or ▷ to select **On**.

3D Colour Management	◄	On ►

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

3 Press (OK), and then 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 then 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 then 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 then press OK.

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

Resolution+		
Resolution+	◄ On	►
Level	3	

3 Press ▽ to select **Level**, and then 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).

Using Expert Mode

This feature allows you to turn the colours red, green and blue on/off individually in order to adjust each colour more accurately.

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

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

2 Press ▽ or △ to select either **Red**, **Green** or **Blue**, and then press ◁ or ▷ to select **On**. Select **Off** for the other two colours.

Expert Mode		
☐ Red	On	
☐ Green	On	
■ Blue	◄ Off	►
Colour	0	
Tint	0	
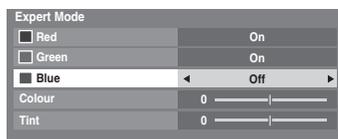
3 Press ▽ or △ to select **Colour** or **Tint**, and then press ◁ or ▷ to adjust.

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.

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 then press OK. The histogram window will appear.
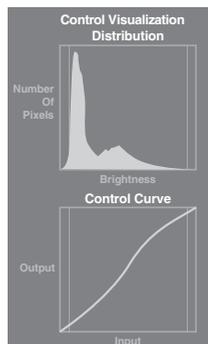
2 Press RETURN to return to the previous menu.

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 △ to select **Display Settings**.

▢	◀	🔲	☰	⚙

PREFERENCES

REGZA-LINK Setup	
Network Setup	
Media Renderer Setup	
Photo Frame Setup	
Teletext	Auto
Panel Lock	Off
Display Settings	
AV Connection	▼

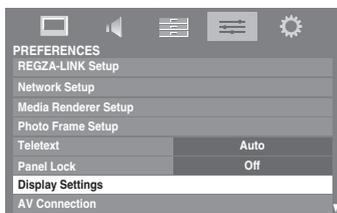**2** Press (OK), and then press ▽ or △ to select **Auto Format**

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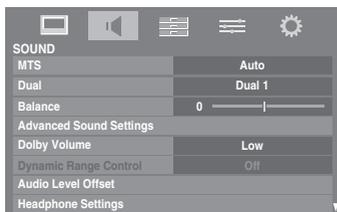
Sound adjustment

Setting the MTS (Multi-channel TV Sound)
- analogue -

Auto mode
The MTS Auto mode automatically recognizes stereo/bilingual programmes depending on the broadcast signal.

1 Press **MENU**, and then press ◁ or ▷ to display the **SOUND** menu.

▢	◀	🔲	☰	⚙

SOUND

MTS	Auto
Dual	Dual 1
Balance	0 —|—
Advanced Sound Settings	
Dolby Volume	Low
Dynamic Range Control	Off
Audio Level Offset	
Headphone Settings	▼

2 Press ▽ or △ to select **MTS**, and then press ◁ or ▷ to select **Auto** or **Mono**.

Mono mode
If you experience noise or poor reception of any stereo/bilingual programme, set the **MTS** mode to **Mono**. Noise will be reduced and reception may improve.

Note:
If you experience noise with a particular programme

*whose channel reception is usually good, try setting MTS mode to **Auto**, and then switch ⬭🔘 to ⬭ Mono (monaural).*

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**.

Notes:
- *When the MTS setting is in **Mono** mode, the **Dual** menu is not selectable.*
- *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 🔘 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 🔘 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 🔘, and then 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**.

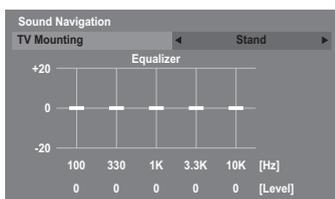**2** Press ◁ or ▷ to adjust the settings as desired.

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 then press ⓄⓀ.

2 Press ▽ or △ to select **Sound Navigation**, and then press ⓄⓀ.

Advanced Sound Settings	
Sound Navigation	
Surround	Off
Voice Enhancement	On
Dynamic Bass Boost	High

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

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

Sound Navigation		
TV Mounting	◀ Stand	▶

Equalizer

	100	330	1K	3.3K	10K	[Hz]
+20						
0						
-20						
	0	0	0	0	0	[Level]

5 Repeat step 4 for other frequencies.

Using the Advanced Sound Settings

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

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**.

Dynamic Bass Boost or **Ext. Woofer** : To select the desired bass expansion level (**Off**, **Low**, or **High**).

Note:
Ext. Woofer *is displayed instead of **Dynamic Bass Boost** when **Woofer** is set to **External** in the **AV Connection** menu (☞ page 39).*

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 and MONITOR output terminals.*
- *If you feel it is hard to listen to audio due to signal status, turn off Dolby Volume.*

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 ⓄⓀ.

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

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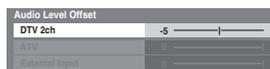
Notes:
- *The available item changes depending on the current input source. For example, when watching a DTV 2ch programme, only DTV 2ch is available and the other two items are greyed out in the menu. This allows you to easily adjust according to each condition.*
- *When watching a DTV 5.1ch programme,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

Headphone Settings

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

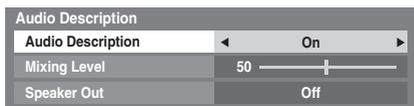| Speaker Link	Headphone	Speakers
On	Sound is output ($\angle - +$ is available.)	No sound
Off	Sound is output (Headphone level menu is available.)	Sound is output ($\angle - +$ is available.)

1 From the **SOUND** menu, press ▽ or △ to select **Headphone Settings**, and then press (OK).

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

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

Headphone Settings	
Speaker Link	Off
Headphone Level	50 ———┃———
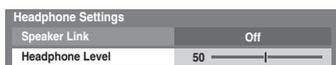
Adjusting Audio Description

• This feature is only available when **Country** is set to **New Zealand** (☞ page 13).

• This feature is an additional narrative sound track for visually impaired individuals to understand and enjoy the story line more fully. The letters AD content. You can choose to hear sound from the TV speakers and the headphone output or only from the headphone output.

1 From the **SOUND** menu, press ▽ or △ until **Audio Description** is selected, and then press (OK).

2 In the **Audio Description** field, select **On**.

Audio Description		
Audio Description	◀ On ▶
Mixing Level	50 ———┃———
Speaker Out	Off

3 To adjust the level of the audio description sound to the main sound, select **Mixing Level** and then press ◁ or ▷.

4 Select **Speaker Out**, and then press ▽ or △ to select **On** or **Off**.

   On : Audio description from both the headphone output and speakers.

   Off : Audio description from the headphone output.

   See "Headphone Settings" to adjust the headphone sound.

Notes:
• *This feature also applies to the sound from the DIGITAL AUDIO output and FIXED AUDIO output.*
• *When **Audio Description** is **On**, sound will be output from the MONITOR output.*

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 then press (OK).

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

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Notes:
- *When **Location** is set to **Home**, this feature can set to **On**.*
- *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 then 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
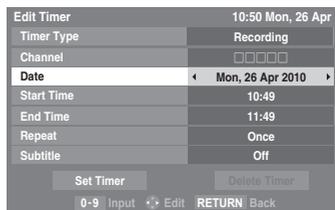
Setting a Programme Timer - digital -

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 Press **MENU**, and then press ◁ or ▷ to select the **APPLICATIONS** menu.

□	◀	▦	≡	⚙

APPLICATIONS	
Media Player	
Programme Timers	
On Timer	
Sleep Timer	00:00
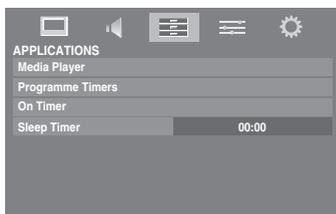
2 Press ▽ to select **Programme Timers**, and then press (OK).

3 Press ▽ if necessary to select an open timer position, and then press (OK). The **Edit Timer** menu will now appear on screen.

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

Edit Timer	10:50 Mon, 26 Apr
Timer Type	Recording
Channel	☐☐☐☐☐
Date	◀ Mon, 26 Apr 2010 ▶
Start Time	10:49
End Time	11:49
Repeat	Once
Subtitle	Off
Set Timer	Delete Timer
0-9 Input ✛ Edit RETURN Back	

5 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. When the programme timer activates, the indicator will change from orange to red.

6 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. When **On Timer** is set to **On**, the green on timer indicator on the front of the TV is lit (☞ page 9).

1 From the **APPLICATIONS** menu, press ▽ to select **On Timer**, and then press (OK).

2 Press ▽ or △ to select **Enable On Timer**, and then 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	
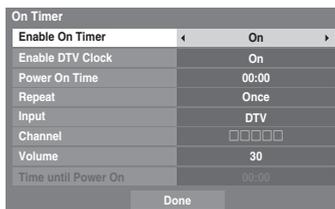
3 Press ▽ to select **Enable DTV Clock**, and then press ◁ or ▷ to select **On** or **Off**.

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, EXT 4, 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 In the **On Timer** menu, select **Enable On Timer**.

2 Press ◁ or ▷ to select **Off** then press ▽ or △ to select **Done**, and then 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 **APPLICATIONS** 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 time:
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 **SETUP** menu, press ▽ or △ until **Reset TV** is selected.
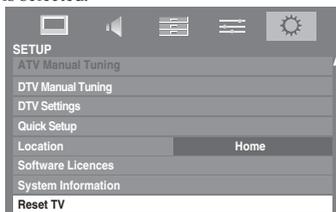
2 Press (OK) to select.

A screen will appear warning that all settings will be lost. Select **Yes**, and then 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 16).

Channel List

1 Press the **LIST** button. The **Channel List** will appear.
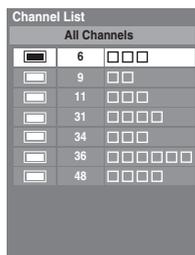
2 Press ▽ or △ to select a channel or input, and then press (OK) to watch.

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	Pressing ⊙ on the TV right side panel
Inputs	**Inputs**
TV	DTV TV
⊙ 1	DTV RADIO *
⊙ 2	DTV TEXT *
⊙ 3	⊙ 1
⊙ 4	⊙ 2
HDMI 1	⊙ 3
HDMI 2	⊙ 4
HDMI 3	HDMI 1
HDMI 4	HDMI 2
PC	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) or ⊕ 1S (S-video input),

⊕ 2 (⊕ (2), video 2 input),

⊕ 3 (⊕ (3), component video input),

⊕ 4 (⊕ (4), component video input),

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

Notes:
- *When component video, PC, or HDMI input modes are selected, the **MONITOR** terminals (☞ page 40) output audio signal only.*
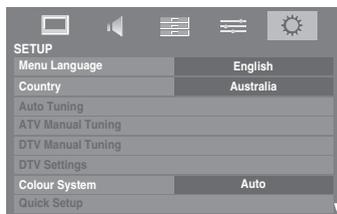- *If a REGZA-LINK device is connected to an HDMI input, the **REGZA-LINK** icon will appear.*
- *When the TV is switched on, it will take a few minutes for the **REGZA-LINK** icon to appear in the list; when an HDMI cable is removed, it will take a few minutes for the icon to disappear.*
- *If the HDMI 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 Press **MENU**, and then press ◁ or ▷ to display the **SETUP** menu.

SETUP	
Menu Language	English
Country	Australia
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Colour System	Auto
Quick Setup	

2 Press ▽ or △ to select **Colour System**, and then 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 then press (OK).

PREFERENCES	
REGZA-LINK Setup	
Network Setup	
Media Renderer Setup	
Photo Frame Setup	
Teletext	Auto
Panel Lock	Off
Display Settings	
AV Connection	▼

2 Press ▽ or △ to select **Input Labeling**, and then press (OK).

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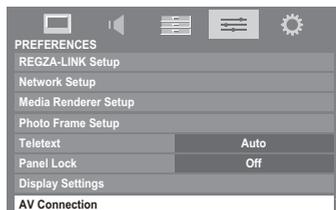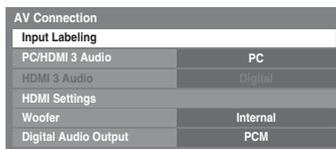
3 Press ▽ or △ to select the input you want to skip, and then press the **RED** button to turn on the skip.

Input Labeling			
Input	Label		◉→
EXT 1	◀ -- ▶		◉→
EXT 2	--		
EXT 3	--		
EXT 4	--		
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 Select **AV Connection** from the **PREFERENCECES** menu, and then press (OK).

2 Press ▽ or △ to select **Input Labeling**, and then press (OK).

Input Labeling		
Input	**Label**	💬
EXT 1	◄ -- ►	
EXT 2	--	
EXT 3	--	
EXT 4	--	
HDMI 1	--	
HDMI 2	--	
HDMI 3	--	
HDMI 4	--	
PC	--	

3 Press ▽ or △ to select the item you want to label, and then press ◁ or ▷ to select --, **Amplifier**, **Cable**, **DVD**, **Game**, **PC**, **Recorder**, **Satellite** or **VCR**, or press the **GREEN** button to select User Input.

Note:
*When **User Input** is selected by pressing the **GREEN** button, the **Software Keyboard** window will appear. Input the desired characters (10 characters or less) by using the **Software Keyboard** (☞ page 46) 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 45).

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 then press ▽ or △ to select **Enable REGZA-LINK**.

REGZA-LINK Setup		
Enable REGZA-LINK	◄ **On** ►	
TV Auto Power	**On**	
Auto Standby	**On**	
Amplifier Control	**On**	
Speaker Preference	**TV Speakers**	

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

Note:
*If you set **Enable REGZA-LINK** to **Off**, all other items will be greyed out.*

4 Press ▽ or △ to select the **REGZA-LINK Setup** item you want to use, and then press ◁ or ▷ to select **On/Off** or the desired speakers mode.

- •**TV Auto Power: On/Off**
- •**Auto Standby: On/Off**
- •**Amplifier Control: On/Off**
- •**Speaker Preference: TV Speakers/Amplifier**

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.

Speaker Preference
This feature allows the **Speaker Preference** 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 then on again to output the sound from the TV speakers.*
- *The above functions are dependent on the connected device and TV setting.*

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 **Speaker Preference** is set to **Amplifier** in the **REGZA-LINK Setup** menu or in the **Quick Menu** (**Speakers**).

Notes:
• *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* **Speaker Preference***. Turn the TV first to standby and then on again to output the sound from the TV speakers.*
• *The proper function may not work when operating the AV amplifier.*

> **Note:**
> *The above functions are dependent on the connected device and TV setting.*

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
4
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 30.

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***.*

To control the REGZA-LINK device

First, make sure that **Enable REGZA-LINK** in the **REGZA-LINK Setup** menu is set to **On**, then select the **HDMI** input source with the desired REGZA-LINK device connected. Next, switch the mode on the remote control to REGZA-LINK and press the available button on the remote control (☞ page 12).

The TV features that can be controlled by the connected device remote control are:
Power standby, Volume, Programme channel, Sound mute, Input selection, Number button, Previous channel.

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:
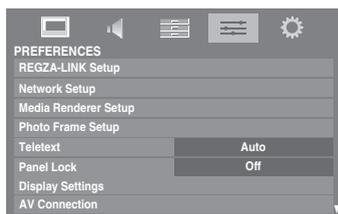*This feature depends on the connected equipment.*

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 Press **MENU**, and then press ◁ or ▷ to display the **PREFERENCES** menu.

PREFERENCES	
REGZA-LINK Setup	
Network Setup	
Media Renderer Setup	
Photo Frame Setup	
Teletext	Auto
Panel Lock	Off
Display Settings	
AV Connection	▼

2 Press ▽ or △ to select **Teletext**, and then 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
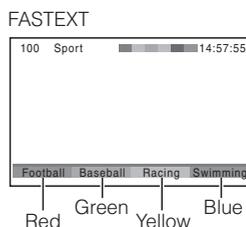
If FASTEXT is available, you will see 4 coloured titles at the bottom of the TV screen. To access any given subject, simply press the appropriate coloured button on the remote control.

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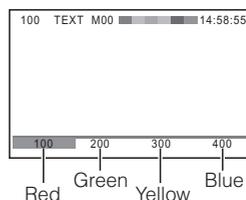
The four choices at the bottom of the screen are now numbered – **100**, **200**, **300** and **400**.

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.

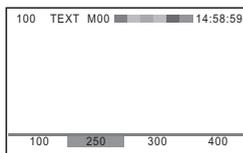## Teletext buttons on the remote control

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 then ⟳/☰⊠ 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



```

Subtitles

1 Press SUBTITLE on the remote control to display the current Subtitle status. While this status is displayed, press again to change the setting.

2 If you switch off the TV, the **Subtitle** mode will be remembered the next time the TV is switched ON.

Note:
*If **Subtitle** is On, the TV will always display subtitles whenever such information is available for the channel you are viewing. In DTV mode, you may use on-screen information to check if subtitles are currently available.*

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.

				10:50 Mon, 26 Apr
◄◄ Thu6 ►►				
TV	◄► 18:00 18:30 19:00 19:30 20:00 ►►			
6 ▢▢				
9 ▢▢▢				
11 ▢▢▢▢▢				
31 ▢▢▢▢				
34 ▢▢▢				
800 ▢▢▢▢▢				
801 ▢▢				
802 ▢▢▢				
804 ▢▢▢▢				
806 ▢▢▢▢▢▢				
807 ▢▢▢▢				
808 ▢▢				
809 ▢▢▢				

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

Note:
*Pressing the **ATV / DTV** 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 (i+).

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.

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 then press (OK).

Australia screen example

Genre Colour	
Movies	

● ● ● **Colour Setup** MENU Back

3 With the focus on a particular genre, press the desired colour key to assign. Four colours will be available to set. Press (RETURN) to go back to the guide screen.

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

Genre Search		10:50 Mon, 26 Apr
Movies		
34 ▢▢▢▢▢	▢▢▢▢▢	Wed,27 Apr 0:15- 1:45
31 ▢▢▢▢▢	▢▢▢▢▢	Wed,27 Apr 22:15- 23:55
11 ▢▢▢▢▢	▢▢▢▢▢	Thu,28 Apr 1:20- 3:00
9 ▢▢▢▢▢	▢▢▢▢▢	Fri,29 Apr 1:30- 3:00
34 ▢▢▢▢▢	▢▢▢▢▢	Sat,30 Apr 0:45- 2:40
11 ▢▢▢▢▢	▢▢▢▢▢	Sat,30 Apr 1:15- 3:00
31 ▢▢▢▢▢	▢▢▢▢▢	Sat,30 Apr 15:00- 17:30
9 ▢▢▢▢▢	▢▢▢▢▢	Sat,30 Apr 23:20- 1:15
11 ▢▢▢▢▢	▢▢▢▢▢	Sun,1 May 0:40- 2:00
31 ▢▢▢▢▢	▢▢▢▢▢	Sun,1 May 0:40- 2:20
11 ▢▢▢▢▢	▢▢▢▢▢	Sun,1 May 21:10- 23:20
11 ▢▢▢▢▢	▢▢▢▢▢	Sun,1 May 23:20- 1:15
34 ▢▢▢▢▢	▢▢▢▢▢	Mon,1 May 1:10- 3:00

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 **Edit Timer** menu.

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

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 tick will appear in the box as they are selected.

6 Repeat steps 1 through 5 for other channels.

7 When all favourites have been selected, press (EXIT) .

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 then press (OK).

3 Press ▷ repeatedly to select the skip box.

4 Press (OK) to select. A tick will appear in the box.

5 Repeat steps 1 through 4 for other channels.

6 Press (EXIT).

Note:
Skipped channels cannot be selected by **P∨ or P∧** *but 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 then press (OK).

3 Press ▷ repeatedly to select the lock box.

4 Press (OK) to select. A tick will appear in the box.

If a PIN has already been set, PIN entry will be required to set 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 **PIN Setting**, and then press (OK).

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

> **PIN Setting**
> **New PIN:**   ＊ ＊ ＊ ＊
> **Confirm PIN:**   ☐

The PIN is now set to Enabled. Press **MENU** to go back to **DTV Settings**.

If the PIN code has been set, when **Auto Tuning** and **Reset TV** are executed, it will be necessary to enter the PIN.

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 ▽ to select **Parental Control**.

> **Parental Control**
> **Parental Setup**   ◂   **None**   ▸

2 Press ◁ or ▷ to choose the desired **Parental Setup** option.
- When **Country** is set to **Australia**: **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**.
- When **Country** is set to **New Zealand**: **None**, **Block all**, **Block G and above**, **Block PGR and above**, **Block AO 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 **SETUP** menu, press ▽ or △ until **System Information** is selected.

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

System Information		
	TOSHIBA	
	2010	
	14.1.x.x Xxx xx 2010 - xx:xx:xx FW:xx	
WEAK	**AVERAGE**	**STRONG**
Ch22		Poor
Ch25		Good
Ch35		Good
Ch46		Good
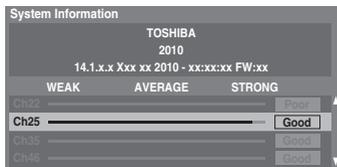
Local Time Settings

• This feature is available when **Country** is set to **Australia** (☞ page 13).

• 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 then 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 then press ◁ or ▷ to set as required.

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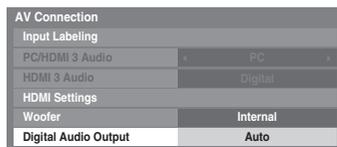
The licences for the software used in this TV are available for viewing on screen.

1 From the **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

1 From the **PREFERENCES** menu, press ▽ or △ to select **AV Connection**, and then 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	
Woofer	Internal
Digital Audio Output	**Auto**

3 Press ◁ or ▷ to select **Auto** or **PCM**

Auto: This mode outputs Dolby Digital or PCM to the digital audio output socket providing it is being broadcast.

PCM: Select this when a 2ch digital stereo amplifier is connected to the TV. When you select a Dolby Digital or MPEG audio track, the sound is converted to the PCM (2ch) format and output.
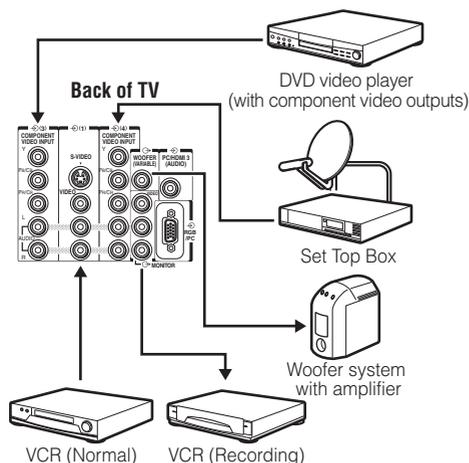
Dynamic Range Control

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**.

Back connections

Connection example

Back of TV

DVD video player
(with component video outputs)

Set Top Box

Woofer system
with amplifier

VCR (Normal)   VCR (Recording)

- 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.

- If you connect to both the S-VIDEO input terminal and VIDEO input terminal, the S-VIDEO signal will appear on the screen (display changes to ⊝1S)

- 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.

Selecting the Woofer

Connect an external woofer to the Woofer output terminal located on the rear of the TV.

1 From the **AV Connection** menu, press ▽ or △ to select **Woofer**.

2 Press ◁ or ▷ to select **Internal** or **External**.

   Internal : Select to use the Dynamic Bass Boost.

   External : Select to use an external woofer system.

Connecting an audio system - digital -

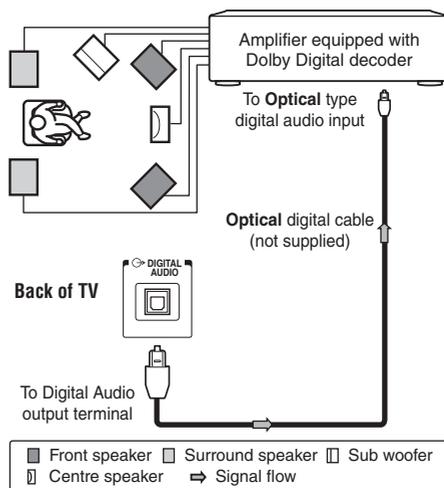You can enjoy high quality dynamic sound by connecting the TV to an audio system.

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 38). 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

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)

DIGITAL AUDIO

Back of TV

To Digital Audio output terminal

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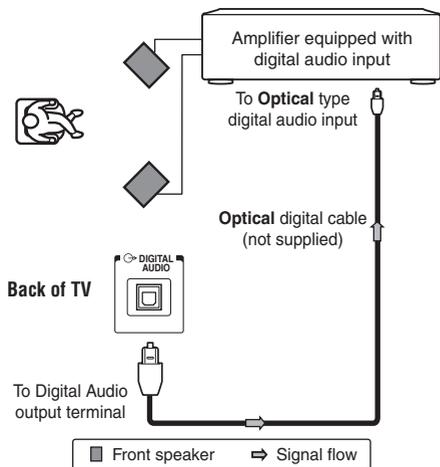
You can enjoy the dynamic sound of a 2-channel digital stereo by connecting the TV to an amplifier equipped with a digital audio (optical) input and speaker system (right and left front speakers). When using this setup, select **PCM** in the Digital Output menu.
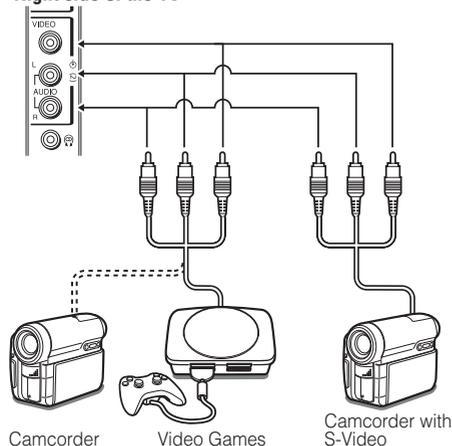
Side connections

You can connect a wide variety of auxiliary equipment via the terminals located on the right side of the TV ⊕ **(2)**.

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

Connection example

Right side of the TV

VIDEO
L
AUDIO
R

Camcorder   Video Games   Camcorder with S-Video

• To select the side inputs, press ⊕ to display the video input mode list, press ▽ or △ to select ⊕ 2 (☞ page 30), and then 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 then the HDMI or DVI device.

• When turning off your electronic components, turn off the HDMI or DVI device first, and then 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 42).

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.

- **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.
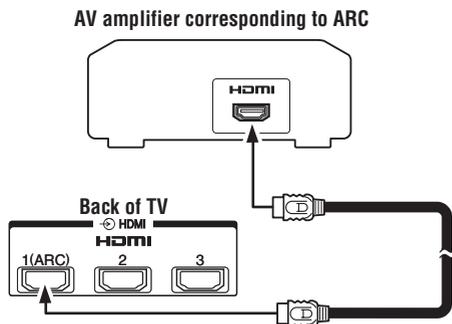 Therefore, the TV may not display small text properly.

- **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.

**AV amplifier corresponding to ARC**

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.
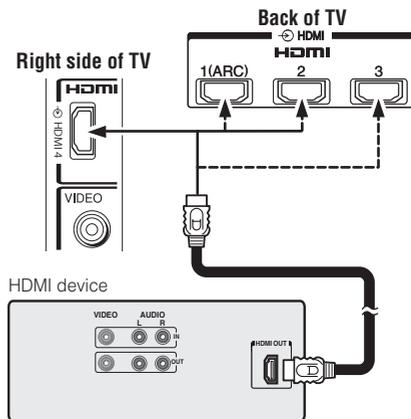
For proper operation, it is recommended that you use a short HDMI cable.

HDMI cable transfers both video and audio.
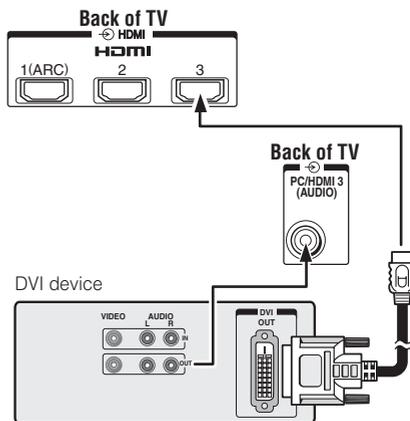
Note:
It is possible that some HDMI devices may not operate properly with this TV.

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.
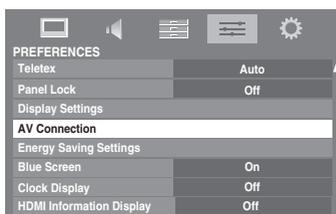
41

Standard analogue audio cables

An HDMI-to-DVI adapter cable transfers only video.
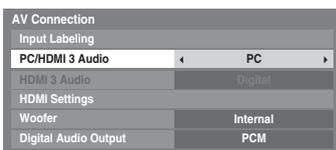
Separate analogue audio cables are required.

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 △ to select **AV Connection**.

PREFERENCES

Teletex	Auto
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	
Woofer	Internal
Digital Audio Output	PCM

3 Press ▽ or △ to select **PC/HDMI 3 Audio**, and then 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 then 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 then press ⊙K.

HDMI Settings

Enable Content Type	◄ On ►
INSTAPORT™	On
RGB Range	Auto

2 Press ▽ or △ to select each item, and then 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

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

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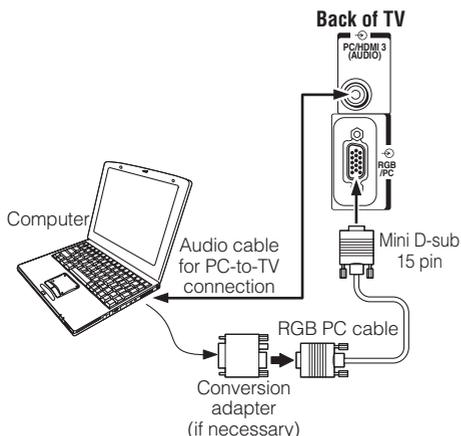
Back of TV

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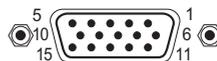
Pin No.	Signal name	Pin No.	Signal name
1	R	9	NC
2	G	10	Ground
3	B	11	NC
4	NC (not connected)	12	NC
5	Ground	13	H-sync
6	Ground	14	V-sync
7	Ground	15	NC
8	Ground		

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
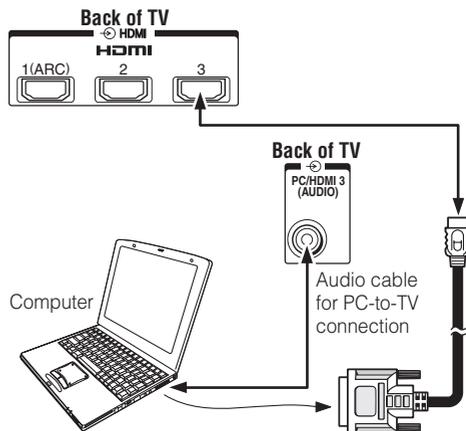
For acceptable PC signal formats, see page 41.

Notes:
- *The edges of images may be hidden.*
- *The PC signal may not be detected correctly for certain PC models.*
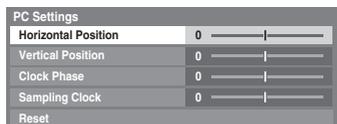
43

Using the PC Settings

- Most of the picture controls and functions are available in both digital and analogue modes. However, features not available will be greyed out.
- First, press ⊕ to display the video input mode list, and then press ▽ or △ and (OK) in order to select PC input mode (☞ page 30).
- 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 (☞ pages 32, 33).

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.

Connection example

TV back view
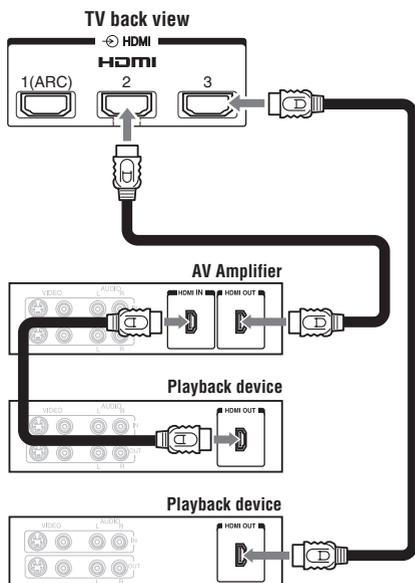
Notes:
- *If several devices are connected, REGZA-LINK feature may not operate properly.*
- *The REGZA-LINK function uses the CEC technology as regulated by the HDMI standard.*
- *For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (HDMI®).*
- *This function is limited 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 will be able to operate one PC and one AV amplifier.*
  But PC may not operate properly with the AV amplifier.
  Some PC models may not be effect properly by the TV.

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 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 46).*
- *If you use a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.*
- *If you connect the TV and PC directly, use a crossover LAN cable.*

To connect the TV to a home network

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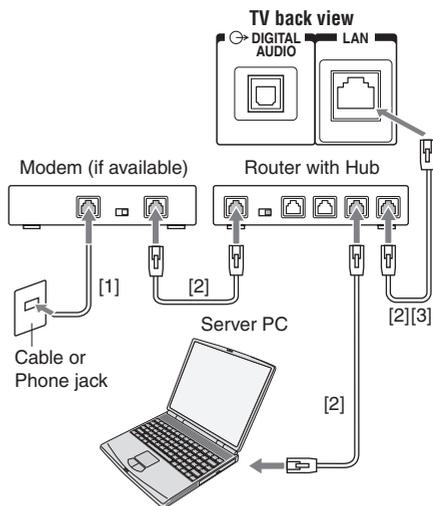
[1] Coaxial or telephone cable (depending on your modem type)

[2] Standard LAN cable

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

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.

Setting up the Network

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).

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

> Network Setup
> **IP Address Setup**
> MAC Address

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

> IP Address Setup
> Auto Setup   ◀   On   ▶
> IP Address
> Subnet Mask

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 then press ◁ or ▷ to select **Off**.

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

6 Press ◁ or ▷ to select the field you want to change, and then use the number buttons to input the IP address. To save the setting, press (OK).

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

7 Press ▽ or △ to select **Subnet Mask**, and edit in the same way as IP Address.

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

MAC Address

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

1 From the **PREFERENCES** menu, select **Network Setup** and press (OK).

2 Press ▽ or △ to select **MAC Address**, and press (OK).

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

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

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

```
                              A  a  1  @
     A A A |
     A   B   C   D   E   F   G
     H   I   J   K   L   M   N
     O   P   Q   R   S   T   U
     V   W   X   Y   Z
```

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.
(RETURN)	Closes the Software Keyboard window without saving changes.

Setting up the Media Renderer feature

Terminology:

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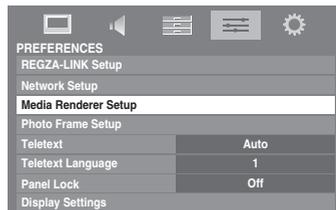
DMR: DLNA CERTIFIED™ Renderer

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.

Installation

You can configure the DMR settings individually, or use Installation mode to be prompted for each setting in order.

1 From the **PREFERENCES** menu, select **Media Renderer Setup** and press (OK).

```
   ┌─────┐  ┌──┐  ┌═══┐  ┌═══┐  ┌☼┐
   │ ▭   │  │◀ │  │ ≣ │  │ ≣ │  │  │
   PREFERENCES
   REGZA-LINK Setup
   Network Setup
   Media Renderer Setup
   Photo Frame Setup
   Teletext                        Auto
   Teletext Language               1
   Panel Lock                      Off
   Display Settings                 ▼
```

2 Press ▽ or △ to select **Installation**, and press (OK).

3 Press ◁ or ▷ to select **On**, and press (OK).

4 If you want to change the device name as a Renderer, select the **Device Name** field and press (OK). The Software Keyboard window will appear.

5 Input the Device Name by using the Software Keyboard. To save your setting, press the **BLUE** button.
   Note:
   The Device Name can be up to 127 characters long.

6 Select **Done**, and then press (OK).

7 If you want to change the password, press ◁ or ▷ to select **Yes**, and then press (OK).

8 Change the Web Password by using the Software Keyboard (☞ page 46), and then press the **BLUE** button.
   Note:
   The Web Password can be up to 15 characters long.

9 Select **Done**, and then press (OK).

10 If you want to limit access from unexpected DMCs, press ◁ or ▷ to select **On**, and then press (OK).

11 If you want to proceed with registration of DMCs, press ◁ or ▷ to select **Yes**, and then press (OK).

12 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.

13 Press ▷ to select **Done**, and then press (OK).

14 The **Maximum Volume Setup** window appears. Press ◁ or ▷ to adjust to the desired volume. Then, press (OK).

Media Renderer

1 From the **PREFERENCES** menu, select **Media Renderer Setup** and press (OK).

2 Press ▽ or △ to select **Media Renderer**, and then press ◁ or ▷ to select **On** or **Off**.

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 **PREFERENCES** menu, select **Media Renderer Setup** and press (OK).

2 Press ▽ or △ to select **Device Name Setup**, and press (OK).

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

4 Input the Device Name by using the Software Keyboard (☞ page 46). To save your setting, press the **BLUE** button.

   Note:
   The Device Name can be up to 127 characters long.

5 Select **Done**, and then press (OK).

Web Password Setup

This setup determines the password that is necessary for the DMC to access built-in web pages on the DMR.

1 From the **Media Renderer Setup** menu, select **Web Password Setup**, and press (OK). Select the **Password** field and press (OK). The Software Keyboard window will appear.

2 Change the password by using the Software Keyboard (☞ page 46), and then press the **BLUE** button.

   Notes:
   • *The Web Password can be up to 15 characters long.*
   • *Only the password can be changed. User ID cannot be changed.*

3 Select **Done**, and then press (OK).

Notes:
• *Some DMCs can view or modify the device name of the DMR.*
• *Depending on the TV's state, it may not be possible to set the device name from the web page.*
• *Review the owner's manual of the DMC to confirm the method for accessing web pages.*

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 then 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, 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 is ended, the TV volume will return to the value in effect when DMR playback is started.*

Using the Media Player

This TV allows you to enjoy movie (DivX®), music (MP3) and photo files stored on a USB 1 device or photo files on a SD Memory Card.

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 or SD Memory Card 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 48).*

Media Player Specifications

Device
USB device: USB Mass Storage Class devices (MSC)

Note:
Connectivity is not guaranteed for all devices.
SD Memory Card: *up to 2GB*
SD High Capacity Memory Card (SDHC): *4 - 32GB*

Supported file system
FAT12, FAT16 and FAT32

Note:
Do not use any SD Memory Cards other than those specified.
DLNA CERTIFIED™ Server: *Your PC (for example)*

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

Basic operation

Using Media Player with a USB or SD Memory Card
When Auto Start is enabled, you will be asked if you want to start the Media Player whenever a USB or SD 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 **APPLICATIONS** menu, press ▽ or △ to select **Media Player**, and then press (OK).

2 Press ▽ or △ to select **SETUP**, and press (OK).

3 Press ▽ or △ to select **USB/SD Auto Start**, and then press ◁ or ▷ to select **On** or **Off**.

Setup		
USB/SD Auto Start	◄ On	►
DivX® VOD		
Media Server Setup		

Auto Start:

1 Insert USB device into the USB socket or SD Memory Card into the SD card slot on the right side of the TV. A prompt will appear.

2 Press ◁ or ▷ to select **Yes**, and then press (OK).

3 Press ▽ or △ to select **Photo** and press (OK). The thumbnail view will appear.

4 Press ▽ or △ to select **USB** or **SD Memory Card** if the selection window is displayed.

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 or SD Memory Card into the SD card slot on the right side of the TV.

2 From the **Media Player** menu, and then press (OK).

3 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

Media Player
Photo
Movie
Music
Setup

Note:
If the selection window is displayed, press ▽ or △ to select **USB** *or* **SD Memory Card***.*

Selecting a file in the list of contents:

1 Press ▽ or △ to select a file or folder.

2 Press (OK) to move to the next layer, or press (RETURN) 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 45).

1 Select **Media Player** from **APPLICATIONS** menu, and then 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 contents:

1 Press ▽ or △ to select a file or folder.

2 Press (OK) to move to the next layer, or press (RETURN) to return to the previous layer.

Closing the Media Player:

1 Press (EXIT).

Setting the Media Server Setup:

You only need to complete the Media Server Setup if you want to store a list of DMSs to activate later from the TV.

1 From the **Media Player** menu (OK).

2 Press ▽ or △ to select **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 then press (OK). A check will appear in the box. To remove the check, press again.

5 Press ▷ to select **Done**, and then 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.*
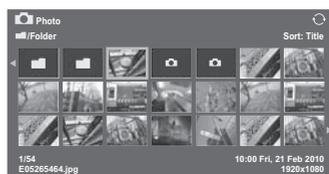 - *Press the **RED** button to update the list.*

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.

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 (RETURN) 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 (i+) to display file status information (file number, photo title, date and time taken, resolution etc.).

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

Slide Show

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

1 To start slideshow, press (OK) in the Single View mode.

2 Press ◁ / ▷ to view the previous/next photo.

3 Press ▽ or △ to rotate the photo.

4 Press (i+) to display file status information.

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).

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** or **Old** to set the sorting rule.

Item	Description
File Name or Title	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 or SD card 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

USB or SD card use:
Data compatibility: JPEG Exif ver 2.2

File format: JPEG

Maximum viewable resolution:

  4096×4096 (HW decode) pixels

  16384×16384 (SW decode) pixels

Maximum photo size: 9 MB

Maximum number of files: 2000 / folder

Content on DLNA CERTIFIED™ Server:
Data compatibility: JPEG EXIF Ver.1.x or later, JFIF 1.02a

File format: JPEG

Maximum viewable resolution:

  4096×4096 pixels (DMP)

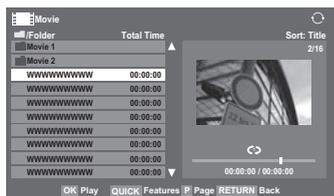 1024×768 pixels (DMR)

Maximum photo size: 6 MB

Maximum number of files: 2000 / folder

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

You can select movies from a list of available files.

DLNA screen 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 ⓄⓀ to move to the next layer. Press ⓇⒺⓉⓊⓇⓃ to move back to the previous layer.

3 With the desired file selected, press ⓄⓀ or **PLAY(▶)** to start playback.

4 Press ■ to stop playback.

Notes:
* From the file list view, if you select the file without pressing ⓄⓀ, the content is played on a preview screen (DLNA only).
  When ⓄⓀ is pressed, it is played in full screen mode.
* 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 of available file.

During playback:
* Press **Ⅱ** / **Ⅱ▶** to pause.

  You can move to the desired replay position by pressing ◁ or ▷ during **PAUSE** (DLNA only).

  PAUSE or operations during PAUSE may not be available depending on the content, DMC or DMS.
* To resume normal playback, press PLAY(▶).
* To play in fast reverse or fast forward directions, press ◀◀ or ▶▶ during playback. Each time you press the ◀◀ or ▶▶, the playback speed will change.
* 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 ⊂ᴰ¹ᐟ² repeatedly to select your preferred audio language.

Setting the repeat mode

1 Press ⓆⓊⒾⒸⓀ 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 ⓇⒺⓉⓊⓇⓃ.

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

Sorting the folders and files (DLNA only)

1 Press ⓆⓊⒾⒸⓀ to open the **Quick Menu** in list mode.

2 Press ▽ or △ to select **Sort**.

3 Press ◁ or ▷ to select **Title**, **New** or **Old** to set the sorting rule.

Item	Description
Title	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 contents were updated.
Old	From old to new according to the date and time when the contents were updated.

Note:
Sorting may not be supported by some DMSs.

Displaying the device information

1 Press ⓆⓊⒾⒸⓀ to open the **Quick Menu** in list mode.

2 Press ▽ or △ to select **Device Information**.

Note:
When the movies are located on a USB or SD card 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 **APPLICATIONS** menu, press ▽ or △ to select **Media Player**, and then press (OK).

2 Press ▽ or △ to select **SETUP**, and press (OK).

3 Press ▽ or △ to select **DivX® VOD**, and then press (OK).

DivX® VOD
DivX® VOD Registration
DivX® VOD Deactivation

4 Press ▽ or △ to select **DivX® VOD Registration**, and then 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 then press (OK).

2 A confirmation screen will appear. Select **Yes**, and then 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 www.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 DivX Video-on-Demand (VOD) content.
To generate the registration code, locate the DivX® VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX® VOD.

Closing the Movie Viewer

1 Press (EXIT).

File Compatibility

USB device use:

Profile: DivX Home Theater Profile v3.0

Video: DivX 3, 4, 5, 6

Audio: AC-3, 2-channel of MP2 and MP3

External subtitle: unsupported

Maximum video resolution: 720×480 (30 fps)
720×576 (25 fps)

Maximum number of files: 500/folder

Content on DLNA CERTIFIED™ Server:

File format:

Video: MPEG2(PS) PAL, MPEG2(PS) NTSC, MPEG2(TS)

Audio: LPCM / MPEG1-Layer1 / MPEG1-Layer2 / MPEG2-Layer2 / Dolby Digital (AC-3)

Maximum number of files: 1000 / folder

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

You can listen to music from a list of available files.
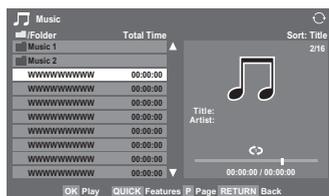
1 Press ▽ or △ to select a file or folder. **P⌄** or **P⌃** buttons can be used to page up/down the music list when there are more files than will fit onto one screen.

2 When you select a folder, press (OK) to move to the next layer. Press (RETURN) to move back to the previous layer.

3 With the desired file selected, press (OK) or PLAY (▶) to start playback.

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 **II** / **II▶** to pause.

• To resume normal playback, press PLAY(**▶**).

• You can move to the desired replay position by pressing ◁ or ▷ during PAUSE (DLNA only).

• 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.

• To locate a specific file, press ◀◀ or ▶▶ repeatedly.

Setting the repeat mode:

1 Press ⓠⓤⓘⓒⓚ 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. DLNA: 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 ⓇⒺⓉⓊⓇⓃ.

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

Sorting the folders and files (DLNA only)

1 Press ⓠⓤⓘⓒⓚ to open the **Quick Menu** in list mode.

2 Press ▽ or △ to select **Sort**.

3 Press ◁ or ▷ to select **Title**, **New** or **Old** to set the sorting rule

Item	Description
Title	Title--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 contents were updated.
Old	From old to new according to the date and time when the contents were updated.

Note:
Sorting may not be supported by some DMSs.

Displaying the device information

1 Press ⓠⓤⓘⓒⓚ to open the **Quick Menu** in list mode.

2 Press ▽ or △ to select Device Information.

Note:
When the music is located on a USB or SD card device or when the TV is used as a DMR, this feature is not available.

Displaying the file status information (DLNA only)

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

2 Press ⓘ₊ 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 ⓔⓧⓘⓣ.

File Compatibility

USB device use:

File format: MP3

Sampling frequency: 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, 48 kHz

Bit rate: From 8 to 320 kbps

Maximum number of files: 500/folder

Content on DLNA CERTIFIED™ Server:

File format: Linear PCM, MP3

Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz

Bit rate: from 32 to 320 kbps

Maximum number of files: 1000 / folder

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 SD memory card.

To open Photo Frame

Open from Menu

1 From the **PREFERENCES** menu, select **Photo Frame Setup**.
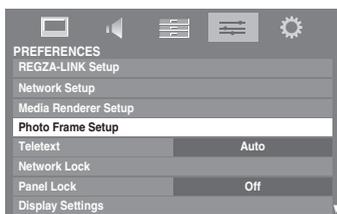
2 Press (OK). The preview screen will appear.

3 Press ▷ to select **Start**, and then press (OK) to open **Photo Frame**.

Open from Quick Menu

1 Press (QUICK) to open the **QUICK Menu**.

2 Press ▽ or △ to select **Photo Frame**, and then 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 then press (OK).

2 If the device selection screen appears, press ▽ or △ to select the appropriate device, and then press (OK).

3 Press ▽, △ ◁ or ▷ to select the photo you want to copy from the USB storage device or SD memory card to the TV's flash memory, and then press (OK).

Photo Edit

1 Press ▽ or △ to select **Photo Edit**, and then 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 then press (OK).
A confirmation message will appear. Select **YES**, and press (OK).

4 Press (RETURN).

Settings

1 Press ▽ or △ to select **Settings**, and then 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 (RETURN).

5 Select **Start**, and then press (OK).

Notes:
- *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.*

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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 then 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.
- Check that the TV/REGZA-LINK/DVD switch on the remote control is properly set.

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.

The screen's brightness decreases, flicker occurs, or some parts of the screen do not light up.
- When you first start to use this TV, flickering may occur on the screen. In this case, switch the TV off and then on again to resolve this issue.
- The cold cathode fluorescent lamp used for the backlight on this TV has a certain lifespan. When the brightness of the screen decreases, flicker occurs on the screen, or some parts of the screen do not light up, it may have reached the end of its life. Contact a service technician.

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

AUSTRALIAN 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**	✘	✘	✘	✘	✘	✘	✘	✔

NEW ZEALAND PARENTAL GUIDE CODES

Rating Transmitted	Block all	Block G and above	Block PGR and above	Block AO and above	None
0×00 Undefined	✗	✓	✓	✓	✓
0×01 - same as 0×06	✗	✗	✓	✓	✓
0×02 - same as 0×06	✗	✗	✓	✓	✓
0×03 - same as 0×06	✗	✗	✓	✓	✓
0×04 - same as 0×06	✗	✗	✓	✓	✓
0×05 - same as 0×06	✗	✗	✓	✓	✓
0×06 - G	✗	✗	✓	✓	✓
0×07 - same as 0×08	✗	✗	✗	✓	✓
0×08 - PGR	✗	✗	✗	✓	✓
0×09 - same as $0 \times 0C$	✗	✗	✗	✗	✓
$0 \times 0A$ - same as $0 \times 0C$	✗	✗	✗	✗	✓
$0 \times 0B$ - same as $0 \times 0C$	✗	✗	✗	✗	✓
$0 \times 0C$ - AO	✗	✗	✗	✗	✓
$0 \times 0D$	✗	✗	✗	✗	✓
$0 \times 0E$	✗	✗	✗	✗	✓
$0 \times 0F$	✗	✗	✗	✗	✓

✓ = show programme   ✗ = block programme

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	196
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	66

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
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

Specifications

Integrated Digital LCD TV

Model
40XV700A, 46XV700A

Power source
220 V-240 V AC, 50/60 Hz

Power consumption
40XV700A : 178 W, 0.2 W (standby)
46XV700A : 217 W, 0.2 W (standby)

Dimensions
40XV700A : 976 mm (W) 682 mm (H) 329 mm (D)
46XV700A : 1,108 mm (W) 759 mm (H) 329 mm (D)

Mass (Weight)
40XV700A : 19.0 kg
46XV700A : 24.0 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 - 57
			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
NTSC	M	(US)	VHF	2 - 13
			UHF	14 - 69
			CATV	A6 - A1, A - W, AA - ZZ, AAA, BBB
NTSC	M	(JAPAN)	VHF	1 - 12
			UHF	13 - 62
			CATV	M1 - M10, S1 - S41

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)
40XV700A : 101.6 cm
46XV700A : 116.8 cm

Number of pixels
1,920 (H) dots × 1,080 (V) dots

Audio power
10 W + 10 W

Speakers
Main   35 × 160 mm 2 pcs.

Input/Output terminals

⊙(1)	4 pin	S-video
	Phono jacks	A/V
⊙(2)	Input	
	Input	
	Phono jacks	A/V
⊙(3)	Input	
	Component video	Y, P$_B$/C$_B$, P$_R$/C$_R$
	Phono jacks	Audio L + R
⊙(4)	Input	
	Component video	Y, P$_B$/C$_B$, P$_R$/C$_R$
	Phono jacks	Audio L + R
MONITOR	Output	
	Phono jacks	A/V
WOOFER	Output	
	Phono jack	Bass Line out (Variable)
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 | Output
| (optical) | Bitstream/PCM
| Headphone jack | 3.5 mm (Diameter) stereo
| LAN port | RJ-45
| USB port | Media Player Interface
| | version: USB 2.0
| | USB class: Mass Storage
| | File system: FAT12, FAT16
| | and FAT32
| SD card slot | Interface version: SD (up to 2GB)
| | SDHC (4-32GB)
| | File system: FAT12, FAT16 and FAT32

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), Cleaning cloth (1)

This is used to fix the TV to a wall, pillar, etc. (☞ page 4).

- 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