TOSHIBA
Leading Innovation >>>

Owner's Manual
LED TV with Android™

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

DOLBY DIGITAL PLUS

DIVX+ HD

40L555 * Series
50L555 * Series
55L555 * Series

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: _____

Welcome to TOSHIBA

- Thank you for purchasing this TOSHIBA LED 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.
- You also can use the controls on the TV if they have the same name as those referred to on the remote control.
- Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.
- "LED TV" means LCD Panel with LED Backlight.

Contents

405055L5550Series_EEEV_En.indd   2   27/05/18   13:14:53

Pedestal stand Assembling

CAUTION: Before beginning pedestal assembly, carefully lay the front of the LCD Panel face down on a flat, cushioned surface such as a quilt or blanket. Leave the bottom of the unit protruding over the edge of the surface and assemble as indicated.

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

1
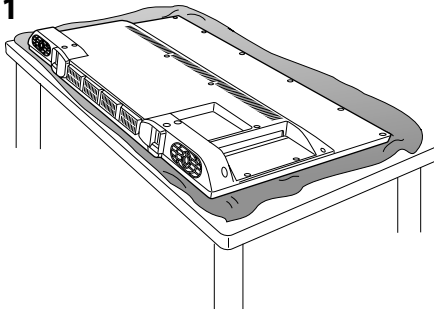
3
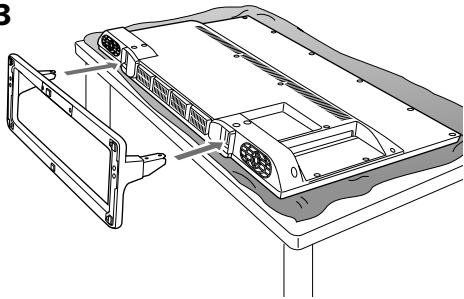
2
for 40L555* Series / 50L555* Series
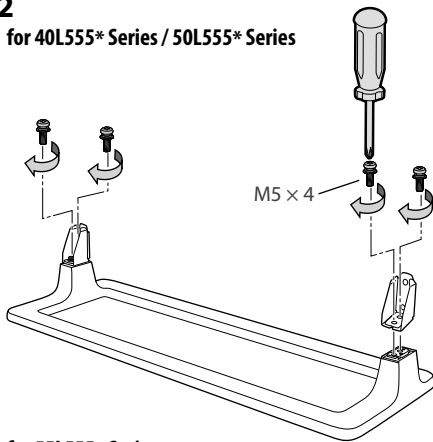
M5 × 4

for 55L555* Series

M5 × 4

4

M5 × 4
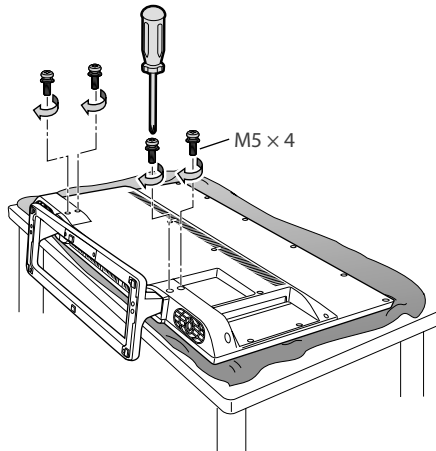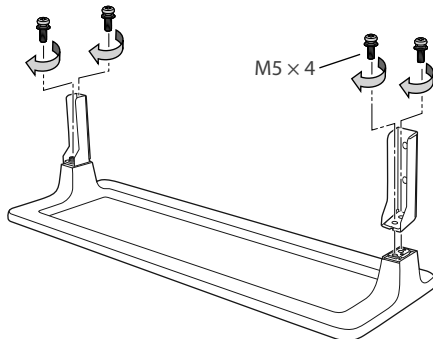
Warning: Ensure the power cable is not pinched when attaching the pedestal stand as this could cause an electric shock.

3

Important Safety Instructions

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

Installation

1) **WARNING: To prevent injury, this apparatus must be securely attached to a stable surface/ wall in accordance with the installation instructions.**
   Install the TV in a horizontal, stable location. Attach the TV to the stand with the mounting screw.
   - 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 a stable surface or wall securely in accordance with a qualified technician.

Top view

2) **Never place the TV in an unstabilized location such as on a shaky table, incline or location subject to vibration.**
   - Only use cabinets or stands recommended by the TV manufacturer.
   - Only use furniture that can safely support the TV.
   - Ensure that the TV is not hanging over the edge of the supporting furniture.
   - Never place the TV on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.
   - Never stand the TV on cloth or other material placed between the TV and supporting furniture.

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

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

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

4) **Always connect the power plug to an appropriate electrical outlet equipped with 110-240V AC, 50/60Hz.**
   Never use the TV outside the specified voltage range. It may cause a fire or an electric shock.
   About the fuse
   In a three pin earthing-type, the fuse fitted in this plug is approved by ASTA or BSI to BS1362. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted.
   About the use
   - Make sure to insert the plugs firmly, when plugging the AC power cord into the TV set end and wall outlet end.
   - Make sure to hold the plug, when unplugging the AC power cord.
   - Never use other cord except for supplied AC power cord, and never use the supplied power cord for any other purpose.

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

6) **Never block or cover the slots and openings in the cabinet.**
   - Never place the TV so that it is facing upward or on its side.
   - Never place the TV in a closet, bookcase or other similar area where the ventilation is poor.
   - Never drape a newspaper, tablecloth or curtain on the TV.
   - When installing the TV against a wall, always keep the TV at least 10 cm away from the wall.
   - Never place the TV on a soft unstable surface, such as a carpet, or a cushion.
   The inside of this TV will overheat if the ventilation holes are covered, blocked or sealed, which may result in a fire.

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

8) **Never place the TV in an area exposed to high humidity levels, such as in a bathroom or close to a humidifier.**
   This may cause a fire or an electric shock.

9) **Never place the TV next to a stove where it will be exposed to oil, smoke, or steam, or in a location where there is a large quantity of dust.**
   This may cause a fire or an electric shock.

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

11) Precautions for installing on outdoor aerial
An outside aerial system should not be located in the vicinity of overhead power lines, or other electric light or power circuits.
If the aerial falls down or drops, it may cause an injury or an electric shock.

Use

1) Never place hot objects or open flame sources, such as lighted candles or nightlights, on or close to the TV.
High temperatures can melt plastic and lead to fires.

2) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
When liquids are spilled or small items are dropped inside the TV, this may cause a fire or an electric shock.
If small objects drop inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician.

3) Never insert objects (metal or paper) or pour water inside the TV through ventilation holes and other openings.
These items may cause a fire or an electric shock. If these objects are inserted inside the TV, turn off the TV and remove the power plug from the outlet immediately and contact a service technician. Be especially careful that children do not insert objects in the TV.

4) When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet for safety.
- The TV is not completely disconnected from the power supply line, as minute current is consumed even when the ⏻/❙ Power switch is turned off.
- The Mains plug or an appliance coupler is used as the disconnect device, therefore the disconnect device shall remain readily operable.

5) Never pull on the power cord when removing the plug from the wall outlet.
Always hold the plug firmly when removing it. If the power cord is yanked, the cord may become damaged and a fire or an electric shock may occur.

6) Never cut, break, modify, twist, bunch up or bent the cord or apply excessive force or tension to it.
Never place heavy objects on the cord or allow it to overheat as this may cause damage, a fire or an electric shock. Contact a service technician if the power cord is damaged.

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

8) Turn off the TV before unplugging the power cord.
Failure to do so may cause a malfunction.

Service

1) Never repair, modify or disassemble the TV by yourself.
It may cause a fire or an electric shock.
Consult a service technician for inspection and repairs.

2) When a malfunction occurs, or if smoke or an unusual 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 has power in this condition, it may cause a fire or an electric shock. If the cabinet is broken, be careful when handling the TV to prevent an injury.
Contact a service technician for inspection and repair.

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

5

Cleaning

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

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.

Important information

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

4) **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 sign of malfunction.

5) **About 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).

6) **About using under the low temperature places**
   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.

7) **When disposing of or transferring ownership of the TV**
   Before disposing of or transferring ownership of the TV, perform "Resetting the TV" (☞ page 34).

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 of 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.

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 and/or UHF aerial

Media Recorder   **TV back view**

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
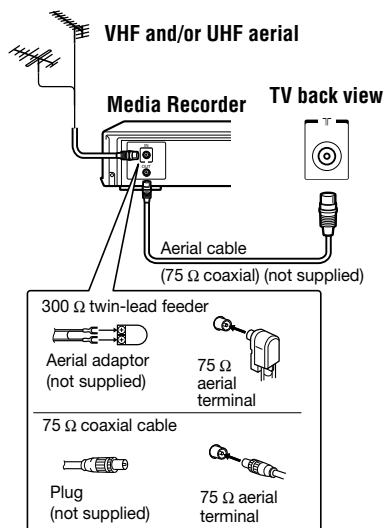
Exploring your new TV

Installing the remote control batteries

Easy remote control

Remove the battery cover.
Insert two LR6 (AA) batteries matching the –/+ polarities of the battery to the –/+ marks inside the battery compartment.
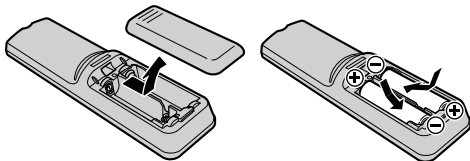
TV remote control

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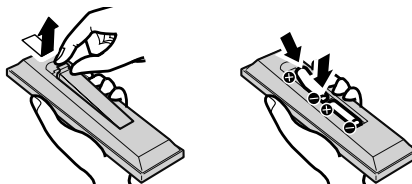
Cautions:
- *Dispose of batteries in a designated disposal area. Batteries must not be exposed to excessive heat such as sunshine, fire or the like.*
- *Attention should be drawn to the environmental aspects of battery disposal.*
- *Never mix battery types or combine used batteries with new ones.*

NOTE:
- *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

7
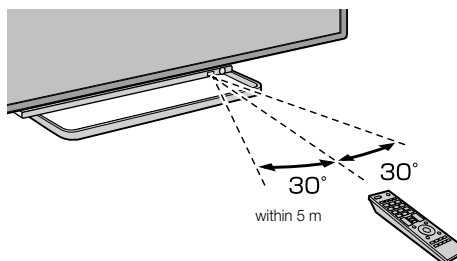
TV panel controls

- You can operate your TV using the buttons on the side panel or the remote control. The back of the panel provide the terminal connections to connect other equipment to your TV (☞ pages 37– 41).
- For the use of each control, see the pages in brackets.

TV front view

Left side view
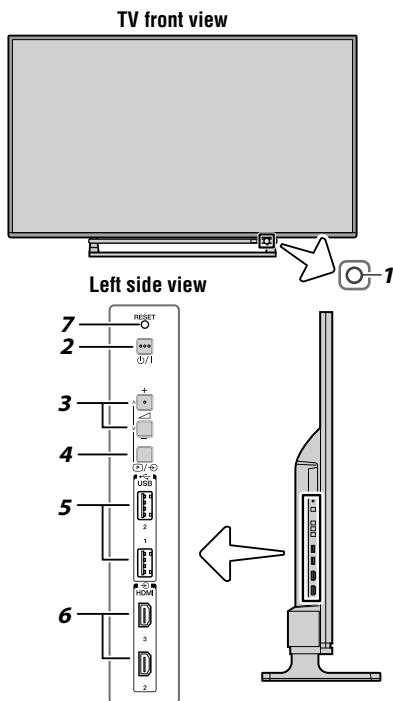
Sample Illustration: 40L555∗ Series front and side panel controls and connection

1 ⏻ **(power LED)** — Power indicator (☞ page 13).

2 ⏻ **(power on/standby)** — Press to turn the TV on/ standby (☞ page 13).

3 △ – + **(volume)** — These buttons adjust the volume level.
∧∨ (mode up/down) — These buttons select programme position or input source.

4 Ⓟ / ⎙ **(programme position or input source)** — When external input list is displayed, an input source can be selected.

5 **USB 1-2 (input terminals)** — Insert your USB storage device (photo, video and music) (☞ page 52).
- *Connect a USB HDD to the USB 1 port if it needs power supply.*

- *You can connect a keyboard or mouse to the USB port.*
- *If you are using a wireless mouse only, you cannot enter text. Use also a keyboard.*

NOTE:
Do not connect a USB device when the TV is performing operations other than reception (setup, software update, etc.).

6 ⎙ **HDMI 2 - 3 (input terminals)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device (☞ page 37).

7 **RESET** — Press this button with a fine-pointed object to reboot forcibly.

TV back view
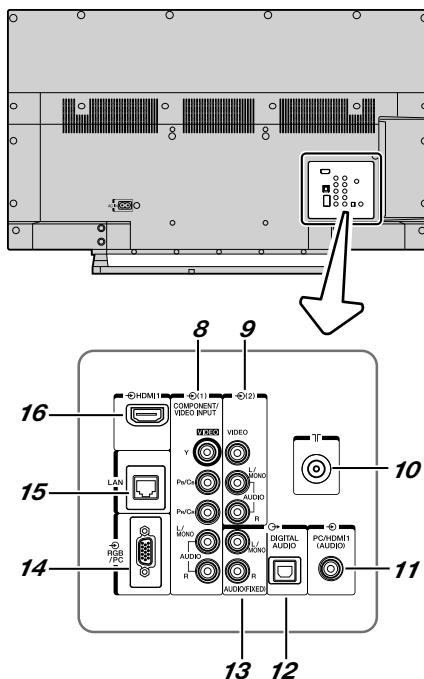
Sample Illustration: 40L555∗ Series front and side panel controls and connection

8 ⎙ **(1) COMPONENT / VIDEO INPUT (input terminals)** — High-definition component video and standard (analogue) stereo audio inputs, or standard (composite) video and standard stereo audio inputs (☞ page 37).

9 ⎙ **(2) (video 2 input terminals)** — Standard video and standard stereo audio input (☞ page 37).

10 ⊤ **(aerial input terminal)** — Aerial signal input (☞ page 7).

11 ⊖ **PC/HDMI 1 (AUDIO) (input terminal)** — PC audio input terminal is shared with HDMI analogue audio input terminal, and their use can be configured in the **PREFERENCES** menu (☞ page 39).

12 ⊖ **DIGITAL AUDIO (OPTICAL) (output terminal)** — For use when connecting an amplifier with optical type digital audio input (☞ page 37).

13 ⊖ **AUDIO (output terminals)** — Standard audio outputs (FIXED) (☞ page 37).

14 ⊖ **RGB/PC (input terminal)** — For use when connecting a personal computer (PC) (☞ page 39).

15 **LAN port** — For use when connecting to network (☞ page 46).

16 ⊖ **HDMI 1 (input terminals)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device (☞ page 37).

Learning about the remote control

TV remote control
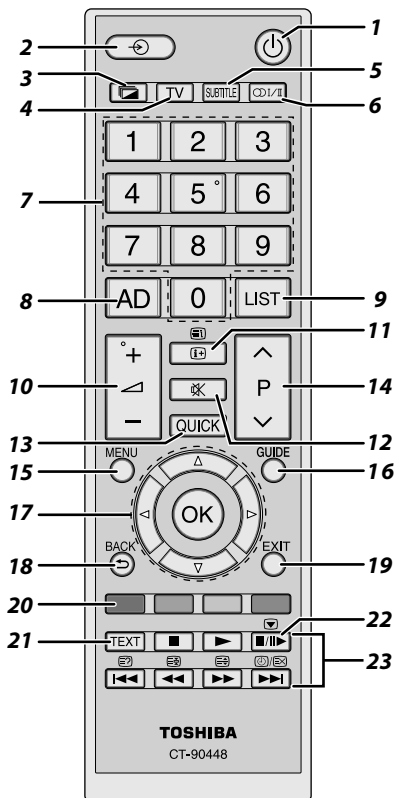
1 Power on/Standby
2 Input source selection
3 To select the Intelligent Scene Optimiser mode
4 To select ATV or DTV
5 Subtitle on/off
6 Stereo/Bilingual selection
7 Number buttons (0-9)
8 Switch the Audio Description On/Off
9 To access the analogue or digital Channel List
10 Volume – + (These buttons adjust the volume level.)
11 • ⊞ To display on-screen information
   • ⊟ Initial/Index function for Teletext
12 Sound Mute (This button turns the sound off/on.)
13 To access the Quick Menu
14 Programme position ⌃ ⌄
15 To access the Menu
16 To display the digital on-screen Programme Guide
17 • Menu △ ▽ ◁ ▷
   • **OK**
18 To return to the previous menu
19 **EXIT**
20 Teletext control buttons (Four coloured buttons: Red, Green, Yellow, Blue)
21 Teletext on/off
22 Picture still
23 When using the Media Player (▶ ▶▶ ◀◀ ■ ▌▌/▐▌▶ ▶▶▌ ◀◀▌)
   When using the Teletext (▤ ▦ ⏱/▣ ▤)

9

Easy remote control
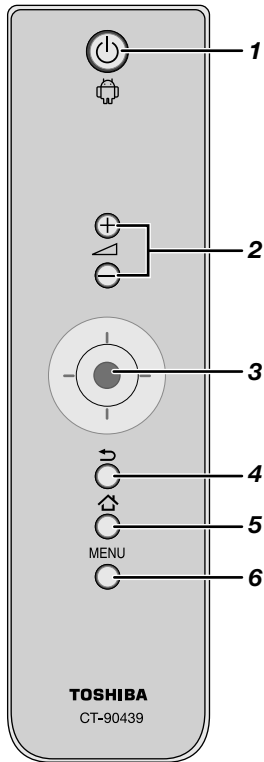
1   Power on/Standby
        The home screen appears.
2   Volume – + (These buttons adjust the volume
        level.)
3   Pointing key
4   To return to the previous menu
5   To access the Home
6   To access the Menu

Using the pointing key

Move the pointer
Tilt the pointing key to move the screen pointer in
the tilted direction.

Pointing key
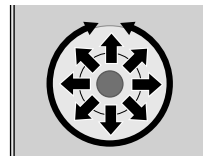
Select/Confirm
Press the pointing key to confirm the selection.

Hold and move
Press, hold, and then tilt the pointing key to hold
and move the selected item.

Connecting the AC power cord to your TV (for 40L555∗ Series / 50L555∗ Series)

1   Push the AC power cord plug firmly into the
        AC IN connector on the back of the TV.

AC power code (supplied)
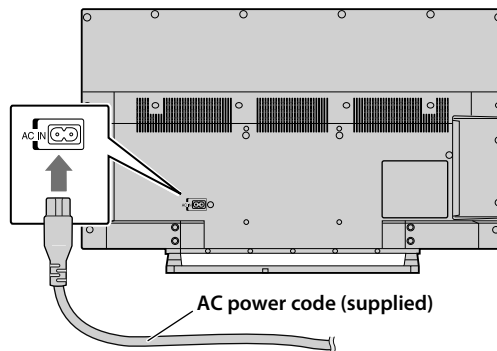
Tuning the TV for the first time

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 set up the network simultaneously, refer to "To connect the TV to a home network - Wired" (☞ page 46) or "To connect the TV to a network Wireless" (☞ page 46) beforehand to prepare the TV.

1 Press the ⏻ button on the TV remote control.

The **Welcome** screen will appear. This screen will appear the first time that the TV is switched on.

Use the **Easy remote control** in steps 2 and 3.

NOTE:
Certain expressions used in the GUI of this product may not correspond to the TV (e.g., touch/phone/tablet).

2 Select a language, and press the pointing key.

3 Select **Start**, and press the pointing key.

Hereinafter follow the on-screen instructions to continue setting up.

Set up the wireless LAN	Configure the wireless LAN settings. You can skip this step and configure the settings later.(☞ page 47)

▼

Set up Google™	If you do not have a Google account, a screen appears prompting you to register an account.

▼

Confirm the Google positioning	Read the on-screen explanation. If you will not use the function or allow access, uncheck the box.

▼

Confirm the time zone, date and time	Select and change the items if necessary.

▼

Set the owner	Select ▶ to skip this step. Set this later on if necessary.

When the Android setup is complete, the **Country** setup screen appears.

Proceed to the TV initial setup.

NOTE:
If you press the ⏻ button on the Easy remote control to start the operation, the Home screen appears and the setup ends.

- The actual screen may differ in appearance.

To set up the TV Application next, select the 📺 *icon on the screen, and press the pointing key to start the TV.*

Use the **TV remote control** from Step 4 onwards.

4 Press ▽,△, ◁ or ▷ to select the country and press **OK**.
- When the message screen is displayed, select **Next** and press **OK**.
- If you select **Indonesia**, the **Postal Code** input screen is displayed. Use the **Number** buttons to enter your postal code, select **Next**, and then press **OK**.

NOTE:
Depending on the broadcast environment, this TV may not be able to receive certain broadcasting in whole or in part. Any guarantee of reception of broadcasting is hereby disclaimed.
When this TV cannot receive digital broadcasting, please select the ATV (analogue channel) as the Tuning Mode.
For region where digital broadcasting is not available or cannot be received because of the difference in broadcasting system, please use the ATV (analogue channel) as the Tuning Mode.

11

5 Press ▽,△, ◁ or ▷ to select the **Primary Subtitle Language**, **Secondary Subtitle Language**, **Primary Audio Language** or **Secondary Audio Language**.

Quick Setup		
Primary Subtitle Language	◀ **English**	▶
Secondary Subtitle Language	English	
Primary Audio Language	English	
Secondary Audio Language	English	
	Next	
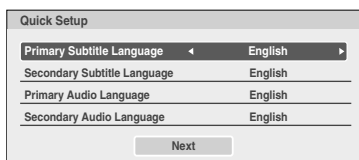
6 Select **Next** and press **OK** to display the **Location** menu.
Press ◁ or ▷ to select **Store** or **Home**.
You can select either **Home** or **Store** mode.
Home is recommended for normal home use.
Select **Store** when using a TV for displaying in a shop, etc.

Location
To use the TV for displaying in a store showroom, please select [Store]. [Home] mode is recommended for normal use.
Store   Home
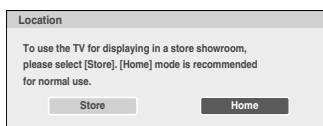
Store mode:
• A confirmation menu will appear.
• **Intelligent AutoView** menu is not available.

7 Press **OK** to display the **Intelligent AutoView** menu (☞ page 21).
Press ◁ or ▷ to select **Yes** or **No**.

Intelligent AutoView
Intelligent AutoView mode automatically adjusts picture settings to suit ambient light conditions. Do you wish to enable Intelligent AutoView mode?
Yes   No

• When you select **No**, skip to step 9.

8 Press **OK** to display the **Lighting Type** menu.
Press ◁ or ▷ to select **Fluorescent Light** or **Light Bulb**.
• Set the ambient light environment to help **Intelligent Auto View** function more effectively (☞ page 21).

Lighting Type
To use the TV under the bluish lighting environment, please select [Fluorescent Light]. To use the TV under the orangish lighting environment, please select [Light Bulb].
Fluorescent Light   Light Bulb
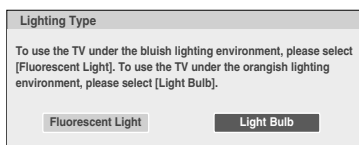
9 Press **OK** to display the **Auto Tuning** setup menu.

Auto Tuning		
Tuning Mode	◀ DTV and ATV	▶
Scan Type	Quick Scan	
Auto Signal Booster	On	
	Start Scan	
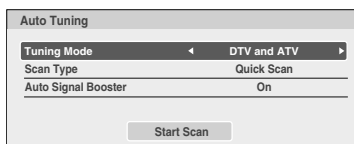
10 Select **Start Scan** and press **OK** to start the automatic search.

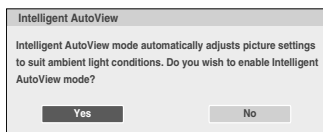The television will start to search for available **DTV** and/or **ATV** channels. The progress bar will indicate the scan status.

You must allow the television to complete the search.

Auto Tuning		
Progress		Found
DTV	1%	0
ATV	Waiting...	
	Frequency : 218.000 MHz	
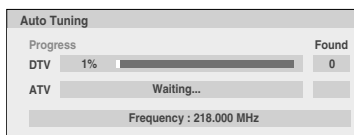
When the search is complete, the search result is displayed.

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

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

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

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

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

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

NOTE:
*The **Quick Setup** menu can also be displayed from the **SETUP** menu at any time while watching TV broadcasts.*

12

You can enjoy visual or audio content, applications, and TV broadcasts (or external input) by starting TV Application.

Home screen

- The actual screen may differ in appearance.

Turning the TV on

Switching on the TV

Connect the power cord to a wall outlet, the ⏻/❙ power indicator lights in red (standby mode).

Using the TV remote control

1 Press ⏻ on the TV remote control, the ⏻/❙ power indicator lights in green.

The TV Application starts up, and the TV broadcast (or external input) appears.

NOTE:
If you watch black and white programmes when the **Colour System** *mode is set to* "**PAL**" *(factory set), 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 pages 17, 67).*

Using the Easy remote control

1 Press ⏻ on the Easy remote control, and the ⏻/❙ power indicator lights up in green.
- When **Quick Start** (☞ page 50) is set to **Off**, the TOSHIBA logo will be displayed, followed by the home screen.

Using the TV itself

1 Press ⏻/❙ on the TV left side panel, and the ⏻/❙ power indicator lights up in green.

The previously displayed screen appears.

Switching off the TV

1 Press ⏻ on the remote control or ⏻/❙ on the TV left side panel to switch to the standby mode.

NOTE:
- *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.*
- *The TV will automatically turn off in 15 minutes based on* **No Signal Power Down** *settings (☞ page 28) if no signal is detected.*
  The TV will automatically turn itself off after approximately 2 hours if you do not operate the TV after turned on by on timer function.
- *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.*

Displaying the home screen

If you press ⌂ on the Easy remote control while viewing the TV broadcast (or external input), the home screen appears.

- For operations on the home screen, refer to page 42.

Watching the TV

To start the TV Application and switch to the TV broadcast (or external input) while on the home screen, perform either of the following:

- Select the [icon] and confirm.

- The actual screen may differ in appearance.

NOTE
If **BACK** *on the TV remote control is pressed twice, the TV Application closes.*

13

Using the TV's features

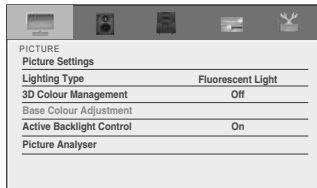Use the TV remote control while watching TV broadcasts (or external input).

Learning about the menu system

We suggest you familiarize yourself with the display charts before using the menu system:
- Press **MENU** to display menu, then press ◁ or ▷ to select main menu headings.
- Press ▽ or △ to select an item.
- Press ◁ or ▷ to select or adjust setting.
- Press **OK** to display the next menu.

Displaying the menu chart

PICTURE

PICTURE
Picture Settings	
Lighting Type	**Fluorescent Light**
3D Colour Management	**Off**
Base Colour Adjustment	
Active Backlight Control	**On**
Picture Analyser	

◁   ▷

SOUND

SOUND
MTS	**Auto**
Dual	**Dual 1**
Balance	0
Sound Mode	**Auto**
Advanced Sound Settings	
Audio Distortion Control	**On**
TV Mounting	**Stand**
Dynamic Range Control	Low
Audio Level Offset	
Audio Description	

◁   ▷

APPLICATIONS

APPLICATIONS
Guide	
Media Player	
Programme Timers	
On Timer	
Sleep Timer	00:00
Continuous Viewing Timer	Off
System Settings	

◁   ▷

PREFERENCES

PREFERENCES
Teletext	**Auto**
Teletext Language	**4**
Display Settings	
AV Connection	
Energy Saving Settings	
Blue Screen	**On**

◁   ▷

SETUP

SETUP
Country	**Singapore**
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Quick Setup	
Location	**Home**
System Information	
Reset TV	

NOTE:
- *In the video input mode (VIDEO, HDMI and PC),* **Country**, **Auto Tuning**, **ATV Manual Tuning, DTV Manual Tuning** *and* **Quick Setup** *are not available.*
- *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* **BACK***.*
- *In the PC input mode,* **PC Settings** *is available in the* **Display Settings** *menu (☞ page 40).*
- *When you use the colour management function (☞ page 23), you can select the* **Base Colour Adjustment** *menu.*

14

Using the Quick Menu

Quick Menu helps you access some options quickly, such as **Picture Mode**, **Media Player** etc.
Press **QUICK** to display the **Quick Menu** and use ▽ or △ to select the option.

Quick Menu		
Picture Mode	◄	Standard ►
Sound Mode		Dynamic
Picture Size		
More Information		
Channel Options		
Media Player		
Sleep Timer		00:00
Power Bass Booster		Off ▼
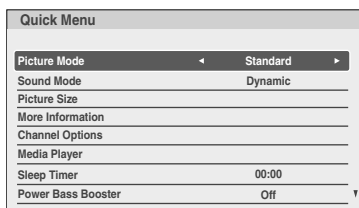
NOTE:
Quick Menu *items are different depending on the current mode.*

Quick menu item	Description
Picture Mode	☞ page 21.
Sound Mode	☞ page 25.
Picture Size	☞ page 19
More Information	☞ page 29
Channel Options	☞ page 31
Media Player	☞ page 52
Sleep Timer	☞ page 27.
Power Bass booster	☞ page 25
Signal Booster	☞ page 17
Interval Time	☞ page 54.
Repeat	☞ pages 54, 55, 57.
TV Application	☞ page 50
System Settings	☞ page 44
PICTURE	☞ page 19.
SOUND	☞ page 25.
Subtitle Encode Type	☞ page 58.

Watching TV programmes

Selecting the country

You can select a country. If the **Country** setting is changed, the **Quick Setup** starts again.

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

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

SETUP	
Country	Singapore
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Quick Setup	
Location	Home
System Information	
Reset TV	
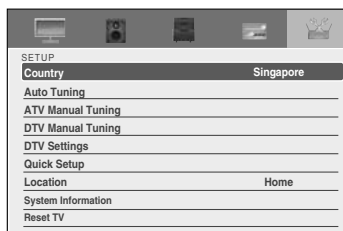
Quick Setup confirmation screen will appear.

3 Press ◁ or ▷ to select **Yes**, and press **OK**.

4 Press ▽,△, ◁ or ▷ to select the desired country.

Once the **Country** has been selected, you will proceed to the **Primary Subtitle Language**, **Secondary Subtitle Language**, **Primary Audio Language** and **Secondary Audio Language** settings, and then to the **Auto Tuning** settings. **(**☞ page 12**).**

NOTE:
Depending on the broadcast environment, this TV may not be able to receive certain broadcasting in whole or in part. Any guarantee of reception of broadcasting is hereby disclaimed.
When this TV cannot receive digital broadcasting, please select the ATV (analogue channel) as the Tuning Mode.
For region where digital broadcasting is not available or cannot be received because of the difference in broadcasting system, please use the ATV (analogue channel) as the Tuning Mode.

15

Changing the position

Enter the desired position number using the **Number** buttons on the remote control.

You can also change the position by using **P∧** or **P∨**. The position will be displayed on the screen.

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

Displaying the on-screen information

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

Programming channels into the TV's channel memory

- First, use the Auto Tuning function to preset all the active channels in your area automatically. Then, arrange the preset channels with the Manual Tuning function so that you can tune into only desired channels.
- Use the Manual Tuning operation if desired channels cannot be preset with the Auto Tuning or if you would like to preset channels to specific position numbers one by one.

Auto Tuning

1 From the **SETUP** menu, press ▽ or △ to select **Auto Tuning**.
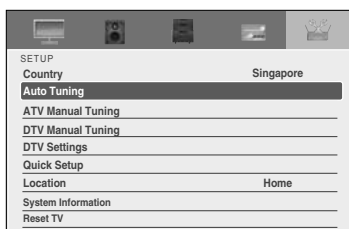
2 Press **OK**.

The **Auto Tuning** menu will appear.
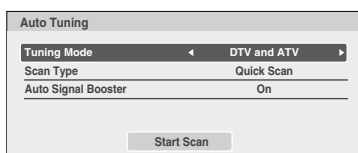
Press ▽ or △ to select **Tuning Mode**, **Scan Type** or **Auto Signal Booster** and press ◁ or ▷ to select an option.

Tuning Mode:
Press ◁ or ▷ to select **DTV and ATV**, **DTV** or **ATV**.

Scan Type (only for Tuning Mode DTV and ATV or DTV mode)**:**
Press ◁ or ▷ to select **Quick Scan** or **Full Scan**. The **Quick Scan** is a simplified version of the **Full Scan** that is designed to complete in less time.

NOTE:
*If you select **Full Scan**, it takes a long time.*

Auto Signal Booster:
Press ◁ or ▷ to select **On** or **Off**. If the receiving signal is weak/strong and the picture is noisy, the picture may be improved when using this function.

3 Press ▽ or △ to select **Start Scan** and press **OK**.

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

You must allow the television to complete the search.

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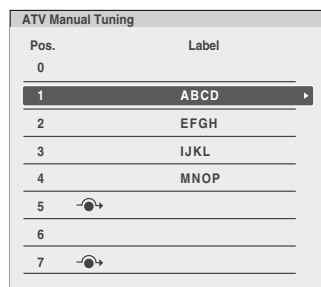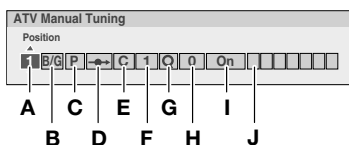
ATV Manual Tuning

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 programme position you want to arrange.

3 Press **OK** to display the breakdown menu.

Press ◁ or ▷ to select an item, then press ▽ or △ to select the item as shown below.

A. Position selection

B. System (Sound) (☞ page 67**)**

C. Colour System (☞ page 67**)**

    P : PAL (factory set),**S** : SECAM,
N4 : NTSC 4.43 (MHz), **N3** : NTSC 3.58 (MHz)
If the colour of a certain channel is abnormal, the colour system selection may have malfunctioned, or sound system selection is wrong. In such a case, select another colour and/or sound system (☞ page 67).

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 a position number when you use the **Number** button on the remote control.

E. Signal Class

The channel classification.

F. Channel

The channel number on which a station is being broadcast.

G. 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.

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

I. Signal Booster
If the receiving signal is weak/strong and the picture is noisy, the picture may be improved when using this function.
Press the ▽ or △ to turn the **Signal Booster On** or **Off**.

J. Label
Station labels appear on the right side of the programme 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 ◁ or ▷.
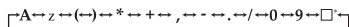
         *(blank space)

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

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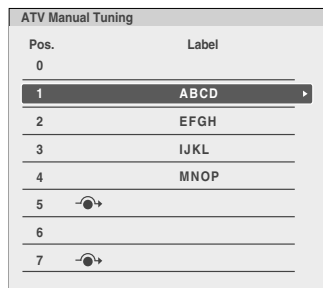
3 Use ▽ or △ to move through the list to your preferred position. As you do so, the other channels will move to make room.

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

17

DTV Manual Tuning

NOTE:
The content of this menu varies depending on the DTV input that is currently selected.

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 press **OK**.

```
DTV Manual Tuning

                  WEAK          AVERAGE          STRONG
Signal Strength  ▨▨▨▨▨▨▨▨▨▨▨▨▨▨▨▨▨▨▨▨▨▨▨
Quality              GOOD          100%

Channel              ◀              25              ▶
Frequency                        506.0 MHz
Bandwidth                          8 MHz
Signal Booster                      On

                     Start Scan
```

2   Enter the multiplex number, using ◁ or ▷ to increase or decrease the number.

3   Select **Start Scan** and press **OK**.

The television will automatically search for that multiplex.

```
DTV Manual Tuning

               1 New Channels – Total 6

New    Pos.         Name              Type
 ◆      1          ABC ONE            ▭
        2          ABC TWO            ▭
        7          ABC THREE          ▭
        40         ABC 24             ▭
        51         ABCi               ▭       ▼
```

When the multiplex is found, any channels that are not currently in the channel list will be added and the channel information at the top of the screen will be updated. ("◆" icon appears on the **New** column of the newly added channels.)
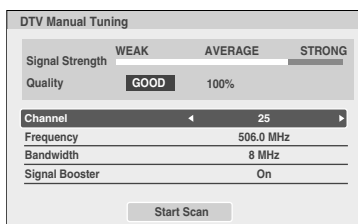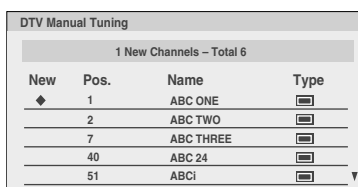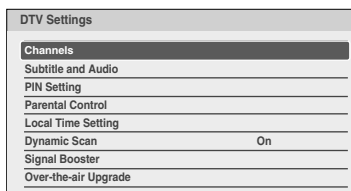
4   Repeat as necessary. Press **EXIT** to finish.

DTV Settings

Channels

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

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

2   Select **Channels** and press **OK**.

```
DTV Settings

Channels
Subtitle and Audio
PIN Setting
Parental Control
Local Time Setting
Dynamic Scan                        On
Signal Booster
Over-the-air Upgrade
```

3   For your convenience, you can jump to specific places in the list by **Line Number Jump.**

```
Channels

Line No.              1/10

Pos.      Name                   Type  ↲●↳
 1        ABC ONE                ▭      ↲●↳
 2        ABC TWO                ▭
 7        ABC THREE              ▭
 40       ABC 24                 ▭      ↲●↳
 51       ABCi                   ▭
 822      AA                     ▭
 823      AC                     ▭      ▼
```
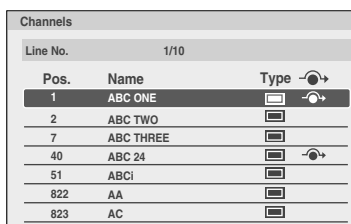
Line Number Jump—Use the **Number** buttons (0-9) to input the line number you want to select and press **OK**.

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

Move—Press the **GREEN** button to activate the **Move** feature. Press the ▽ or △ buttons to select the channel you wish to move and press **OK** to check.

If you wish to move multiple channels at once, select another channel and check in the same way. Repeat as necessary.

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

Channels			
Line No.	**1/10**		
Pos.	**Name**	**Type**	
☑ 1	ABC ONE	🖿	
☐ 2	ABC TWO	🖿	
☐ 7	ABC THREE	🖿	
☐ 40	ABC 24	🖿	
☐ 51	ABCi	🖿	
☐ 822	AA	🖿	
☐ 823	AC	🖿	▼

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

Dynamic Scan

If the broadcast information has changed in your Digital Broadcasting receiving area, the TV detects the changes and add the new channels automatically if updated. 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 **SETUP** menu, press ▽ or △ to select **DTV Settings** and press **OK**.

2 Press ▽ or △ to select **Dynamic Scan** and press ◁ or ▷ to select **On** or **Off**.

Signal Booster

You can set the Signal Booster to On or Off.

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

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

3 Press ▽ or △ to select **Channel** and press the **RED** button 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**.

Picture adjustment

• Most of the picture controls and functions are available. However, features not available will be greyed out or hidden.

Selecting the Picture Size

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

2 Press ▽ or △ to select **Picture Size,** and then press **OK**.

3 Press ▽ or △ to select the appropriate picture size, and then press **OK**.

Wide

Use this setting when watching a wide-screen DVD, widescreen 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.
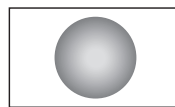
4:3

Use this setting to view a true 4:3 broadcast.
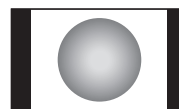
Super Live

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 the sides of the screen by zooming in and selecting the image without distortion.

19

Subtitle

When subtitles are included on a letterbox format broadcast, this setting will raise the picture so that most of the text is displayed.
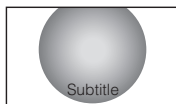
14:9

Use this setting when watching a 14:9 broadcast.

Native

This setting will display the image correctly without distortion or picture clipping.
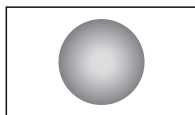
PC Normal

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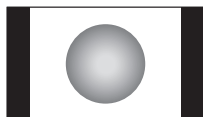
PC Wide

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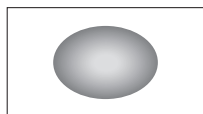
Dot by Dot

"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 (e.g. VGA input source).
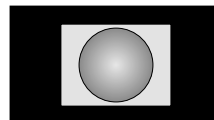
Normal

Sets the size to full screen without changing the aspect ratio when watching a video stored on a USB device.

Zoom

Sets the size to full screen keeping the 21:9 circularity ratio when watching a video stored on a USB device.
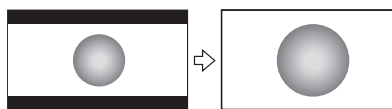
NOTE:
- *Using the special functions to change the size of the displayed image (e.g. changing the height/width ratio) for the purpose of public display or commercial gain may infringe on copyright laws.*
- *If the aspect ratio of the selected format is different from the one of the TV transmission or video programme, it can cause a difference in vision. Change to the correct aspect ratio picture size.*
- *When using the PC connected via HDMI or RGB/PC terminal, the moving image quality may be deteriorated.*

Using the picture still

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

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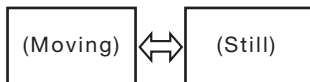
NOTE:
If you use this function except for the purpose of your private viewing and listening, it may infringe the copyright protected by the copyright laws.

Using the Intelligent Scene Optimiser

You can easily select the best picture and sound mode for what you are watching.
- Sound is affected when the **Sound Mode** is set to **Auto** (☞ page 25).

1 Press ⊡ .

The **Intelligent Scene Optimiser** window will appear at the bottom of the screen.

2 Press ◁ or ▷ to select the best mode for what you are watching, and press **OK**.
- **Auto** mode automatically sets the best picture and sound mode for what you are watching.
- The modes that can be selected differ according to the input and what you are watching.

NOTE:
*The **Intelligent Scene Optimiser** you select affects the current input only. You can select a different **Intelligent Scene Optimiser** for each input.*

Activating the Picture Mode

This TV offers the choice of personalising the picture style.

Intelligent AutoView, Dynamic, **Standard** and **Mild** are preset options and affect many features/settings within the TV.

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

PICTURE	
Picture Settings	
Lighting Type	Fluorescent Light
3D Colour Management	Off
Base Colour Adjustment	
Active Backlight Control	On
Picture Analyser	

2 Press ▽ or △ to select **Picture Mode**.

Picture Settings		
Picture Mode	◄ Standard ►
Backlight	70	
Contrast	100	
Brightness	0	
Colour	0	
Tint	0	
Sharpness	0	
Contrast Booster	Middle	▼
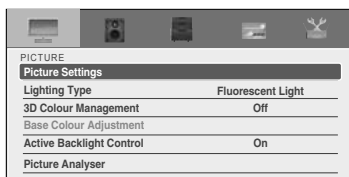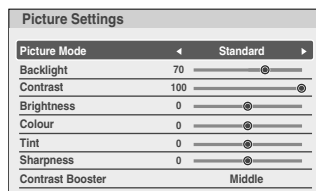
3 Press ◁ or ▷ to select your desired Picture Mode.

NOTE:
*The **Picture Mode** you select affects the current input only. You can select a different **Picture Mode** for each input.*

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 **Picture Settings** items, your new setting are saved for "**Dynamic**" **Picture Mode**.

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

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

Setting the Contrast Booster

Contrast Booster improves the definition of dark areas of the picture.

1 From the **Picture Settings** menu, press ▽ or △ to select **Contrast Booster**.

Picture Settings		
Picture Mode	Standard	
Backlight	70	
Contrast	100	
Brightness	0	
Colour	0	
Tint	0	
Sharpness	0	
Contrast Booster	◄ Middle ►	▼
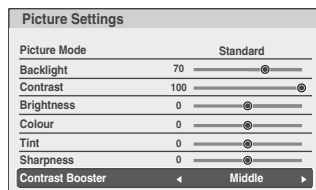
2 Press ◁ or ▷ to select **Middle**, **High**, **Off** or **Low**.

21

Using the Cinema Mode

A movie film's picture runs at 24 frames a second, whereas movie software such as DVD, etc., that you enjoy watching on TV at home runs at 30 (NTSC) or 25 (PAL) frames a second. To convert this signal to reproduce a smooth motion and picture quality, select the On mode.

Effective signal and setup conditions:
• When the Video input mode is selected.
• When the input signal format is 480i, 576i or 1080i signals.

1 From the **Picture Settings** menu, press ▽ or △ to select **Cinema Mode**.

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

NOTE:
When a DVD movie with subtitle is playing back, this mode may not work correctly.

Adjusting the Colour Temperature

Colour Temperature increases the warmth or coolness of the picture by setting the red, green or blue tint.

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

2 Press ◁ or ▷ to select **Auto**, **Cool**, **Natural**, or **Warm** to suit your preference.

Colour Temperature		
Colour Temperature	◄ Cool	►
Red Level	0	
Green Level	0	
Blue Level	0	
Reset		
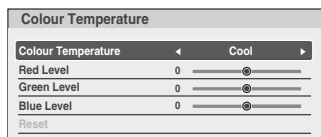
3 Press ▽ or △ to select **Red Level**, **Green Level** or **Blue Level**, then press ◁ or ▷ to adjust the setting as required.

Resetting the Colour Temperature

This function resets your colour temperature settings to the factory settings.

1 From the **Colour Temperature** menu, press ▽ or △ to select **Reset**, then press **OK**.

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

Activating the Noise Reduction (NR)

If the receiving signal of MPEG is a mosquito (grained) noise depending on the compression and conversion, the picture is weak and the picture is blurry, the picture may be improved when using this function.

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

Noise Reduction		
Auto Clean	◄ On	►
MPEG NR	Auto	
DNR	Auto	
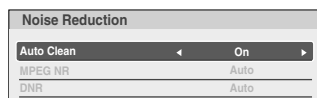
2 Select **Auto Clean**, and then press ◁ or ▷ to select **On** or **Off**.
Off mode :
MPEG NR menu and **DNR** menu are available.
• **MPEG NR** mode: **Low**, **Middle**, **High** or **Off**
• **DNR** (Digital Noise Reduction) mode: **Low**, **Middle**, **High** or **Off**

Resetting the Picture Settings

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

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

1 From the **Picture Settings** 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**.

Using the Lighting Type

Set the ambient light environment to help **Intelligent Auto View** function more effectively.
• This can be set when **Picture Mode** is set to **Intelligent Auto View**.

1 From the **PICTURE** menu, press ▽ or △ to select **Lighting Type**.

2 Press ◁ or ▷ to select **Fluorescent Light** or **Light Bulb**.

22

Adjusting the Colour Management

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

1 From the **PICTURE** menu, press ▽ or △ to select **3D Colour Management**.

2 Press ◁ or ▷ to select **On**.

3D Colour Management	◀	On	▶

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

4 Press **OK**, then press ▽ or △ to select an 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			

5 Press ▷, then press ◁ or ▷ to select **Hue**, **Saturation** or **Brightness**.

6 Press ▽ or △ to adjust the settings as required.

	Hue	Saturation	Brightness
▪ Red	▲ 0 ▼	0	0

NOTE:
*If you select **3D Colour Management Off** mode, this mode is not available.*

Resetting the Base Colour Adjustment

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

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

2 Press **OK**.

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

Using the Active Backlight Control

In order to improve screen visibility, the **Active Backlight Control** sets the screen brightness automatically during dark scenes.
- This function cannot be selected in the following cases.
  - When the input source is PC.
  - When **Intelligent Scene Optimiser** is set to **Game**.
  - When **Picture Mode** is set to **Intelligent AutoView**.

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

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

Using the Picture Analyser

Displays the picture histogram.

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

   Histogram: Shows the bright and dark areas of the displayed picture, and the distribution of colours in a graph.

   Contrast Curve: Shows the correction curve, which improves the expressive feel of the displayed picture, in a graph.

   To close the **Picture Analyser** screen, press **EXIT**.

Stereo and Bilingual transmissions (for DTV programmes)

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

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

For multi-audio track broadcasts, press ◯I/II repeatedly to change the audio language (☞ page 32).

Stereo and Bilingual transmissions (for ATV programmes)

Setting the MTS (Multi-channel TV Sound)

Auto mode

The MTS Auto mode automatically recognize 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
Sound Mode	**Auto**
Advanced Sound Settings	
Audio Distortion Control	**On**
TV Mounting	**Stand**
Dynamic Range Control	Low
Audio Level Offset	
Audio Description	
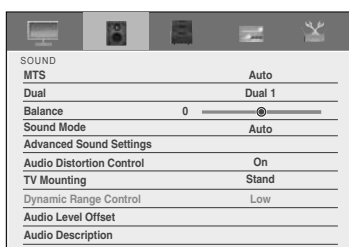
2   Press ▽ or △ to select **MTS**, and then press ◁ or ▷ to select **Auto** or **Mono**.

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 on whose channel reception is usually good, try setting MTS mode to **Auto**, then press ◯I/II to switch to ◯ Mono (monaural).*

Selecting the Dual 1 or Dual 2 mode

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

1   From the **SOUND** menu, press ▽ or △ to select **Dual**.

2   Press ◁ or ▷ to select **Dual 1** or **Dual 2**.

NOTE:
- *When the MTS setting is in **Mono** mode, the **Dual** menu is not selectable.*
- *The **Dual** menu setting status remains even if the TV is turned off.*

Selecting the stereo programmes

1   When a stereo programme is received, ◯ **Stereo** appears.

> 4 ◄◉► ABCD   ◯ Stereo
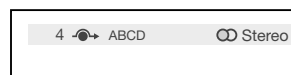
2   Press ◯I/II to select the stereo/monaural mode. ◯ **Stereo** and ◯ **Mono** appear cyclically on the screen.

Selecting the bilingual programmes

1   When a bilingual programme is received, ●◯ **Dual** appears.

2   Press ◯I/II to select the sound to be heard. The sound differs according to the transmission system: NICAM or German stereo/bilingual broadcast.

Display	Sound to be heard	
	NICAM	**German stereo/bilingual broadcast**
●◯ Dual 1	Sub I sound	Main sound
◯● Dual 2	Sub II sound	Sub sound
◯ Mono	Main sound	—

NOTE:
These settings are not stored in the TV memory.

Selecting the monaural programmes

If sound distortion, interruptions or silence arises in the low sound volume level, setting the ◯ **Mono 2** mode will mitigate the problem.

1   When a monaural programme is received, ◯ **Mono** appears.

2   Press ◯I/II to select a monaural mode that is easy to hear. ◯ **Mono 1** and ◯ **Mono 2** appear cyclically to the screen.

NOTE:
*On some cases, the reception of stereo/bilingual broadcasts may not be possible after switching on the ◯ **Mono 2** mode.*

Sound adjustment

Adjusting the sound balance

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

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

Using the Sound Mode

Choose your preferred **Sound Mode** (**Auto**, **Dynamic, Natural** or **Clear Voice).**

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

2 Press ◁ or ▷ to select **Auto**, **Dynamic**, **Natural** or **Clear Voice**.

Adjusting the sound quality

You can adjust the basic sound quality.

NOTE:
This can be set when **Sound Mode** *is set to* **Dynamic**, **Natural** *or* **Clear Voice**.

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

2 Press ▽ or △ to select **Graphic Equaliser**, and then press **OK**.

3 Press ◁ or ▷ to select a frequency band, and press the ▽ or △ to adjust the level for that band.

Using the Power Sound Equaliser

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

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

Using the Surround

Surround help to create rich and wider sound from stereo sound sources.

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

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

Using the Power Bass Booster

Power Bass Booster helps to create rich bass.

1 From the **Advanced Sound Settings** menu, press ▽ or △ to select **Power Bass Booster**.

2 Press ◁ or ▷ to select **Normal**, **Super** or **Off**.

NOTE:
This may not have an effect, depending on the audio source.

Resetting the Advanced Sound Settings

This feature resets the **Advanced Sound Settings** to the factory settings.

NOTE:
If no sound settings have been changed, **Reset** *is not available.*

1 From the **Advanced Sound Settings** 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**.

Using the Audio Distortion Control

Prevents audio distortion.

1 From the **SOUND** menu, press ▽ or △ to select the **Audio Distortion Control**.
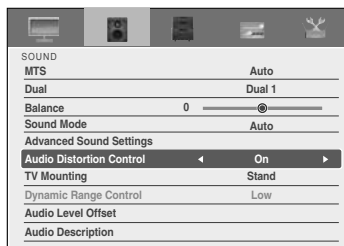
2 Press ◁ or ▷ to select **On** or **Off**.

Selecting the TV Mounting (Wall/Stand)

TV Mounting feature can provide an appropriate sound depending on the TV installation type, that TV is installed on a wall or a TV stand.

1 From the **SOUND** menu, press ▽ or △ to select **TV Mounting**.

2 Press ◁ or ▷ to select **Wall** or **Stand**.

405055L5550Series_EEEV_En.indd   25   27/05/18   13:14:57

Using the Dynamic Range Control

This feature allows control of compression for Dolby Digital and Dolby Digital Plus.

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

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

NOTE:
When the **Dynamic Range Control** *is set to* **High***, the* **Audio Distortion Control** *changes to* **Off***.*

Using the Audio Level Offset

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

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

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

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

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

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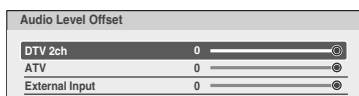
NOTE:
- *The available item changes depending on the current input source. For example, while watching a DTV 2ch programme, only* **DTV 2ch** *is available and the other two items are greyed out in the menu. This allows you to easily adjust according to each condition.*
- *When watching a DTV 5.1ch programme,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

Audio Description

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

1   From the **SOUND** menu, press ▽ or △ to select **Audio Description** and press **OK**.

2   Press ▽ or △ to select **Audio Description** and press ◁ or ▷ to select **On**.

Audio Description		
Audio Description	◄ On	►
Mixing Level	80	
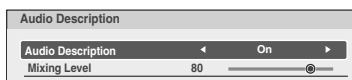
3   To adjust the level of the audio description sound to the main sound, select **Mixing Level** and press ◁ or ▷.

NOTE:
This may be unavailable depending on the conditions.

Other features settings

Programme Timers – digital only

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

1   From the **APPLICATIONS** menu, press ▽ or △ to select **Programme Timers**, and press **OK**.

APPLICATIONS	
Guide	
Media Player	
Programme Timers	
On Timer	
Sleep Timer	00:00
Continuous Viewing Timer	Off
System Settings	
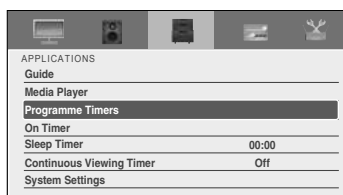
The list of **Programme Timers** appear on screen.

2   Select an empty line, and press **OK**.

The **Edit timer** menu appear on screen.

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

Edit Timer	6:00 Wed, 10 Apr 2015
Channel	◀ ⬚ 000ABC2 ▶
Date	Wed, 10 Apr 2015
Start Time	07:00
Repeat	Once
Set Timer	Delete Timer
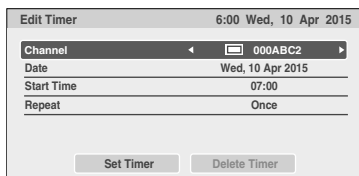
4 When all of the details have been entered, select **Set Timer** and press **OK** to save the timer.

PLEASE NOTE:
When a timed programme is about to start, an information screen will appear offering the option of watching or cancelling the programme.
It will only be possible to create or edit programme timers for the currently tuned DTV input.

Setting the On Timer menu

The feature allows you to set the TV to turn on automatically to a preset position or input.

1 From the **APPLICATIONS** menu, press ▽ or △ 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 ▶
Power On Time	00:00
Repeat	Once
Input	DTV
Position	55
Volume	30 ⬤
Done	
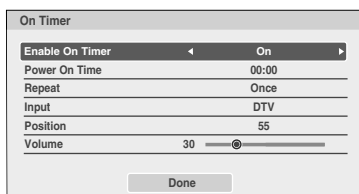
3 Press ▽ or △ to go through the list adding the details of the On Timer by using the **Number** buttons and ◁ or ▷ to make selections and press **OK**.

Power On Time: Set the time you prefer with the number buttons.

Repeat: 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**, **HDMI 1**, **HDMI 2**, **HDMI 3** or **PC**).

Position: Set the position that will be tuned when the TV turns on.

Volume: Select the volume level that will be set when the TV turns on.

4 When all the details have been entered, select **Done** and press **OK** to start the timer.

To cancel the On Timer

1 From the **On Timer** menu, press ▽ or △ to select **Enable On Timer**.

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

NOTE:
The TV will automatically turn itself off after approximately 2 hours if you do not operate the TV after turned on by on timer function.

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 Timer**, enter all zeros for the step 2.

Using the Continuous Viewing Timer

To prevent watching TV continuously for long periods of time, you can set a message to appear that suggests that the viewer takes a break. This is especially useful for stopping children from watching TV for long periods of time.

1 From the **APPLICATIONS** menu, press ▽ or △ to select **Continuous Viewing Timer**.

2 Press ◁ or ▷ to select **60 min**, **120 min**, **180 min** or **Off**.

When the set time has passed, a message suggesting the viewer takes a break appears.

Press **OK**, **BACK** or **EXIT** to clear the message.

NOTE:
- *If the power is turned off before the set amount of time has passed, the timer is reset.*
- *If the set amount of time is changed, the timer is reset.*

Using the Auto Format

When **Auto Format** is **On** and the TV receives a digital broadcast or a true HDMI signal picture, it will automatically be displayed in the appropriate format according to the signal information, irrespective of the TV's settings.

1 From the **Display Settings** in the **PREFERENCES** menu, press ▽ or △ to select **Auto Format**.

Display Settings		
Auto Format	◄ Off	►
4:3 Stretch	Off	
PC Settings		
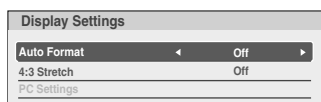
2 Press ◁ or ▷ to select **On** or **Off**.

Activating the 4:3 Stretch

When 4:3 stretch is activated, this function will switch 4:3 format programmes into a full screen picture.

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

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

NOTE:
This feature is not available when **Auto Format** *is set to* **Off***.*

Activating Blue Screen

When **Blue Screen** is set to **On**, the screen will turn blue and the sound will be muted when no signal is received.

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

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

NOTE:
Some external inputs may not mute the sound.

Eco Mode

In **Eco Mode***, the screen becomes slightly darker and you will be able to reduce power consumption.*

NOTE:

The Backlight adjustment is not available in **Eco Mode***.*

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

2 Press ▽ or △ to select **Eco Mode** and press ◁ or ▷ to select **On** or **Off**.

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 **PREFERENCES** menu, press ▽ or △ until **Energy Saving Settings** is selected, and then 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**.

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

Setting the Power Saving Indicator

You can display the current power saving status.

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

2 Press ▽ or △ to select **Power Saving Indicator** and press ◁ or ▷ to select **On** or **Off**.

Press [i+] when the **Power Saving Indicator** is **On** to display the **Saving Level**.
• The longer the **Saving Level** display bar is, the higher the power save effect is.
• The saving level is also displayed when the **Picture Mode** or **Backlight** settings are changed.

Digital on-screen information and Programme Guide

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

Information

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

Display Example

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

To display More Information

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

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

On-screen Information icons

	Icon	Description
Service info	▣ ▥ ☰	Service type (TV, Radio, Text)
	👁	Skip
	▂▃▅	Signal strength
	🔒	Locked status
	⬇	Update*
Audio info	⬠	Mono
	⬡	Stereo
	○●	Dual mono
	⬡⋯	Surround
	Dolby Digital	Audio Coding
	Dolby Digital Plus	
	HE-AAC	
	AD	Audio Description

	Icon	Description
Event info	HD, SD	Video format (HD, SD)
	16:9, 4:3	Video Aspect
	☰	Teletext
	⊡⋯ ⊡⋯	Subtitle (Single, Multi)
	🔊 🔊	Audio track (Single, Multi)
	4 – 18 (G, PG, PG13, NC16, M18, R21)	Parental rating
	🔗	Encrypted
Timer info	✓	Reminder

* Also displayed when **Later** is selected on the **Dynamic Scan** confirmation screen.

Genre icons

One of the following Genre icons is displayed, depending on the type of programme being broadcast.
- The Genre icon displayed is based on information received with the broadcast.

Icon	Genre name
🎬	Movie
🖥	News
💻	Entertainment
🎿	Sports
🎠	Children's
🎵	Music
🎨	Arts
📈	Factual
📖	Education
🏠	Lifestyle
⭐	Special

405055L5550Series_EEEV_En.indd   29   27/05/18   13:14:58

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.

	Tue 22					5:48 Tue, 22 Apr 2015
TV		6:00	6:30	7:00	7:30	8:00	8:30
1 ABC HDTV	World Business Today		Big Brother's Little Brother		World Business...	
2 ABC1	Seven Wonders of Ancient Rome	Battlefield Detectives		Hope & Faith1	Hope & Faith2
3 ABC2	ITV Morning News		ITV Morning News		World News	
4 ABC3		Balairlory	ITV Morning...	Seven Wonders of Ancient Rome	
5 ABC4	Seven Wonders of Ancient Rome	Hope & Faith		Hope & Faith	Hope & Faith
6 ABC ONE	ABC News 24		ABC News 24		ABC News 24	
7 ABC TWO	Kickstart Natural Born Dealers	Zoo Story		Animal Cops...	Animal Cops...
8 ABC THREE	World News Today			Go, Diego, Go!	World News Today	World News Today
9 ABC NEWS 24	Big Brother Live	Go, Diego, Go!	vets in Hong Kong	Hope & Faith	vets in Hong Kong
10 ABCi	vets in ABC		vets in ABC epsode 12	ABC world	
11 ABBC Channel	World's Toughest		World's Toughest		World's Toughest	
12 TF1 HD	Zoo Story	Fimbles	Zoo Story		Zoo Story2	Zoo Story3
13 ABCD 2 HD	Good Morning Sports Fan	Animal Cops Houston			Animal Cops...

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

Using the Guide

Button	Operation
▽ or △	Changes the channel.
◁ or ▷	Selects a programme.
P⌃ / P⌄	Displays the next or previous page.
◀◀ or ▶▶	Changes the time.
◀◀◀ or ▶▶▶	Changes the date.
[i+]	Displays information about the selected programme.
RED button	Returns to the current time display.
GREEN button	Switches the time scale to 1.5 or 3 hours.
BLUE button	Displays the **Programme Timers** list. You can set programme timers from the **Programme Timers** list (☞ page 26).

- Select a programme currently being broadcast and press **OK** to switch to that programme.
- Select a programme that will be broadcast later and press **OK** to open the **Edit Timer** menu .
- To close the Guide, press **GUIDE**.

Digital settings – parental control

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

Parental PIN Setup

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

SETUP	
Country	Singapore
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Quick Setup	
Location	Home
System Information	
Reset TV	
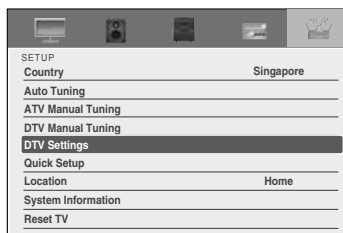
2 Press ▽ and △ to select **PIN Setting** and press **OK**.

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

PIN Setting	
New PIN	✱ ✱ ✱ ✱
Confirm PIN	✱ ▪ ▪ ▪
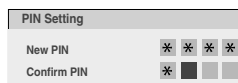
The PIN number is now set.

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

To change or delete your PIN code:

1 In the **DTV Settings** menu, press ▽ or △ to select **PIN Setting** menu and press **OK**.

2 Press the Number buttons to enter your four digit PIN code.

3 Select **Change PIN** or **Delete PIN** and press **OK**.

Parental Control

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

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

2 Use the number buttons to enter your four digit number.

3 Press ◁ or ▷ to adjust the setting.
- The setting values will differ depending on the country selected for **Country**.

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

Digital settings – Channel Options

Selecting favourite channels

Favourite Channels creates a list of the digital channels that are watched most. Four lists can be created, they can be a mixture of television, radio and text channels.

1 Select a channel you want to add to your favourite list.

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

3 Press ▽ or △ to select **Channel Options** and press **OK**.

4 Press ◁ or ▷ repeatedly to select the favourite list (☆).

5 Press **OK** to select the ones required. A tick will appear in the box as they are selected.

6 Repeat steps 1 through 5 for other channels.

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

Favourite Channel Lists

1 Press **LIST** to display **Channel List**.

2 Press ◁ or ▷ to select Favourite Channels. The number of favourites available depends on how many lists have been created.

Channel List
◀ **Favourites** ▶
▢ 6 M6
▢ 9 W9
▢ 11 NT1
▢ 31 PARIS PREMIERE
▢ 34 AB1
▢ 51 ITV1

3 Press ▽ or △ to select a channel and press **OK** to watch.

Skip channels

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

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

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

3 Press ◁ or ▷ repeatedly to highlight 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 still be accessed by direct number entry (when tuned a ↩ icon will be displayed in the banner to indicate as a skipped channel).*

Locking channels

Locking Channels stops the viewing of digital channels, and they can only be accessed by entering the PIN.
- A PIN must be set beforehand in PIN Setting (☞ page 30).

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

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

3 Press ◁ or ▷ 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 the 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 accessed.

Digital settings – other settings

Subtitles

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

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

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

Subtitle and Audio		
Subtitle Display	◀ Off	▶
Subtitle Type	Normal	
Primary Subtitle Language	English	
Secondary Subtitle Language	Vietnamese	
Primary Audio Language	English	
Secondary Audio Language	Vietnamese	

3   Press ▽ or △ to select **Subtitle Type** and press ◁ or ▷ to select **Normal** or **For Hard of Hearing**.

4   Press ▽ or △ to select **Primary Subtitle Language** or **Secondary Subtitle Language** and press ◁ or ▷ to select an option.

The **SUBTITLE** button can be used to select subtitle on or off for the current channel only and to select the subtitle language if more than one subtitle is available.

Audio languages

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

1   From the **Subtitle and Audio** menu, press ▽ or △ to select **Primary Audio Language** or **Secondary Audio Language** and press ◁ or ▷ to select an option.

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

Postal Code

This is displayed only when **Country** is set to **Indonesia**.

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

2   Use the **Number** buttons to enter your postal code.

Local Time Setting

The clock that is displayed while watching the TV can be set to display time information acquired via the internet or time information acquired via a digital broadcasting signal.
•   When purchased, the TV displays time information acquired via the internet.

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

2   Press ▽ or △ to select **Enable DTV Clock** and use ◁ or ▷ to select **On**.

   This changes the time displayed when watching the TV to the time received via the digital broadcasting signal. The time received by the DTV Clock is displayed.
   If the time needs to be adjusted according to the area in which you live, perform the following procedure.

3   Press ▽ or △ to select **Offset** and use ◁ or ▷ to adjust the time.

   The time can be adjusted in 30 minute increments. The adjusted time is displayed in Display Clock.

NOTE:
*When **Enable DTV Clock** is set to **On**, the time that is displayed on the information screen, the Guide screen and other screens when watching the TV is the time received via the digital broadcasting signal.*
All timers operate according to time information acquired via the internet.

Signal Booster

Set the DTV **Signal Booster**.

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

   The **Signal Booster** screen appears, and the signal strength of each channel is displayed in a bar.

2   Press ▽ or △ to select a channel to set the **Signal Booster** for.

3   Press **RED** button.

   Switch between **On** and **Off** for the **Signal Booster** setting for the selected channel.

   Repeat steps 2 and 3 to set **Signal Booster** for each channel.

Selecting the video input source to view

1 Press ⟳ on the remote control until the video input mode list appears on the screen, then press ▽, △ or ⟳ to select appropriate input source (or touch ⊡ / ⟳ and ⋀ or ⋁ on the TV left side panel to select required input source directly).

Inputs
TV
VIDEO1
VIDEO2
HDMI 1
HDMI 2
HDMI 3
PC
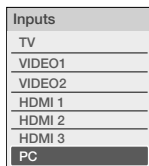
2 Press **OK**.

VIDEO1 (⟳ (1), COMPONENT/VIDEO INPUT, standard or component video input) , VIDEO2 (⟳ (2), standard video input), HDMI1, HDMI2 HDMI 3 (HDMI input), PC (⟳ RGB/PC, PC input)

NOTE:
If the **Inputs** *list is displayed by pressing ⊡ / ⟳ and ⋀ or ⋁ on the left side of the TV and ⋀ or ⋁, the options are DTV / VIDEO (1, 2) / HDMI (1, 2, 3) / PC / ATV.*

Setting the Colour System

This feature is available in Standard video (composite) inputs mode.

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

SETUP	
Country	Singapore
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Colour System	◄ Auto ►
Quick Setup	
Location	Home
System Information	
Reset TV	
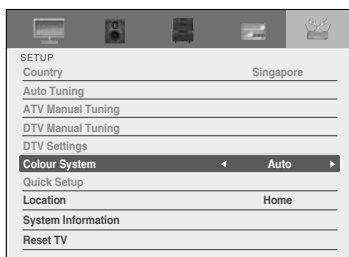
2 Press ▽ or △ to select **Colour System**, and then press ◁ or ▷ to select **Auto**, **PAL**, **SECAM**, **NTSC 4.43** or **NTSC 3.58**.

NOTE:
Confirm that **Colour System** *is set to "***Auto***". If not, select "***Auto***" with ◁ or ▷.*

Labelling video input sources

These input labels are shown in the input selector. You can label external inputs according to the devices you have connected to the TV.

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

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

Input Labelling		
Input	Label	⊙
EXT 1	◄ -- ►	
EXT 2	--	
HDMI 1	--	
HDMI 2	--	
HDMI 3	--	
PC	--	
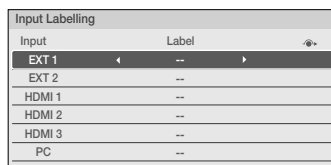
3 Press ▽ or △ to select the item you want to label and press ◁ or ▷ to select **--**, **Amplifier**, **Cable**, **DVD**, **Game**, **PC**, **Recorder**, **Satellite** or **VCR**, or press the **RED** button to turn on the skip.

4 Repeat step 3 for other video inputs.

Channel List (for ATV)

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

Channel List	
1	**ABC ONE**
2	**ABC TWO**
3	**ABC THREE**
4	**ABC 24**
5	
6	
7	
8	
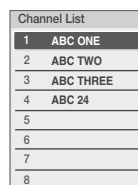
2 Press ▽ or △ to select a channel, and then press **OK**.

Confirming software version

For ATV

1 From the **SETUP** menu, press ▽ or △ to select **System Information**.

2 Press **OK** to display the software version.

NOTE:
The software version displayed is just for the illustration.

33

For DTV

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 △ to select **System Information**.

2 Press **OK** to display the Boot Code Version and APP SW Version.

System Information		
TOSHIBA 2015 **Model Name : L55 ID: XX**		
Boot Code Version: XXXX.XXXX.XXXX **APP SW Version: X.X.X.X.X (XXXXXX)**		
	WEAK AVERAGE STRONG	
CH22		GOOD
CH25		GOOD
CH16		GOOD
CH11		GOOD

3 For information about the signal quality of a particular multiplex, press ▽ or △ to select that multiplex.

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

Over-the-air Upgrade

The Over-the-air Upgrade function is used when a Software Upgrade is required for the TV in the future.

NOTE:
- *This function may not work depending on the country selected for* **Country***.*
- *The Over-the-air Upgrade may not function correctly depending on the local area broadcasting conditions, and the signal receiving environment.*

Auto Upgrade

When **Auto Upgrade** is **On**, the television automatically searches for upgrade information. When new upgrade information is found, a confirmation screen is displayed.
- Automatic searching is not performed when the television is in standby.

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

2 Press ▽ or △ to select **Over-the-air Upgrade** menu and press **OK**.

3 Press ▽ or △ to select **Auto Upgrade**.

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

Searching for New Software

If preferred, software upgrades can be searched for manually using Search for New Software.

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

2 Press ▽ or △ to select **Over-the-air Upgrade** menu and press **OK**.

3 Press ▽ or △ to select **Auto Upgrade** and press ◁ or ▷ to select **On**.

4 Press ▽ or △ to select **Search for New Software**.

5 Press **OK**. The television will automatically start searching for a software upgrade, the progress bar will move along the line.

If an upgrade is found, a message will be displayed on the television. Follow the instructions in the message. If no upgrades are found, a screen will appear stating that no upgrades are available.

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 △ to select **Reset TV**.

SETUP	
Country	Singapore
Auto Tuning	
ATV Manual Tuning	
DTV Manual Tuning	
DTV Settings	
Quick Setup	
Location	Home
System Information	
Reset TV	
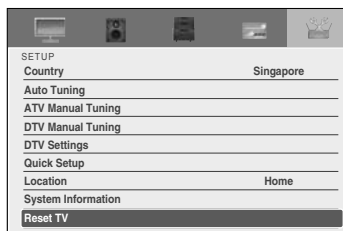
2 Press **OK** to select.

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

405055L5550Series_EEEV_En.indd   34   27/05/18   13:14:59

Teletext

This TV has a multi-page Teletext memory, which takes a few moments to load and it offers two ways of viewing Teletext **Auto** and **List** which are explained below.

Setting up the Teletext mode

To select a language for Teletext:

The language 1-4 option enables the display of different language when using Teletext.

1 From the **PREFERENCES** menu, and then press ▽ or △ to select **Teletext Language**.

2 Press ◁ or ▷ to select the required language.

- **Language 1:** English, German, Dutch, Flemish, Russian, Bulgarian, Ukrainian, Lettish, Lithuanian, Czech, Slovak, Estonian
- **Language 2:** Polish, German, Dutch, Flemish, Estonian, Lettish, Lithuanian, French, Serbian, Croatian, Slovenian, Czech, Slovak, Rumanian
- **Language 3:** English, French, Hebrew, Turkish, Arabic
- **Language 4:** English, French, Hebrew, Turkish, Farsi (Iranian/Persian)

To select Teletext mode:

Select a channel position with the desired Teletext service.

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

2 Press ◁ or ▷ to select **Auto** or **List** mode.

NOTE:
- *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 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 on the **each colour** button.

Sub-pages:

Once in this chosen page, if there are sub-pages they will automatically load into memory without changing the one you are reading. If there are many sub-pages, it will take a long time for them all to load and this will depend on the speed with which the broadcaster transmits them.
To access the sub-pages in memory, press ◁ or ▷ to view them.

Using Subtitles

1 Press **SUBTITLE** on the remote control to while the teletext screen is displayed to display subtitles. While the subtitles are displayed, press **SUBTITLE** again to change the setting.

Using Auto mode

There are two Modes: **Auto** will display FASTEXT, if available. **List** will display your four favorite pages. In either mode, as an alternative to the coloured buttons, you can access a page by entering a 3-digit number, using the **Number** buttons on the remote control, or to advance to the next page, press **P∧**, to go back to the previous page press **P∨**. To change between **Auto** and **List**, see above.

- Press **TEXT** to access teletext.
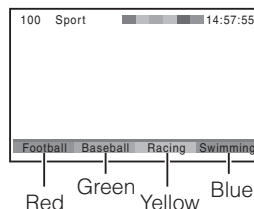
If FASTEXT is available, you will see 4 coloured titles at the base of the TV screen. To access any given subject, simply press the relevant coloured button on the remote control.
If FASTEXT is not available, you can access any page simply by entering a 3-digit page number or pressing the corresponding coloured button.
For further information on your particular text system(s), see the broadcast teletext index page or consult your local TOSHIBA dealer.

405055L5550Series_EEEV_En.indd   35
27/05/18   13:14:59

Using List mode

1 Press **TEXT** to access teletext.

```
100   TEXT   M00  ▬▬▬▬▬▬▬  14:58:55




         100      101      102      103
```
Red   Green   Yellow   Blue
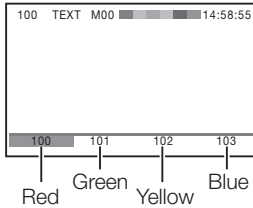
The four choices at the bottom of the screen are now number – **100**, **101**, **102** and **103**, which have been programmed into the TV's memory.

2 To view these pages, use the coloured prompt buttons.
e.g. press the Green button to view page 101.

3 If you want to change these 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.

```
101   TEXT   M00  ▬▬▬▬▬▬▬  14:58:59




         100      101      102      103
```
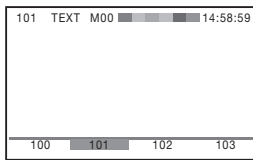
This number will change.

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 favorite already stored.

Teletext buttons on the remote control

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

[TEXT] **To display a page of teletext:**

Press **TEXT** to display teletext. Press again to return to normal TV mode.

▤ **To display an index/initial page:**

In Auto-mode
Press ▤ to access the index page. The one displayed is dependant on the broadcaster.
In List-mode
Press ▤ 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 wanted page:**

This function is included as it is part of the broadcast teletext system but you will not need it as this TV allows you to control the display of sub-pages.

▤ **To enlarge the teletext display size:**

Press ▤ once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to the normal size.

⊙/⊠ **To select a page while viewing a normal picture:**

When in teletext mode, if a page selection is made and then ⊙/⊠ is pressed, a 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 ⊙/⊠ to view the page.

NOTE:
It will not be possible to change programme position while in Teletext mode, you will have to cancel the teletext first by pressing **TEXT** *to return to a normal TV picture.*

To select the time display:
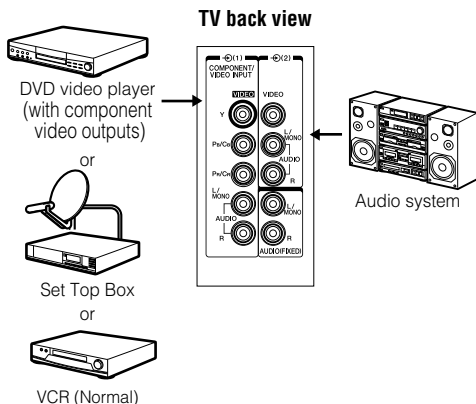
If you press ⊙/⊠ while watching a normal TV broadcast, you will see a time display from the broadcaster. It will remain on the screen for about 4 seconds.

9:56 and 25 seconds p.m.
```
                              21:56:25




```

Back connections

Connection example

TV back view

DVD video player (with component video outputs)

or

Set Top Box

or

VCR (Normal)

Audio system

- 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.
- The **COMPONENT VIDEO INPUT** consists of three component video signals (**Y**, **PB/CB**, **PR/CR**) and provides the best picture performance. These terminals can only be used with the component video compatible equipment e.g. DVD video player, etc.
- If you connect to COMPONENT VIDEO for the **COMPONENT / VIDEO INPUT** terminals, screen display will appear changes to **COMPONENT**.
- Additional equipment and cables shown are not supplied with this TV.

NOTE:
⊖ *(1) COMPONENT / VIDEO INPUT terminals*

Standard mode   **Component mode**

Yellow
White
Red

Green
Blue
Red
White
Red (Audio)
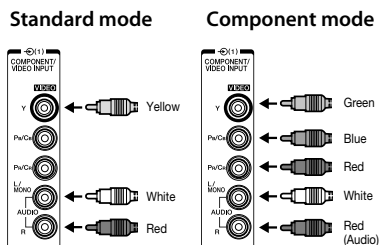
Connecting an audio system

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

NOTE:
- *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 Audio Output** (☞ page 49). 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)

To Digital Audio output terminal

TV back view

▦ Front speaker   ▨ Surround speaker   ▥ Sub woofer
◗ Centre speaker   ⇨ Signal flow
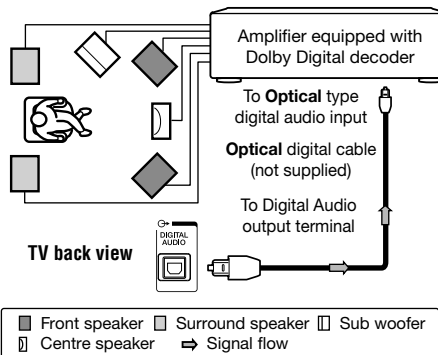
You can enjoy dynamic realistic sound by connecting the TV to an amplifier equipped with a Dolby Digital decoder or Dolby Digital processor. When using this setup, select **Auto** in the **Digital Audio Output** (☞ page 49).

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)

To Digital Audio output terminal

TV back view

| ■ Front speaker | ⇨ Signal flow |
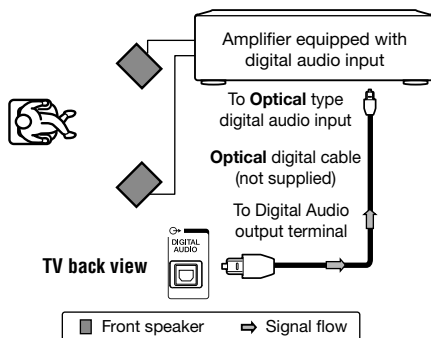
You can enjoy the dynamic sound of a 2-channel digital stereo by connecting the TV to an amplifier equipped with a digital audio (optical) input and speaker system (right and left front speakers). When using this setup, select **PCM** in the **Digital Audio Output** (☞ page 49).

Connecting HDMI or DVI devices

- When turning on your electronic components, turn on the TV first, and then the HDMI and DVI device.
- When turning off your electronic components, turn off the HDMI and 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** in **HDMI 1 Audio** of the **AV Connection** menu (☞ page 39).
- This TV is able to connect with HDMI devices. But it is possible that some HDMI devices may not operate properly with this TV.

Connecting HDMI or DVI devices

The HDMI input on your TV receives digital audio and uncompressed digital video from an HDMI 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 (50/60 Hz) and 1080p (24/50/60 Hz) high-definition video signals, but will also accept and display 480i, 480p, 576i, 576p, and 720p (50/60 Hz) and VGA (VESA 640 × 480 @ 60/72/75 Hz) signals.

- HDMI: High-Definition Multimedia 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 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.
If you connect this unit to your PC, the compressed image is displayed in S-XGA mode, therefore the picture quality may deteriorate and characters may not be read.

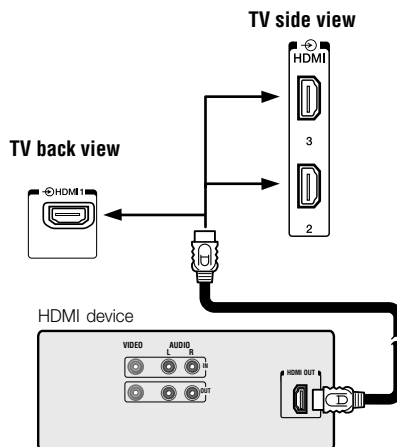- L-PCM: Linear-Pulse Code Modulation
- Supported Audio format: L-PCM, Dolby Digital sample rate 32/44.1/48 kHz

Connecting an HDMI device

One HDMI cable (type A connector)

For proper operation, it is recommended that you use a short HDMI cable.
HDMI cable transfers both video and audio.

TV side view

TV back view

HDMI device

405055L5550Series_EEEV_En.indd   38

27/05/18   13:15:00

Connecting a DVI device

One HDMI (type A connector)-to-DVI adapter cable and audio cables.

HDMI (type A connector)-to-DVI adapter cable

For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 3 m. The recommended length is 2 m.

Standard analogue audio cables

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

TV back view

DVI device
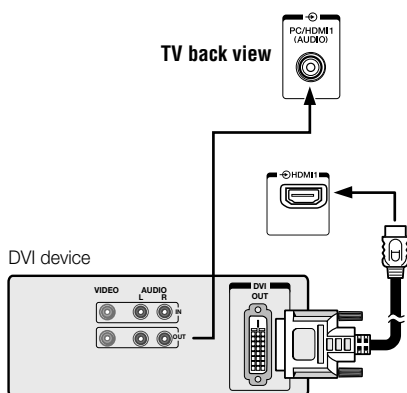
Selecting the PC/HDMI 1 Audio mode

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

1 From the **PREFERENCES** menu and press ▽ or △ to select **AV Connection**

2 Press **OK** to display the **AV Connection** menu.

AV Connection		
Input Labelling		
PC/HDMI 1 Audio	◄ PC ►	
HDMI 1 Audio	Digital	

3 Press ▽ or △ to select **PC/HDMI 1 Audio** and press ◁ or ▷ to select **PC** or **HDMI1**.

Setting the HDMI 1 Audio mode

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

NOTE:
*This function is available only when the **PC/HDMI 1 Audio** mode is set to HDMI1.*

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

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

Connecting a computer

To connect a PC to the RGB/PC terminal on the TV:

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

TV back view

Audio cable for PC-to-TV connection

Mini D-sub 15 pin

Computer

Conversion adapter (if necessary)
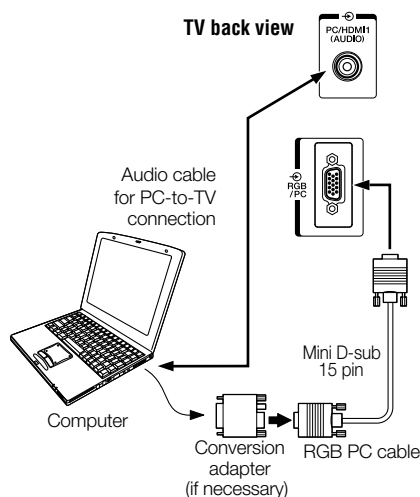
RGB PC cable

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 x 480 @ 60/72/75 Hz
S-VGA: VESA 800 x 600 @ 56/60/72/75 Hz
XGA: VESA 1024 x 768 @ 60/70/75 Hz
W-XGA: VESA 1280 x 768 @ 60 Hz
W-XGA: 1280 x 800 @ 60/75 Hz
W-XGA: VESA 1360 x 768 @ 60 Hz
W-XGA+: 1440 x 900 @ 60 Hz
S-XGA: VESA 1280 x 1024 @ 60 Hz
1920 x 1080p @ 60 Hz (Horizontal Frequency: 67.5 kHz (H), Pixel Clock Frequency: 148.5 MHz)

NOTE:
- *Some PC models cannot be connected to this TV.*
- *If connecting a certain PC model that signal is particular, the PC signal may not be detected correctly.*
- *There is no need to use an adapter for computers with 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 the malfunction.*
- *If the edges of the picture are stretched, readjust the picture position adjustments in the* **PC Settings** *menu.*
- *Depending on the specification of the PC you are playing the DVD-Video on, and the DVD's title, some scenes may be skipped, or you may not be able to pause during multi-angle scenes.*

To connect 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 audio cables are not necessary.

TV back view

Computer

Audio cable for PC-to-TV connection
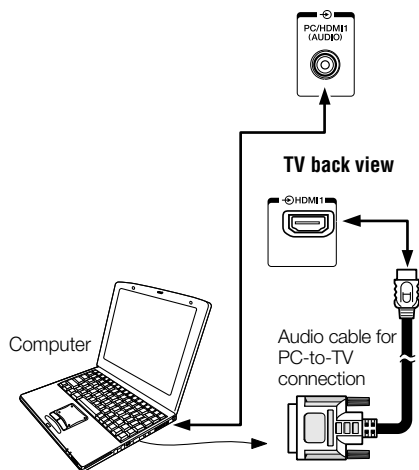
NOTE:
- *The edges of the images may be hidden.*
- *If connecting a certain PC model that signal is particular, the PC signal may not be detected correctly.*

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	DDC Data
5	Ground	13	H-sync
6	Ground	14	V-sync
7	Ground	15	DDC Clock
8	Ground		

Using the PC Settings

- First press ⊕ until the video input mode list appears on the screen, then press ▽ or △ and **OK** in order to select the PC input mode (☞ page 33).
- This function may not be available for some signal or if no signal is received.
- The optimum points of the **Clock Phase** and **Sampling Clock** adjustments may be incomprehensible according to the input signals.

Adjusting the picture position

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

2 Press **OK** to display the **PC Settings** menu.
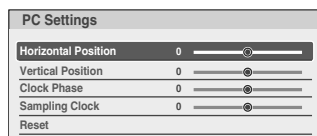
3 Press ▽ or △ to select an option you want to adjust. Press ◁ or ▷ to adjust the settings as required.

40

Adjusting the Clock Phase of the picture

If the **Clock Phase**, which synchronize the PC signal and LCD display, is not optimized, the picture will blur.
This function enables 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.

Adjusting the Sampling Clock

If the **Sampling Clock** does not match with the dot clock frequency of the PC, blurred picture detail will occur, or screen width will change, or drift patterns in vertical lines may be apparent.
This function enables you to adjust it and optimize the picture.

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

2 Press ◁ or ▷ to optimize the picture.

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**.

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

NOTE:
When a PC is connected using HDMI none of these function will be available.

Using the Easy remote control to operate the TV

The following TV operations can be performed using the Easy remote control:

• When the **MENU** button is pressed, the menu screen appears.

• The volume can be adjusted using the +/− buttons.

• If you press, hold, and then tilt the pointing key while watching the TV, the operation guide is displayed.
Pressing, holding, and then tilting the pointing key vertically changes the channel.
Pressing, holding, and then tilting the pointing key horizontally changes the input.

41

About the home screen

This section describes the basic operations on the home screen.
*   The home screen appears when you press ⌂ on the Easy remote control.
*   Use the Easy remote control to perform operations. For how to use the Easy remote control, refer to page 10.

*   The actual screen may differ in appearance.
*   Certain expressions used in the GUI of this product may not correspond to the TV (e.g., touch/phone/tablet).

1 Status bar
    The status icon, notification icon, and time are displayed.
2 Desktop position
    The position of the displayed desktop is shown. The centre indicates the home screen.
3 Desktop area
    A TV window is located to the left of the desktop area on the home screen.
    *   When purchased, icons such as the TOSHIBA Information and Browser icon are located on the desktop area of the home screen. The desktop areas can be customized.
4 Screen slide button
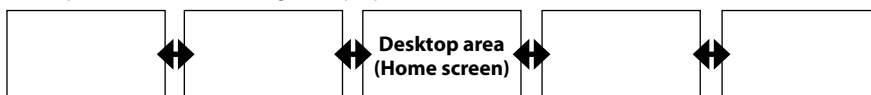   You move to the desktop area to the left or right. The home screen is located at the centre, and the desktop areas to the left and right are prepared.

5 Dock bar area
    Shortcut icons for frequently used applications can be found here.
    When purchased, you can find the Google folder, Drawer icon and Settings icon here.
    *   Up to 7 shortcuts can be placed in the dock bar area.
6 User Name area
    The logged in user name is displayed. Select this area to change your profile settings and log out.
7 Navigation area
    This area contains basic navigation icons.

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The desktop area of the home screen

The TV window and fixed icons are located on the desktop area of the home screen.

TV window
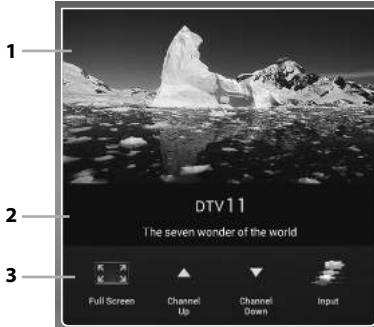
1 Displays the images of the broadcast or external input.
2 Displays the channel or external input name of the images displayed on 1.
3 Switches the images to be displayed on 1, or configures the TV settings.

Channel Up ▲ Channel Down ▼	Changes the channel when you select ▼ or ▲ and then press the pointing key.
	Changes the image input.
Full Screen	Starts the TV Application.

Moving between desktop areas

1 Select the screen slide button, and press the pointing key.

The desktop position indicator also changes with the desktop area.

Alternatively, follow the procedure below:

1 At any position in the desktop area, press and hold the pointing key, and then tilt it to the left or right.

The desktop area in the direction in which the pointing key was tilted is displayed.

Status bar

The notification icon that appears when there is a notification is displayed on the left side.

The unit status icon and time are displayed on the right side.

Checking detailed information

When the focus is on the status bar and you press and hold and tilt the pointing key downward, notification messages are displayed. If you select a notification message and then press the pointing key, the related application or setup screen is displayed.

Opening the quick setup panel

If you select the quick setup icon on the upper right of the detailed information screen and then press the pointing key, the quick setup panel is displayed.
• To change the setting, select an icon and then press the pointing key.
• To return to the detailed information screen, select the upper right icon and then press the pointing key.

Dock bar

Google folder

Pre-installed Google applications are stored in this folder.

Select the icon and press the pointing key to display all of the stored icons.

Select an application and press the pointing key to start the application.

405055L5550Series_EEEV_En.indd   43   27/05/18   13:15:01

Displaying a screen of stored applications or widgets (APPS screen/WIDGETS screen)

1 Select the Drawer icon on the dock bar, and press the pointing key.

A screen of stored applications (APPS screen) or widgets (WIDGETS screen) is displayed.

Switching between the APPS screen and the WIDGETS screen

To display the WIDGETS screen, select the WIDGETS tab on the upper left and then press the pointing key.

To display the APPS screen, select the APPS tab on the upper left and then press the pointing key.

- If the applications or widgets cannot be accommodated on a single screen, select ◁ or ▷ and then press the pointing key.

Settings

Select the Settings icon and press the pointing key to display the settings screen.

Logging out

1 Select the User Name area, and press the pointing key.

2 Select Logout, and press the pointing key.

You are logged out, and the login screen appears.

When 🔒 is displayed on the screen, pressing **MENU** redisplays the home screen.

Navigation area

⬅	Returns to the previous screen.
⌂	Displays the home screen.
⧉	Displays a list of recently used applications. (The applications can also be started from here)

Notes on using the Android features

- To use the Android features effectively, an Internet connection is required. "Connecting a network" (☞ page 46)
- Some features require an always-on broadband internet connection, firmware update and/or additional bandwidth dedicated to this product. Third party internet services may change or be discontinued or restricted at any time. TOSHIBA makes no warranties, representations, or assurances about the content, availability or functionality of third-party content or services. Use of third party internet services may require registration by a computer and/or payment of charges and membership. Not all services or content may be available on this product, in your country or with your language. In order to experience the full capabilities of this product, fully compatible devices may be required.
- This service may be forcibly blocked according to the situation of CSP service.
- If a downloaded application is updated, performance cannot be guaranteed.
If a preinstalled application other than TV Application, Media Player, Screen Mirroring, and TOSHIBA Service Station is updated, performance cannot be guaranteed.

Starting an application

1 Select a shortcut icon on the desktop area or an icon on the APPS screen, and press the pointing key.

The application of the selected icon starts up.

Displaying the application menu

Many applications have their own menus.

1 Press **MENU**.

The application menu appears.

NOTE
Some applications have no menus..

Customizing the desktop

You can locate or move application shortcut icons or widgets on the desktop area to customize the desktop.

The shortcut icons or widgets can be removed.

Placing shortcut icons or widgets on the desktop

1 Select the Drawer icon on the dock bar, and press the pointing key.

2 Select a tab on the upper left to display the APPS or WIDGET screen.

3 Select an application or widget to place on the desktop, and press and hold the pointing key.

The desktop appears.

Keep pressing and holding the pointing key until the icon or widget has been placed.

4 Press, hold and tilt the pointing key to the left or right to display the desktop to place the application or widget on.

5 Move the application or widget to any position, and release the pointing key.

It is placed in the specified position.

Moving shortcut icons or widgets

1 Select a shortcut icon or widget to move, and press, hold and tilt the pointing key in your preferred direction.

2 Release the pointing key in any position.

Removing shortcut icons or widgets

1 Select a shortcut icon or widget to remove, and press and hold the pointing key.

2 When "Remove" appears on the bottom left, move the icon or widget to the "Remove" text, and then release the pointing key.

When the icon or widget is over the "Remove" text, the text and icon or widget turn red. When you release the pointing key, the icon or widget is removed.
• Shortcut icons or widget that are removed from the desktop are not removed from the APPS or WIDGET screen.

Customizing the Dock bar

Placing shortcut icons on the Dock bar

Up to 7 shortcuts can be placed in the dock bar.

1 Select the icon to place in the dock bar on the desktop, press and hold the pointing key and move the icon to the dock bar.

2 Release the pointing key.

Removing shortcut icons

1 Select the icon to remove on the dock bar, press and hold the pointing key and move the icon to the desktop.

2 Release the pointing key.

NOTE:
The Drawer icon cannot be moved or removed.

Grouping shortcut icons

Place a shortcut icon on top of another shortcut icon to create a folder containing both icons.

Select the newly created folder icon and press the pointing key to display the shortcuts stored in the folder. Select an icon and press the pointing key to start the selected application.
• The newly created folder can be moved and removed in the same way as normal icons.

Uninstalling an application or widget

Uninstall a downloaded application or widget.

1 Select the Drawer icon on the dock bar, and press the pointing key.

2 Select a tab on the upper left to display the APPS or WIDGET screen.

3 Select an application or widget to uninstall, and press and hold the pointing key.

The desktop is displayed, and "Uninstall" appears on the bottom left.
• "Uninstall" does not appear if the application or widget cannot be uninstalled.

4 Press and hold the pointing key, move the icon or widget to the "Uninstall" text, and then release the pointing key.

When the icon or widget is over the "Uninstall" text, the text and icon or widget turn red. When you release the pointing key, the icon or widget is removed.

Using the Screen Mirroring function

You can view the screen of your tablet, smartphone or PC on the TV.

1 Select the Screen Mirroring icon on the home screen, and press the pointing key.

The connection standby screen appears.
You can check the device name.

2 Operate your tablet, smartphone or PC to display the screen on the TV.

Select the TV which you wish to connect to. "Connecting" will be shown on the TV.

- **PBC mode:**
  After the Screen Mirroring connection is complete, the TV screen will mirror the content shown on the tablet, smartphone or PC.

- **PIN mode:**
  Proceed to step 3.

3 Connecting your tablet, smartphone or PC to your TV the first time .

When selecting the TOSHIBA TV for the first time, a 8-digit code will appear on your TV screen.
This code needs to be input into your tablet or smartphone to authenticate the connection.

If authentication has already taken place, "Connecting" will appear on screen.

- After the Screen Mirroring connection is complete, the TV screen will mirror the content shown on the tablet, smartphone or PC.

NOTE:
- *When the Screen Mirroring software is active, other applications may not be usable.*
- *When Screen Mirroring is used, you cannot connect to the Internet using the TV.*

To exit Screen Mirroring:
Exit using your tablet, smartphone or PC or by pressing **EXIT** on the TV remote control.

NOTE:
It may not be possible to connect some tablets, smartphones and PCs to the TV.

Connecting a network

The LAN port allows your TOSHIBA TV to connect to your home network.

NOTE:
- *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 48).*
- *If you use a router with built-in DHCP functionality, use the automatic setup. Manual setup may not work.*

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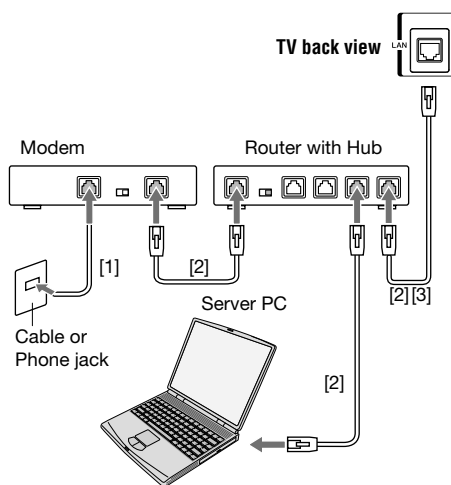
[1] Coaxial or telephone cable (depending on your modem type)
[2] Standard LAN cable
[3] DO NOT connect a phone jack directly to the TV's LAN port.

To connect the TV to a network - Wireless

Please refer to "Setting up the Network" section.
- If this device is going to be operated in the frequency range of 5.15 GHz to 5.35 GHz, it is restricted to indoor use.

When using a wireless network

CAUTION:
- *Bluetooth™ and Wireless LAN devices operate within the same radio frequency range and may interfere with one another. If you use Bluetooth™ and Wireless LAN devices simultaneously, you may occasionally experience a less than optimal network performance or even lose your network connection.*
- *If you should experience any such problem, immediately turn off either your Bluetooth™ or Wireless LAN device.*
- *Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage.*
- *Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.*

Wireless LAN and your Health

Wireless LAN products, like other radio devices, emit radio frequency electromagnetic energy. The level of energy emitted by Wireless LAN devices, however, is far less than the electromagnetic energy emitted by wireless devices such as mobile phones.
Because Wireless LAN products operate within the guidelines found in radio frequency safety standards and recommendations, TOSHIBA believes Wireless LAN is safe for use by consumers. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature.
In some situations or environments, the use of Wireless LAN may be restricted by the proprietor of the building or responsible representatives of the organization. Such restrictions may apply in environments where the risk of interference to other devices or services is perceived or identified as harmful.
If you are uncertain of the policy that applies to the use of wireless devices in a specific organization or environment, you are encouraged to ask for authorization to use the Wireless LAN device prior to turning on the equipment.

Setting up the wireless LAN

Configure the TV so it can be connected to a wireless LAN access point wirelessly.

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

There are 3 methods for Wireless Setup:

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

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

Assisted setup by using the Wireless Routers notification information.
Network name, Authentication and Encryption are decided based on information sent from the Wireless router. Security key to be set manually.

Manual setup
Network name, Authentication, Encryption and Security Key all to be inputted manually.

Easy Setup using PBC (Push Button Configuration)

1 Select the Settings icon on the home screen, and press the pointing key.

   The Settings screen appears.

2 Select Wi-Fi®, and press the pointing key.

3 Press the pointing key to change the value from OFF to ON.

4 Select WPS PUSH BUTTON on the upper right, and press the pointing key.

5 Following the on-screen instructions, push the appropriate button on your AP.

6 When a window appears indicating that the setup is complete, select **OK** and then press the pointing key.

Easy Setup using PIN (Personal Identification Number)

1 Select the Settings icon on the home screen, and press the pointing key.

   The Settings screen appears.

47

2 Select Wi-Fi®, and press the pointing key.

3 Press the pointing key to change the value from OFF to ON.

4 Select menu icon on the upper right, and press the pointing key.

5 Select WPS Pin Entry, and press the pointing key.

6 Following the on-screen instructions, enter the PIN code on your AP.

7 When a window appears indicating that the setup is complete, select **OK** and then press the pointing key.

Assisted Setup

1 Select the Settings icon on the home screen, and press the pointing key.

The Settings screen appears.

2 Select Wi-Fi®, and press the pointing key.

3 Press the pointing key to change the value from OFF to ON.

4 Select an AP, and press the pointing key.

5 Select the Password field, and press the pointing key.

The Software Keyboard window will appear.

6 Input the password by using the Software Keyboard.

7 Select Connect, and press the pointing key.

Manual Setup

1 Select the Settings icon on the home screen, and press the pointing key.

The Settings screen appears.

2 Select Wi-Fi®, and press the pointing key.

3 Press the pointing key to change the value from OFF to ON.

4 Select ADD NETWORK on the upper right, and press the pointing key.

The Add network screen appears.

5 Enter the necessary information such as Network SSID and Security.

6 Select Save, and press the pointing key.

Checking and changing other settings

Ethernet

Check and change the network information.

To display the network information, select Ethernet and then press the pointing key.

• To change the setting, select ⬛ on the upper right and then press the pointing key.

Data usage

Check the usage status of the internal memory.

To display the current usage status of the internal memory, select Data usage and then press the pointing key.

More...

Set up a VPN (Virtual Private Network).

To display the setup screen, select More... and then press the pointing key.

Sound

Configure volume and other settings.

To display the sound setup screen, select Sound and then press the pointing key.

When ✓ is shown, it indicates that Audio Source Filtering or Screen lock sounds is enabled.
The setting switches between enabled and disabled each time you select it and then press the pointing key.

Setting the volume

Select Volumes, press the pointing key, and then set the volume and Audio Source Filtering using the slide bar.
• If ✓ is shown for Audio Source Filtering, the operation screen appears when the volume button is pressed. You can adjust the volume balance for voice and background using ◁ or ▷. ✓ for Audio Source Filtering appears and disappears alternately each time OK is pressed.

NOTE:
• *Audio Source Filtering has been designed for private use and entertainment in your home environment. Please note that any unlawful use, including use in public and any commercial use, could lead to copyright infringement of right holder's rights. TOSHIBA asks you to respect the intellectual property rights of third parties.*
• *The effect of Audio Source Filtering depends on the contents.*
• *If the content is mono, it may not have enough effect.*

- *Audio Source Filtering may amplify the noise that is included in the content.*
- *The volume may wobble when you enable Audio Source Filtering.*
- *Audio Source Filtering takes a few seconds to exert after enabling it, changing content, jump and changing volume.*
- *Audio Source Filtering may not work with some applications.*
- *If Audio Source Filtering is used at the same time as another sound effect (***Surround***, etc.), the effects may not work correctly.*

Digital Audio Output

Configure the settings for sound output from the **DIGITAL AUDIO** terminal.

Select a setting from those listed below according to the connected device, and press the pointing key.

- **Auto**: This mode automatically outputs in Dolby Digital format (for Dolby Digital, Dolby Digital Plus or HE-AAC audio signals) or PCM format (for PCM audio signals) from an Digital broadcast, HDMI or USB device to the digital audio output socket.
- **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.

Display

Set the screen Display and wallpaper.

To display the display setup screen, select Display and then press the pointing key.

- **Brightness**: Set the brightness of the screen.
- **Wallpaper** : Set the wallpaper.
- **Font size** : Set the size of fonts displayed on the screen.

HDMI CEC Setup

Configure the HDMI CEC function. (☞ page 61)

Storage

Check the storage and available capacity for each item.

To display the storage and available capacity for each item, select Storage and then press the pointing key.

Apps

Check the applications.

Select Apps and then press the pointing key. The preinstalled and downloaded applications are displayed.

A bar appears on the lower side indicating the size of the installed applications.

If you select an application and then press the pointing key, information on the selected application is displayed.

Users

Add or delete a user, or add user information.

Select Users and then press the pointing key. The current information is displayed.

If you select the owner icon and then press the pointing key, the Profile screen appears. You can customize the profile.

If you select Nickname or Owner info and then press the pointing key, you can edit the data.

Location

Set the location information.

To display the setup screen, select Location access and then press the pointing key.

Set it up if necessary.

Security

Set the security.

To display the setup screen, select Security and then press the pointing key.

Set it up if necessary.

Language & input

Configure the language and input settings.

To display the setup screen, select Language & input and then press the pointing key.

If you select Language and then press the pointing key, you can change the display language.

Configure the other settings if necessary.

- If you select ☷ and then press the pointing key, you can set the details of the selected item.

49

Backup & reset

Configure the backup and reset settings.

To display the setup screen, select Backup & reset and then press the pointing key.

Set them up if necessary.

Factory data reset resets the settings to factory default.

Accounts

You can check, add and edit your registered service accounts.

Set them up if necessary.

Date & time

Set the date and time.

To display the setup screen, select Date & time and then press the pointing key.

Set them up if necessary.

Accessibility

Set the accessibility.

To display the setup screen, select Accessibility and then press the pointing key.

Set it up if necessary.

Panel Lock

Set Panel Lock.

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

To display the setup screen, select Panel Lock and then press the pointing key.

Set it up if necessary.

NOTE:
When Panel Lock is On, a reminder will appear when the keys on the TV are touched. If the standby key is touched, the TV will switch off and can only be brought out of standby by using the remote control.

Sleep Timer

Set Sleep Timer (☞ page 27).

To display the setup screen, select Sleep Timer and then press the pointing key.

Place the ✓ mark to enable Sleep Timer.

Select ✕ and then press the pointing key. The advanced setup screen appears, and you can set Sleep Timer.

Automatic Power Down

Set 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.

To display the setup screen, select Automatic Power Down and then press the pointing key.

NOTE:
1 minute before switching to standby, a warning message will appear.

Quick Start

Set Quick Start.

Set it to ON to reduce the time from standby to power on.

To display the setup screen, select Quick Start and then press the pointing key.

NOTE:
When Quick Start is set to ON, the power consumed in standby mode increases slightly.

About TV

Check information about the TV.

To display the information screen, select About TV and then press the pointing key.

If you select an item on the information screen and then press the pointing key, the details appear.

TV

If you select TV and then press the pointing key, the images and audio of TV broadcasts (external input) are output.

Media Player

If you select Media Player and then press the pointing key, the top screen of Media Player is displayed (☞ page 52).

Updating the system

Use TOSHIBA Service Station to update the system.

1 Display the APPS screen (☞ page 44).

2 Select and start TOSHIBA Service Station.

3 Follow the on-screen instructions.

Using the TV remote control to operate

The following buttons on the TV remote control can be used to operate Android features, when the Easy remote control cannot be used.

NOTE:
Not all the Android features can be operated.
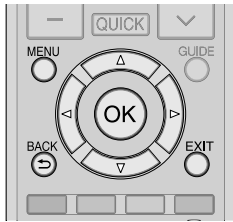
MENU **:** When 🔒 is displayed on the screen, pressing **MENU** redisplays the home screen.

△▽◁ ▷ **:** Select an item.

OK **:** Confirm the selected item.

Using △▽◁ ▷ to select an item and pressing **OK** works the same as using the pointing key.

BACK **:** Go back to the upper layer.

EXIT **:** Return to the home screen.

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

Terminology

The TV can control and play content from a USB device.

NOTE:
- *Do not insert/remove USB device while in use.*
- *TV menu is not available during playback.*

Media Player Specifications

Device
  Internal memory
  File system: FAT16 and FAT32

  USB device
  Interface version: USB2.0 HS
  USB Mass Storage Class devices (MSC)

NOTE:
- *Connectivity is not guaranteed for all devices.*
- *Incorrect behaviour may occur with a USB hub connection.*
- *Turn off the TV before connecting a USB HDD devices.*
- *The* **Auto Format** *function is not available.*
- *The aspect ratio may not be correct in some cases.*

  File system: FAT16 and FAT32

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

Starting Media Player

Starting Media Player while you are watching TV

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

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

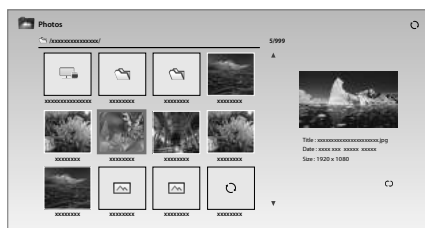 The top screen of the Media Player appears.

- Alternatively, press **MENU** and select **Media Player** from the **APPLICATIONS** menu.

3 Press ◁ or ▷ to select Photos, Music, or Videos, and then press **OK**.

  The device selection screen appears.

4 Select a device, and press **OK**.

  Example: When Photos is selected

Starting Media Player from the home screen

1 Select [icon], and press the pointing key.

The top screen of the Media Player appears.

2 Select the Photos, Music, or Videos icon, and press the pointing key.

The device selection screen appears.

3 Select a device, and press the pointing key.

Exiting Media Player

When the top screen of Media Player is displayed or you are operating Media Player, perform the following:

Using the TV remote control

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

2 Press ▽ or △ to select **TV Application** or **System Settings**.
  • If you select TV Application, the TV broadcast (external input) is output.
  • If you select System Settings, the Setting screen appears.

Using the Easy remote control

1 Press ⌂.

The home screen appears.

Viewing photo files

File Compatibility

See page 63.

Using the TV remote control to operate

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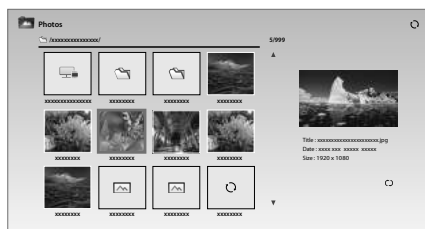
The initial highlighted position will be on the top left thumbnail in the Multi View.

1 Press ▽, △, ◁ or ▷ to select a photo or folder. **P⌃** / **P⌄** buttons can be used to page up/down the **Multi View** when there are more photos than will fit onto one screen.

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

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

Single View

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

  • Press ▷ to view the next photo. Press ◁ to view the previous photo.

  • Press △ to rotate the image 90° clockwise. Press ▽ to rotate the image 90° counterclockwise.

  • Press [i+] to display file status information.

53

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 ◁ or ▷ to view the previous/next photo.

• Press ⓘ⁺ to display file status information.

To set Interval Time setting:

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

2 Press ▽ or △ to select **Interval Time**.

3 Press ◁ or ▷ to select **Normal**, **Fast** or **Slow**.

NOTE:
If ◁ or ▷ is pressed during **Slide Show** *playback, the Interval Time is reset.*

To set Repeat setting:

To play a slide show repeatedly, select **On**.

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

2 Press ▽ or △ to select **Repeat**.

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

To zoom in/out photos

During the Single View mode or Slide Show mode, the zoom function can be used.
RED button (Zoom in)
   x2 → x4 → x8 → x16 zoom
GREEN button (Zoom out)
   x8 → x4 → x2 → x1 zoom
BACK button: Normal playback
▽△◁ ▷ **buttons:** Vertical or Horizontal scrolling

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

To close the Photo Viewer

1 Press **EXIT**.

   The top screen of the Media Player appears.

Using the Easy remote control to operate

Multi View
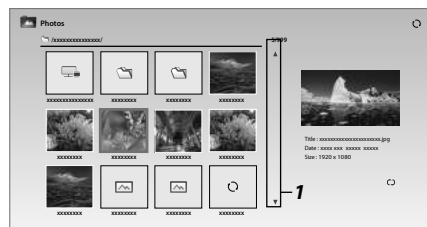
• If you select a file and then press the pointing key, the screen is displayed in single view.
• If you select a folder and then press the pointing key, the next layer appears.
• To go back to the upper layer, press ⤺.
• If you select ▼ or ▲ in *1* and then press the pointing key, the screen scrolls.

Single View

If you move the pointing key, the operation buttons appear on the screen.

NOTE:
The operation buttons are displayed for a few seconds, and automatically disappear if no operation is performed.
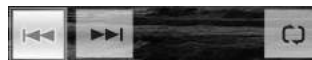
• ▶▶⎮ : Displays the next photo.
• ⎮◀◀ : Displays the previous photo.
• ⟳ : Switches between Repeat On and Off.

Playing music files

File Compatibility

See page 63.

Using the TV remote control to operate

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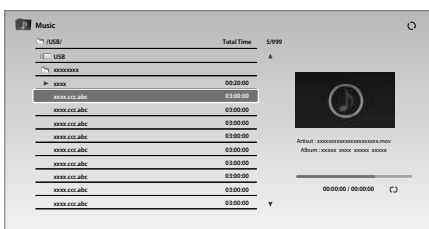
List View

1 Press ▽ or △ to select a file or folder. **P∧ / P∨** buttons can be used to page up/down the **List View** when there are more files than will fit onto one screen.

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

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

4 Press ■ to stop playback.

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

During playback:

- Press ▌▌ to pause.
- To resume normal playback, press ▶ (play). PAUSE may not be available depending on the contents.
- To play in fast reverse or fast forward directions, press ◀◀ or ▶▶ during playback. Each time you press ◀◀ or ▶▶, the playback speed will change.
- Press ▶▶▌ to skip to the next track. Press ▌◀◀ to skip to the beginning of the current track. Press ▌◀◀ again to skip to the beginning of the previous track.

To set the repeat mode:

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

2 Press ▽ or △ to select **Repeat**.

3 Press ◁ or ▷ to select **Off**, **All** or **1**.

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

4 Press **BACK**.

To display the file status information

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 contents.

Closing the Music Player:

1 Press **EXIT**.

The top screen of Media Player appears.

Using the Easy remote control to operate

List View

Music			
/USB/		Total Time	5/999
USB			▲
xxxxxxxx			
► xxxx			00:20:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00

Artist : xxxxxxxxxxxxxxxxxxxxx.mov
Album : xxxxx xxxx xxxxx xxxxx

00:00:00 / 00:00:00

1

- If you select a file and then press the pointing key, playback starts.
- If you select a folder and then press the pointing key, the next layer appears.
- To go back to the upper layer, press ⏎.
- If you select ▼ or ▲ in *1* and then press the pointing key, the screen scrolls.

During playback:

If you move the pointing key, the operation buttons appear on the screen.

NOTE:
The operation buttons are displayed for a few seconds, and automatically disappear if no operation is performed.

⏮	◄◄	►	►►	⏭	↻

- ⏮ , ⏭ : Works the same as ⏮ or ⏭ on the TV remote control.
- ◄◄ , ►► : Works the same as ◄◄ or ►► on the TV remote control.
- ► (⏸) : Pauses during playback. Resumes playback during pause.
- ↻ : Changes the repeat settings.
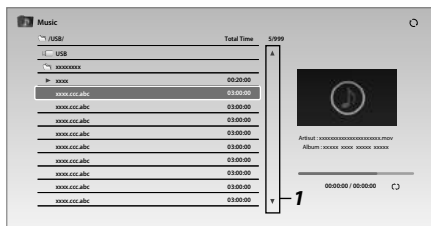
Viewing video files

File Compatibility
See page 63.

Using the TV remote control to operate

You can select videos from a **List View** of available files.
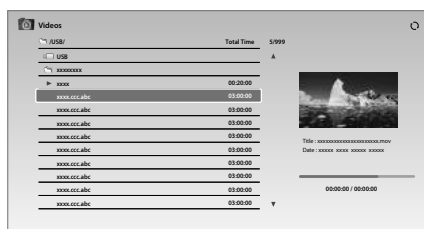
List View

Videos			
/USB/		Total Time	5/999
USB			▲
xxxxxxxx			
► xxxx			00:20:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00
xxxx.ccc.abc			03:00:00

Title : xxxxxxxxxxxxxxxxxxxxx.mov
Date : xxxxx xxxx xxxxx xxxxx

00:00:00 / 00:00:00

1 Press ▽ or △ to select a file or folder. **P∧** / **P∨** buttons can be used to page up/down the **List View** when there are more files than will fit onto one screen.

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

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

4 Press ■ to stop playback.

NOTE:
If playback finishes before ■ is pressed, the screen will return to the **List View**.

During playback:

- Press ⏸ to pause.
  PAUSE may not be available depending on the contents.
  To resume normal playback, press ► (play) or ⏸.
- To play in fast reverse or fast forward directions, press ◄◄ or ►► during playback. Each time you press the ◄◄ or ►►, the playback speed will change.
- Press ⏭ to skip to the beginning of the next chapter. Press ⏮ to skip to the beginning of the current chapter. Press ⏮ within 2 seconds after the chapter starts to return to the previous chapter.
  If the content is not categorized into chapters, press ⏭ to skip to the next content, or press ⏮ to skip to the beginning of the current content. Press

 within 2 seconds after the content starts to return to the beginning of the previous content.
- Press ▽ to skip to the next file, or △ to return to the previous file.
- Press ⌊i+⌋ to display the file status information (content number, video title, progress time etc.).

NOTE:
- *The information may not be correctly displayed depending on the contents.*
- *During playback, you can adjust the **PICTURE** and **SOUND** menu functions from the **Quick Menu**.*
- *The playback speed (◀◀/▶▶) may not change depending on the contents.*

To select subtitle and audio languages

- Press **SUBTITLE** repeatedly to select your preferred subtitle language.
  - You can change the subtitle encode type. See "Changing the subtitle encode type" (☞ page 58) for details.
- Press ◯◗I/Ⅱ repeatedly to select your preferred audio language.

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

Setting the repeat mode

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

2 Press ▽ or △ to select **Repeat**.

3 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.

4 Press **BACK**.

Resume Play

You can resume playback from where it was last stopped.
Press ■ or ⤺ while playing the video to memorize the stopped position.
On the List View screen, if you select a video whose stopped position has been memorized, the message "Resume Play?" will appear. Select **Yes** to resume playback from the last stopped position.

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

To close the Movie Viewer

1 Press **EXIT**.

The top screen of the Media Player appears.

To register your TV to a DivX® account:

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

1 On the top screen of Media Player, press ◁ or ▷ to select **Setup**, and press **OK**.

2 Press ▽ or △ to select **DivX® VOD** and press **OK**.

3 Press ▽ or △ to highlight **DivX® VOD Registration** and press **OK**.

4 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.

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

To deregister your device

1 In step 3 above, highlight **DivX® VOD Deregistration**, and then press **OK**.

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

3 The **DivX® VOD** window will appear and you will see the deregistration code. For details on deregistration, please visit the DivX® website at http://vod.divx.com.

DIVX
This DivX Certified® device has passed rigorous testing to ensure it plays DivX® video.
To play purchased DivX movies, first register your device at vod.divx.com. Find your registration code in the DivX VOD section of your device setup menu.
DivX Certified® to play DivX® and DivX Plus® HD (H.264/MKV) video up to 1080p HD, including premium content.

To playback DivX Plus HD content:

- To play in fast reverse or fast forward directions, press ◄◄ or ►► during playback. Each time you press ◄◄ or ►►, the playback speed will change.
- This TV generates original chapter point in 10% increments for 10 chapters in total, that are accessible by using the Number buttons on the remote control.
- Press ▽ to skip to the next file, or △ to return to the previous file.
- Press ▷ to skip to the next title, or ◁ to return to the previous title.

During playback, press ►►I to skip to the beginning of the next chapter. If ►►I is pressed at the last chapter, a message appears. If "Yes" is selected, playback will skip to the next title or content.

Press I◄◄ to skip to the beginning of the current chapter. Press I◄◄ within 2 seconds after the chapter starts to return to the previous chapter. If I◄◄ is pressed within 2 seconds after Chapter 1 starts, a message appears. If "Yes" is selected, playback will return to the previous title or content.

The Number button is used for direct jump. If the 3 button is pressed, playback will jump to the beginning of 3rd chapter.

NOTE:
- *When a rental file is played, I◄◄ or ►►I cannot be used to move between the files.*
- *The above operations cannot be performed depending on the content.*
- *The playback speed (◄◄/►►) may not change depending on the stream.*

Using Multi Title and Alternative Timelines Multi Title:

DivX Plus HD files may contain up to 100 titles.

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

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

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

NOTE:
The above operations cannot be performed depending on the content.

Changing the subtitle encode type

When purchased, the encode type is set to UTF-8. Follow the procedure below to change the encode type.

1 Press **QUICK** during playback of a video to open the **Quick Menu**.

2 Press ▽ or △ to select **Subtitle Encode Type**.

3 Press ◁ or ▷ to change the setting.

The setting items and encode types are as shown below.

Setting item	Encode type
Western Europe 1	ISO-8859-1
Western Europe 2	CP-1252
Central Europe 1	ISO-8859-2
Central Europe 2	CP-1250
Cyrillic Alphabet 1	ISO-8859-5
Cyrillic Alphabet 2	CP-1251
Greek 1	ISO-8859-7
Greek 2	CP-1253
Turkish 1	ISO-8859-9
Turkish 2	CP-1254
Thai	CP-874
Arabic	CP-1256
Vietnamese	CP-1258
Chinese	GB18030
UTF-8	UTF-8
UTF-16	UTF-16

Using the Easy remote control to operate

List View

- If you select a file and then press the pointing key, playback starts.
- If you select a folder and then press the pointing key, the next layer appears.
- To go back to the upper layer, press ⤺.
- If you select ▼ or ▲ in *1* and then press the pointing key, the screen scrolls.

During playback:

If you move the pointing key, the operation buttons appear on the screen.

NOTE:
The operation buttons are displayed for a few seconds, and automatically disappear if no operation is performed.

- ⏮ , ⏭ : Works the same as ⏮ or ⏭ on the TV remote control.
- ⏪ , ⏩ : Works the same as ⏪ or ⏩ on the TV remote control.
- ▶ (⏸) : Pauses during playback. Resumes playback during pause.
- ↻ : Changes the repeat settings.

Playing content from a smartphone or tablet

This TV supports MTP (Media Transfer Protocol). You can connect a smartphone or tablet to one of the USB terminals on this TV and play content using the TV's Media Player.

1 Connect the smartphone or tablet to a USB 1 terminal on the TV (☞ page 8).

USB on the TV

USB cable (not supplied)
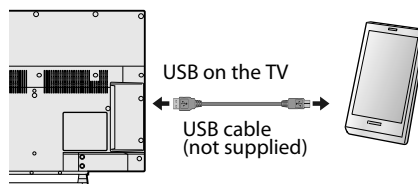
NOTE:
- *It may not be possible to connect some smartphones and tablets to the TV.*

2 Display the top screen of Media Player.

3 Select the Photos, Music, or Videos icon and press **OK**.

The device selection screen appears.

For **Photos**

Internal Memory   smartphone

For **Music/Videos**
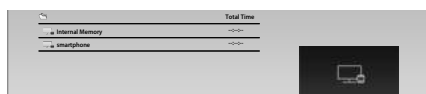
NOTE:
- *If you cannot see the content of the connected smartphone, reconnect it and wait for a while before operating.*

59

4 Select the connected device (smartphone or tablet) and press **OK**.

5 Select the content to display/play and press **OK**.

The selected content is copied to the TV. Once copying is complete, the content will be displayed/played.

Precautions for playing content from a smartphone or tablet

This TV and the smartphone or tablet are connected according to MTP (Media Transfer Protocol). Therefore, the following restrictions apply.

- In accordance with MTP, content from a smartphone or tablet will be played once it has been copied to this TV. If no space in which to copy the content is available on the TV, the content will not be played. In such cases, delete copied files to create space on the TV according to "Deleting copied files", and then select the content again.
- Copying the content may take some time.
- Copying cannot be cancelled.
- Some files may not be viewable depending on the device.
- An icon will be displayed on the Multi View or List View preview screen.
- During playback, you cannot move to the next or previous content using ◄◄ or ►►. Stop playback, and select the content from the Multi View or List View.
- Slide Show playback is not possible for photo files.

Deleting copied files

Delete copied files on the TV.

1 Display the top screen of Media Player.

2 Select **Setup** and press **OK**.

3 Select **Clear cache file** and press **OK**.

A confirmation message will appear.

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

All copied files will be deleted.

NOTE:
When **Clear cache file** *is performed, all copied files will be deleted. If other files have somehow been saved in the same location as copied files, they too will be deleted.*

This feature uses CEC (Consumer Electronics Controls) technology and allows the control of HDMI CEC compatible devices from the TV remote control via HDMI connection.
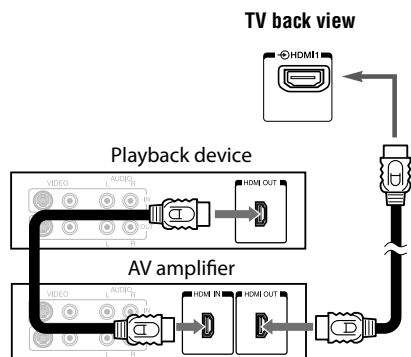
NOTE:
- *This feature may not work properly depending on the connected HDMI CEC compatible device.*
- *To display the home screen while using the HDMI CEC function, press ⌂ on the easy remote control.*

HDMI CEC Control connection

Before controlling the device(s):

- After completing the below connections, set the **HDMI CEC** menu as you desire.
- The connected devices must also be set. For details, see the owner's manual for each device.

Connection example

TV back view

Playback device

AV amplifier

NOTE:
- *If several devices are connected, the HDMI CEC Control feature may not operate properly.*
- *For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (HDMI™).*
- *This function is limited to models incorporating the HDMI CEC Control function. Refer to the individual owner's manuals for compatibility information.*
- *Connect devices to HDMI 1 to use the HDMI CEC function.*

HDMI CEC functions

HDMI CEC one touch play

When you turn on a connected device, the TV will automatically detect it through CEC and select HDMI input, and the TV input will automatically switch to that device. If the TV is in standby, it will be turned on automatically. Configure settings on the HDMI CEC Setup menu.

NOTE:
Even if the device is showing a menu the TV may automatically show the video input source on-screen display.

HDMI CEC system standby

This feature automatically turns the connected device into standby when the TV goes into standby and conversely for the TV to switch into standby when connected device goes into standby. Configure settings on the HDMI CEC Setup menu.

To set the HDMI CEC Control Setup

Set in the Android feature Settings.

1   Select the Settings icon on the home screen, and press the pointing key.

   The Settings screen appears.

2   Select HDMI CEC Setup, and press the pointing key.

3   Select HDMI CEC and press the pointing key to insert a ✓ mark.

   Insert a ✓ mark for HDMI CEC to use the HDMI CEC function.

   When a ✓ mark has been inserted for HDMI CEC, the following settings can be configured.
   - **TV Auto Power**
     If a HDMI CEC device is turned on or off, the TV turns on or standby automatically.
   - **Auto Standby**
     If the TV is set to standby, the TV will send a message to turn off the selected HDMI CEC compatible device connected to the TV.

NOTE:
- *The above functions are dependent on the connected device and TV setting.*

HDMI CEC Control input source selection

If an HDMI CEC Control device with HDMI switching capability (e.g. AV amplifier) is connected to the HDMI input, you can select another HDMI CEC Control device that is connected to the master HDMI device on the input source list.

1 Press ⊕ and a list will appear on screen showing available input sources.

2 Press ▽ or △ to select the input source that the HDMI CEC Control devices are connected.

3 Press ▷ and a second selection screen will appear showing all connected HDMI CEC Control equipment.

Inputs		
TV	1	DVD
VIDEO1	2	VCR/DVR
VIDEO2	3	CBL/SAT
HDMI 1 ▶	4	GAME/TV
HDMI 2	5	AUX
HDMI 3		
PC		
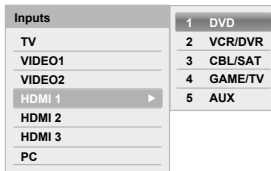
4 Press ▽ or △ to select the desired input source, and then press **OK**.

NOTE:
- *These functions depend on the device connected. If you select the HDMI CEC Control input source from the popup window, some HDMI CEC Control devices may automatically turn on.*
- *If you change the HDMI device connection or the HDMI device settings, the HDMI CEC settings may change.*

APPENDIX

Media Player Supported Formats

Media Player	Media Format	File Extention	Video/Audio codec	Note
Photos	JPEG	.jpg .jpeg	JPEG	Data compatibility: JPEG Exif ver 2.1 Maximum number of files: 4096 per folder *) Some files may not be played.
	PNG	.png	PNG	
	BMP	.bmp	BMP	
Music	MP3	.mp3	MPEG-1/2 Layer3	Maximum number of files: 4096 per folder
	MP4	.mp4 .m4a	MPEG-2/4 LC AAC	
	WMA	.wma	WMA7/8/9/ Std	
	WAV	.wav	L-PCM ADPCM	
	MKA	.mka	MPEG-1/2 Layer-2 MPEG-1/2 Layer-3	
Videos	AVI	.avi	Video) H.264 (MPEG-4 AVC) DivX 3, 4, 5, 6 Xvid MJPEG	Maximum number of files: 4096 per folder Maximum viewable resolution: 1920x1080 Supported format of External Subtitle: .srt, .sub, .smi, .ssa, .ass, .txt, .psb, .ttxt, .idx/.sub *) Some files may not be played.
			Audio) MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM ADPCM	
	MPEG-2 PS	.mpg .mpeg .dat	Video) MPEG-1 Video MPEG-2 Video	
			Audio) MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) L-PCM	
	MPEG-2 TS	.ts .trp .tp .m2ts	Video) MPEG-2 Video H.264 (MPEG-4 AVC)	
			Audio) MPEG-1/2 Layer2 Dolby Digital (AC-3) L-PCM	

Media Player	Media Format	File Extention	Video/Audio codec		Note
Videos	MPEG-2 VOB	.vob	Video)	MPEG-2 Video	
			Audio)	MPEG-1/2 Layer2 Dolby Digital (AC-3) L-PCM	
	MOV	.mov	Video)	H.264 (MPEG-4 AVC) MPEG-4 part2 MJPEG	
			Audio)	MPEG-1/2 Layer3 MPEG-2/4 LC AAC	
	MP4	.mp4 .m4v	Video)	H.264 (MPEG-4 AVC)	
			Audio)	MPEG-1/2 Layer3 MPEG-2/4 LC AAC	
	ASF	.asf .wmv .xvid	Video)	MPEG-4 part2	
			Audio)	ADPCM	
	DivX	.divx .div	Video)	DivX 3, 4, 5, 6	
			Audio)	MPEG-1/2 Layer3 Dolby Digital (AC-3)	
	MKV	.mkv .xdiv	Video)	MPEG-2 Video MPEG-4 part2 H.264 (MPEG-4 AVC) Xvid	
			Audio)	MPEG-1/2 Layer2 MPEG-1/2 Layer3 Dolby Digital (AC-3) MPEG-2/4 LC AAC	
	RealMedia	.rm .rmvb	Video)	RealVideo 8, 9, 10	
			Audio)	RA-COOK	
	Flash Video (FLV1)	.flv	Video)	Sorenson H.263 (FLV1) H.264 (MPEG-4 AVC)	
			Audio)	MPEG-1/2 Layer3 MPEG-2/4 LC AAC	
	3GPP	.3gp	Video)	MPEG-4 part2 H.264 (MPEG-4 AVC)	
			Audio)	MPEG-4 LC AAC	

Signal Class Table

C mode

OSD	RF Frequency [MHz]
C1	44.25
C2	48.25
C3	55.25
C4	62.25
C5	175.25
C6	182.25
C7	189.25
C8	196.25
C9	203.25
C10	210.25
C11	217.25
C12	224.25
C21	471.25
C22	479.25
C23	487.25
C24	495.25
C25	503.25
C26	511.25
C27	519.25
C28	527.25
C29	535.25
C30	543.25
C31	551.25
C32	559.25
C33	567.25
C34	575.25
C35	583.25
C36	591.25
C37	599.25
C38	607.25
C39	615.25
C40	623.25
C41	631.25
C42	639.25
C43	647.25
C44	655.25

OSD	RF Frequency [MHz]
C45	663.25
C46	671.25
C47	679.25
C48	687.25
C49	695.25
C50	703.25
C51	711.25
C52	719.25
C53	727.25
C54	735.25
C55	743.25
C56	751.25
C57	759.25
C58	767.25
C59	775.25
C60	783.25
C61	791.25
C62	799.25
C63	807.25
C64	815.25
C65	823.25
C66	831.25
C67	839.25
C68	847.25
C69	855.25
C70	863.25

S mode

OSD	RF Frequency [MHz]
S1	105.25
S2	112.25
S3	119.25
S4	126.25
S5	133.25
S6	140.25
S7	147.25
S8	154.25

OSD	RF Frequency [MHz]
S9	161.25
S10	168.25
S11	231.25
S13	238.25
S14	245.25
S15	252.25
S16	259.25
S17	266.25
S18	273.25
S19	280.25
S20	287.25
S21	294.25
S22	303.25
S23	311.25
S24	319.25
S25	327.25
S26	335.25
S27	343.25
S28	351.25
S29	359.25
S30	367.25
S31	375.25
S32	383.25
S33	391.25
S34	399.25
S35	407.25
S36	415.25
S37	431.25
S38	439.25
S39	447.25
S40	455.25
S41	463.25
S51	69.25
S52	76.25
S53	83.25
S54	90.25
S55	97.25

27/05/18   13:15:06

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 ⏻.
- The remote control batteries may be dead. Replace the batteries.

No picture, no sound
- Check the aerial 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.

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 a malfunction.

The picture brightness varies when you switch the TV on.
- If you switch the TV on at 0°C or under, it takes some time for the TV to warm up.

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 aerial has been 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 the batteries.

If the PIN code has been forgotten:
- 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.

Broadcast system

Broadcast transmission systems of each country or region

Asia M.E.

Country or region	Colour	Sound
Bahrain, Kuwait, Israel, Oman, Qatar, United Arab Emirates, Yemen, etc. Indonesia, Malaysia, Singapore, Thailand, etc.	PAL	B/G
China, Vietnam	PAL	D/K
China Hong Kong	PAL	I
Iraq, Islamic Republic of Iran, Lebanon, Saudi Arabia, etc.	SECAM	B/G
Russian Federation, etc.	SECAM	D/K
Myanmar, Republic of the Philippines, etc.	NTSC	M

Oceania

Country or region	Colour	Sound
Australia, New Zealand, etc.	PAL	B/G

Africa

Country or region	Colour	Sound
Republic of South Africa, etc.	PAL	I

South America

Country or region	Colour	Sound
Brazil	PAL	M
Chile, Colombia, etc.	NTSC	M

NOTE:
PAL, SECAM and NTSC 3.58 (MHz) are different colour signal broadcast transmission systems applicable to different countries or region. NTSC 4.43 (MHz) is used in special VCRs to playback NTSC recorded video tapes through PAL TV equipment.

Specifications

Power source
110V-240V AC, 50/60Hz

Power consumption
40" : 80 W, 0.5 W (standby)
50" : 97 W, 0.4 W (standby)
55" : 147 W, 0.4 W (standby)

Dimensions
40" : 904 mm (W) 568 mm (H) 181 mm (D)
50" : 1122 mm (W) 703 mm (H) 214 mm (D)
55" : 1241 mm (W) 771 mm (H) 214 mm (D)

Mass (Weight)
40" : 11.5 kg
50" : 17.5 kg
55" : 17.5 kg

TV system (Aerial input)
Analog broadcast systems
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 - 79
			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 broadcast system
DVB-T/T2 Broadcast systems

67

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.)

Standard VIDEO INPUT terminals (Colour System)
PAL, SECAM, NTSC 3.58/4.43

Aspect ratio
16 : 9

Visible size (diagonal)
40" : 100.3 cm
50" : 125.7 cm
55" : 138.8 cm

Number of pixels
1920 (H) dots × 1080 (V) dots

Audio power
10 W + 10 W

Speakers
40", 50" : Main 40 × 120 mm 2pcs.
55" : Main 30 × 96 mm 2pcs.

Input/Output terminals

⊖ (1)	Input	
COMPONENT / VIDEO INPUT	Standard video or Component video	V Y, P_B/C_B, P_R/C_R
	Phono jacks	Audio L / Mono +R
⊖ (2)	Input Phono jacks	A/V
⊖ DIGITAL AUDIO (optical)	Output Bitstream / PCM	
⊖ AUDIO (FIXED)	Output Phono jacks	Audio L / Mono, R
⊖ RGB/PC	Input Mini D-sub 15 pin Analogue RGB	
⊖ PC/HDMI 1 (AUDIO)	Input 3.5 mm (Diameter) stereo	
⊖ HDMI1-3	Input (type A) 19 pin HDMI (Lip Sync)	A/V Digital
USB port 1-2	Media Player Interface version: USB 2.0	
	USB class: Mass Storage	
	File system: FAT16 and FAT32	
LAN port	RJ-45	

Operating condition
Temperature   0°C - 35°C
Humidity   20% - 80% (No moisture condensation)

Supplied accessories
40L555∗ Series, 50L555∗ Series:
Owner's manual (1), AC power code (1), Remote control (2), Batteries (4), Screw (1) (☞ page 4), Pedestal stand (1), Screws (M5 x 8) (☞ page 3)

55L555∗ Series:
Owner's manual (1), Remote control (2), Batteries (4), Screw (1) (☞ page 4), Pedestal stand (1), Screws (M5 x 8) (☞ page 3)

- 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.

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40L5550

TRA
REGISTERED No:
ER38254/15

DEALER No:
DA35500/14

OMAN - TRA
R/2452/15
D100428

50L5550

TRA
REGISTERED No:
ER38277/15

DEALER No:
DA35500/14

OMAN - TRA
R/2451/15
D100428

55L5550

TRA
REGISTERED No:
ER38278/15

DEALER No:
DA35500/14

OMAN - TRA
R/2450/15
D100428