# TOSHIBA
**Leading Innovation ≫≫≫**

# OWNER'S MANUAL
## Integrated Digital LCD TV

SRS(○) WOW   ▷◁ DOLBY. DIGITAL   DVB®

HDMI

# 37XV500A
# 42XV500A
# 46XV500A

## 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:

VX1A00104100

# *Contents*

**Introduction**

**Getting started**

**Using the TV's features (General)**

**Other Digital TV features and settings**

**Connecting your TV**

**Reference section**

# Welcome to Toshiba

- Thank you for purchasing this Toshiba LCD Colour Television. This manual will help you use the exciting features of your new TV.
- Instructions in this manual are based on using the remote control.
- Please read all safety and operating instructions in this manual carefully, and keep this manual for future reference.

# Important Safety Instructions

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

## Installation

1) **Always connect the power plug to an appropriate electrical outlet equipped with 220-240V, AC 50Hz.**

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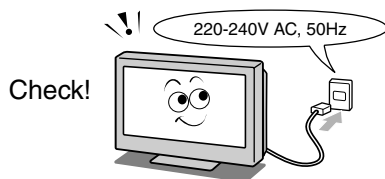


2) **Never insert or remove the power plug with wet hands.**

   This may cause an electric shock.
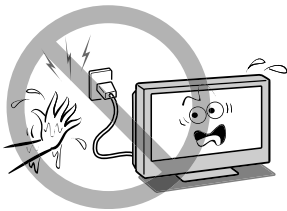


3) **Never place the TV in an unstabilized location such as on a shaky table, incline or location subject to vibration.**

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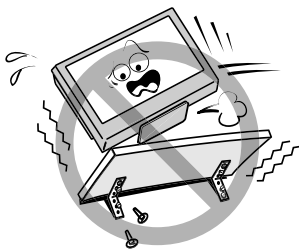


4) **Never block or cover the slots and openings in the cabinet.**
   - Never place the TV so that it is facing upward or on its side.
   - Never place the TV in a closet, bookcase or other similar area where the ventilation is poor.
   - Never drape a newspaper, tablecloth or curtain on the TV.
   -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

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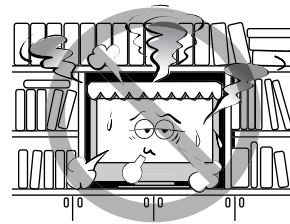


5) **Never place the TV near a heater or in direct sunlight.**

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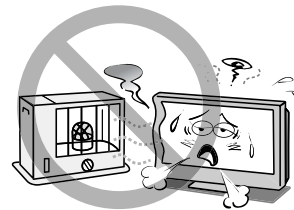


6) **Never place the TV in an area exposed to high humidity levels, such as in a bathroom or close to a humidifier.**

   This may cause a fire or an electric shock.
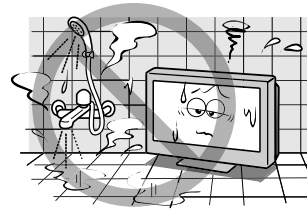


7) **Never place the TV next to a stove where it will be exposed to oil, smoke, or steam, or in a location where there is a large quantity of dust.**

   This may cause a fire or an electric shock.
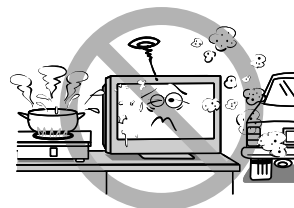
**8) Install the TV in a horizontal, stable location. Connect between two clips on the back of the TV and a wall, pillar, etc., with a sturdy tie and clip of supplied accessories (☞ page 43).**

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

Sturdy tie (as short as possible)

Clip

Clip

Clip

**Side view**          **Top view**
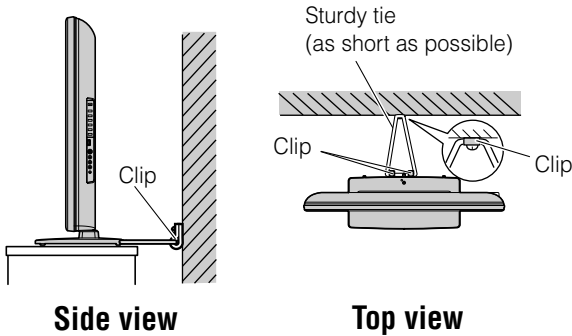
**9) Precautions for moving the TV**

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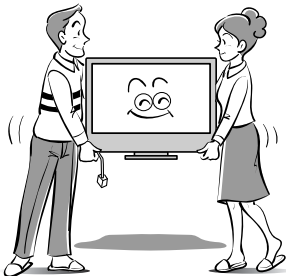
**10) Precautions for installing on outdoor aerial**

An outside aerial system should not be located in the vicinity of overhead power lines, or other electric light or power circuits.
If the aerial falls down or drops, it may cause injury or 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.
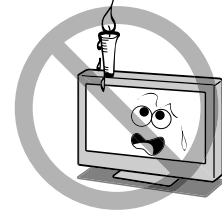
**2) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.**

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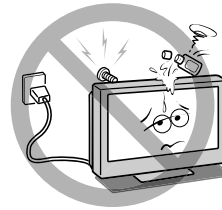
**3) Never insert objects (metal or paper) or pour water inside the TV through ventilation holes and other openings.**

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.

Clip

**4) Never stand or climb on the TV.**

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

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

- The TV is not completely disconnected from the power supply line, as minute current is consumed even when the ⏻/| Power switch is turned off.
- The Mains plug or an appliance coupler is used as the disconnect device, therefore the disconnect device shall remain readily operable.
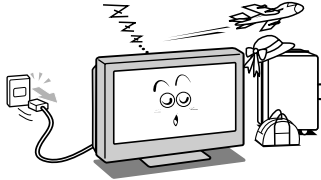
6) **Never pull on the power cord when removing the plug from the wall outlet.**

Always hold the plug firmly when removing it. If the power cord is yanked, the cord may become damaged and a fire or an electric shock may occur.
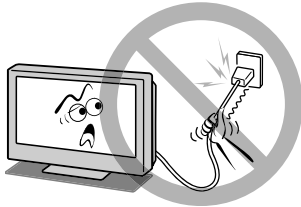
7) **Never cut, break, modify, twist, bunch up or bent the cord or apply excessive force or tension to it.**

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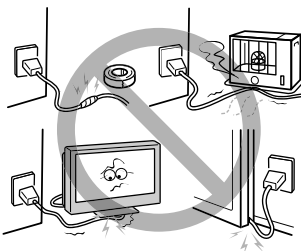
8) **If there is thunder or lightning, never touch the aerial cable or other connected cables.**

You may suffer an electric shock.
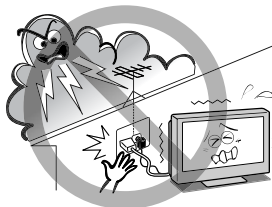
# Service

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

It may cause a fire or an electric shock. Consult a service technician for inspection and repairs.
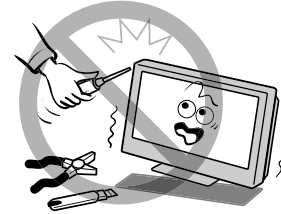
2) **When a malfunction occurs, or if smoke or an unusual odor comes from the TV, turn off the TV and remove the power plug from the outlet immediately.**

Make sure that the smoke or smell has stopped, then contact a service technician. If the TV is still used in this condition, it may cause a fire or an electric shock.
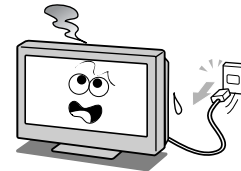
3) **If the TV is dropped or the cabinet is broken, turn off the TV and remove the power plug from the outlet immediately.**

If the TV is still power used in this condition, it may cause a fire or an electric shock. If the cabinet is broken, be careful when handling the TV to prevent an injury. Contact a service technician for inspection and repair.
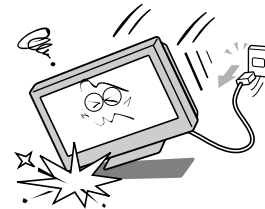
4) **When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV.**

Note:
The lamp unit contains a small amount of mercury. Disposal of mercury may be regulated due to environmental considerations.
Dispose of the used lamp unit by the approved method for your area. For disposal or recycling information, please contact your local authorities.

**5**
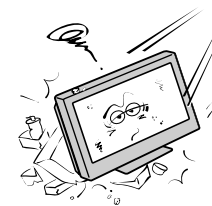
# Cleaning

**1) Remove the power plug before cleaning.**

Never use solvents such as benzine or thinner to clean the TV.
- These solvents may distort the cabinet or damage its finish.
- If rubber or vinyl products remain in contact with the TV for a long time, a stain may result.

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

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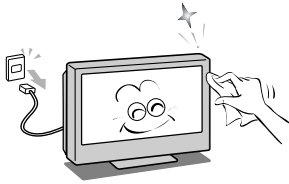


**2) Periodically disconnect the power plug from the outlet and check it.**
**If dust has collected on the power plug connectors, clean off the dust with dry cloth.**

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



Clean here

# 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 in the place such as window side or outside of the room.
- 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 discoloration or damage the cabinet and LCD screen.

**3) Some pixels of the screen do not light up**

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

**4) 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).

**5) 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 a malfunction.

**6) 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.

## 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    UHF

Outdoor aerial

Mixer

**Decoder**    **TV back view**

IN
OUT

**Media Recorder**

IN
OUT

Aerial cable (75 Ω coaxial)
(not supplied)

300 Ω twin-lead feeder

Aerial adaptor
(not supplied)

75 Ω
aerial
terminal

75 Ω coaxial cable

Plug
(not supplied)

75 Ω aerial
terminal
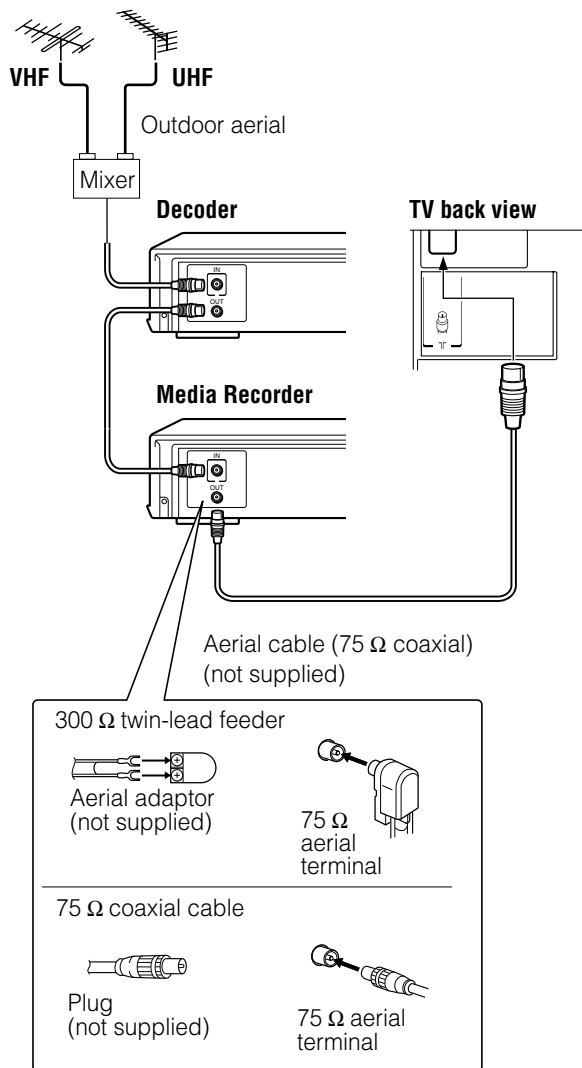
# Exploring your new TV

## Installing the remote control batteries

Remove the battery cover.

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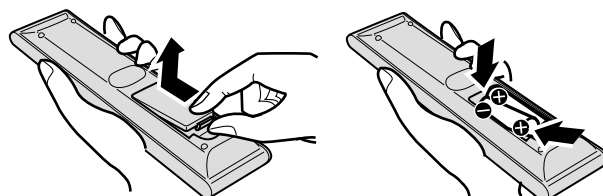
*Cautions:*
- *Dispose of batteries in a designated disposal area. Batteries must not be exposed to excessive heat such as sunshine, fire or the like.*
- *Attention should be drawn to the environmental aspects of battery disposal.*
- *Never mix battery types or combine used batteries with new ones.*

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

### Effective range

30°
30°

within 5 m
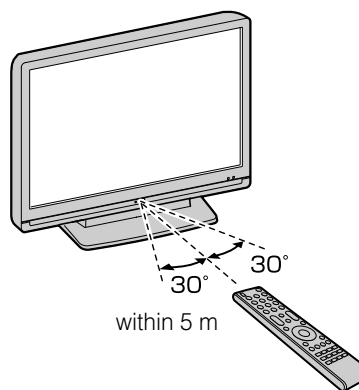
# TV front and side panel controls

- You can operate your TV using the buttons on the side panel or the remote control. The back and side of the panel provide the terminal connections to connect other equipment to your TV (☞ "Connecting your TV" pages 33 - 39).
- For the use of each control, see the pages in brackets.

**TV top view**

15°
15°

You can swivel the TV screen.
(Only 46XV500A model)
Swivel angle: 15 degrees to left and right.

**TV front view**

Headphones
(Not supplied)

**Right side view**

*1*

*2* *3* *4*

*5*
*6*
*7*
*8*
*9*
*10*
*11*
*12*

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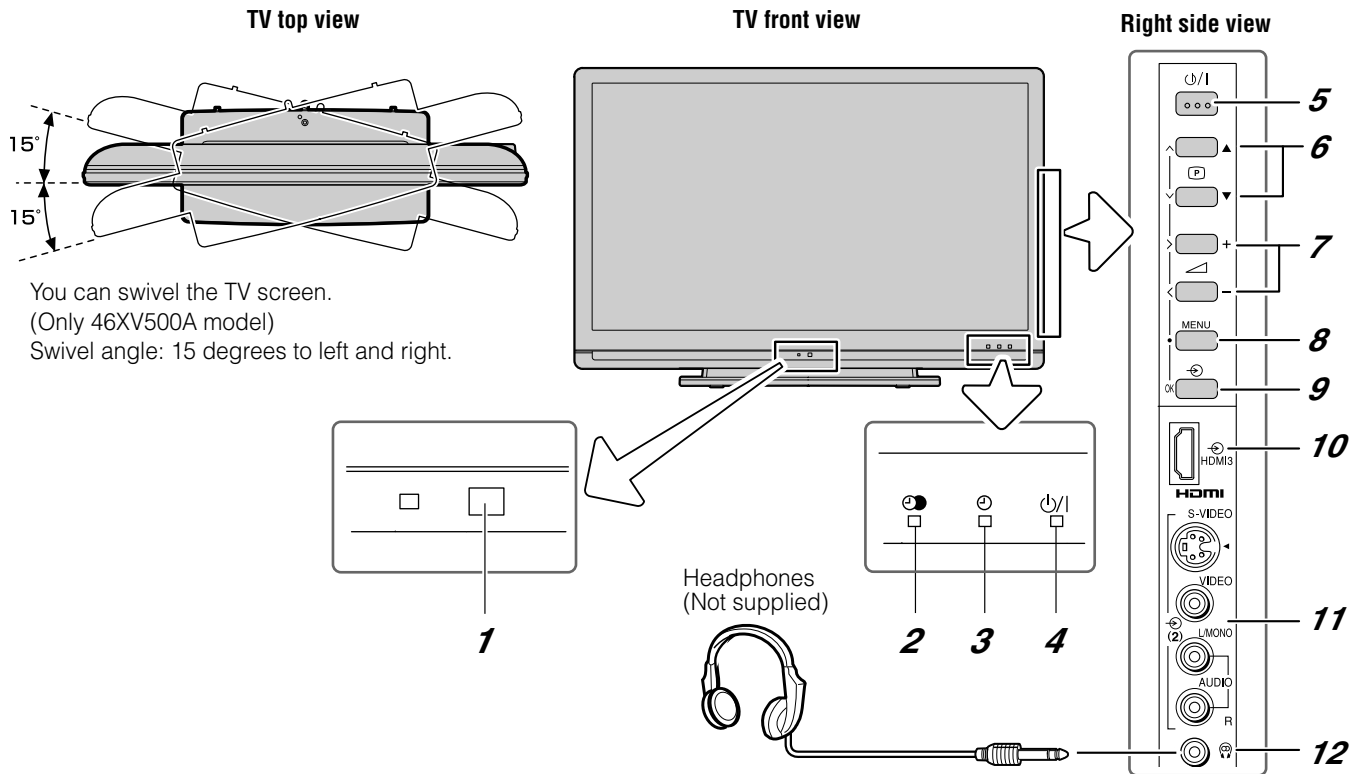
*1* **(Remote sensor)** — Point the remote control toward this remote sensor (☞ page 7).

*2* ⊙ **(Alarm Timer LED)** — Timer indicator (☞ page 25).

*3* ● **(DTV timer LED)** — Digital TV timer Recording Indicator (☞ page 24).

*4* ⏻/| **(Power LED)** — Power indicator (☞ page 12).

*5* ⏻/| **(Power on/Standby)** — Press to turn the TV on/standby (☞page 12).

*6* ℗▲▼ **(Programme position)** — When no menu is on-screen, these buttons select the programme position. (☞ page 15).
∧∨ **(MENU up/down)** — When a Analog TV menu is on-screen, these buttons function as up/down menu navigation buttons (☞ page 12).

*7* ∠ – + **(Volume)** — When no menu is on-screen, these buttons adjust the volume level (☞ page 10).
<> **(MENU left/right)** — When a Analog TV menu is on-screen, these buttons function as left/right menu navigation buttons or adjust settings (☞ page 12).

*8* **MENU** — Press to access the TV SETUP menu (☞ page 13).

*9* ↴ **(Input source selection)** — When no menu is on-screen, this button selects the input source (☞ page 25).
**OK** — When a Analog TV menu is on-screen, this button functions as the next menu navigation button (☞ page 12, 25).

*10* ↴ **HDMI3 (input terminal)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device (☞ page 35).

*11* ↴ **(2) (Video 2 input terminals)** — Optional S-video or standard video and standard audio inputs (☞ page 34).

*12* ⊙ **(Headphone jack)** — For use with headphones.

*Note:*
*When the Headphone jack is being used, the sound from all speakers will be muted, and normal sound will be output to the headphones only.*

# TV back panel connections



TV back view

* You can use the cable holder to hold aerial cable, video and audio cables etc.
**When moving the TV, never hold this holder.**

Power cord

Cable holder*

This place is used for the only service man.

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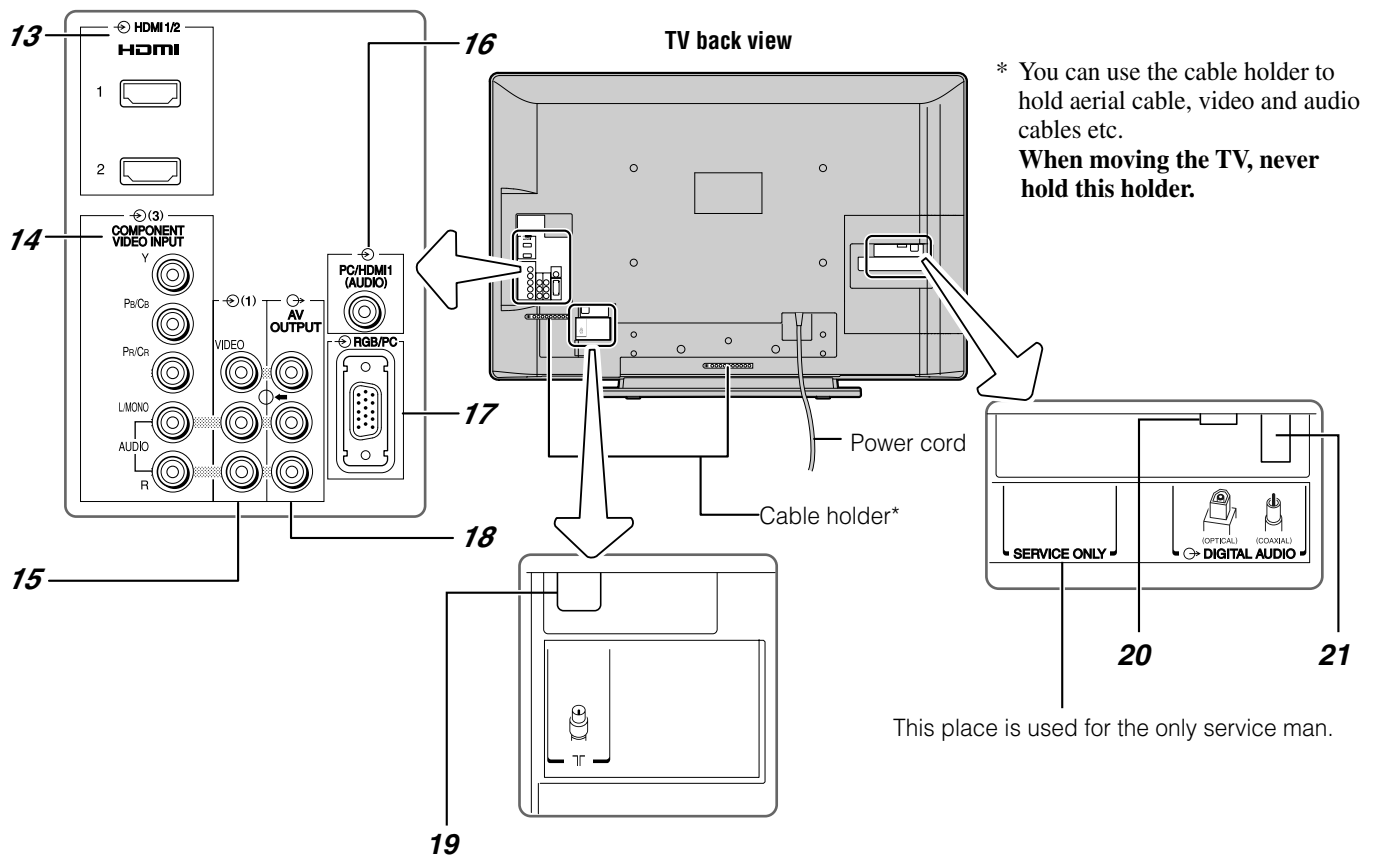
**13** ⟐ **HDMI1 and** ⟐ **HDMI2 (input terminals)** — High-Definition Multimedia Interface input receives digital audio and uncompressed digital video from an HDMI device or uncompressed digital video from a DVI device (☞ page 35).

**14** ⟐ **(3) (Video 3 input terminals)** — High-definition component video and standard (analog) stereo audio inputs (☞ page 33).

**15** ⟐ **(1) (Video 1 input terminals)** — Standard (composite) video and standard (analog) stereo audio inputs (☞ page 33).

**16** ⟐ **PC/HDMI1 (AUDIO) (input terminal)** — PC audio input terminal is shared with HDMI-1 analog audio input terminal, and their use can be configured in the **SET UP** menu. (☞ page 33, 35).

**17** ⟐ **RGB/PC (input terminal)** — For use when connecting a personal computer (PC) (☞ page 37).

**18** ⟐ **AV OUTPUT (output terminals)** — For use when connecting a VCR/HDD/DVD video recorder with standard video and standard audio inputs (☞ page 33). No On-Screen-Display will output from this terminals.

**19** 〒 **(Aerial input terminal)** — Analog aerial signal input (☞ page 7).

**20** ⟐ **DIGITAL AUDIO (OPTICAL) (output terminal)** — For use when connecting an amplifier with optical type digital audio input (☞ page 33).

**21** ⟐ **DIGITAL AUDIO (COAXIAL) (output terminal)** — For use when connecting an amplifier with coaxial type digital audio input (☞ page 33).

# Learning about the remote control

## Location of controls

To select accordingly TV, REGZA-LINK or DVD mode

Number buttons (0-9) (☞ pages 16, 24)

To return to the previous programme (☞ page 16)

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

To display digital on-screen information (☞ page 29)

• Menu △▽◁▷ (☞ page 12)
• **OK** (☞ pages 12, 25)

**MENU** (☞ page 12)

Teletext control buttons (Four coloured buttons : Red, Green, Yellow, Blue) (☞ page 27)

Picture mode selection (☞ page 19)

Picture size selection (☞ page 18)

Power on/Standby (☞ page 12)

Input source selection (DTV, ⊷1 – ⊷3, HDMI1 – HDMI3, PC, ATV) (☞ page 25)

To switch between Analog and Digital TV (☞ page 12)

Programme position ∧ ∨ (☞ page 16)

**EXIT** (☞ page 12)

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

To switch between Navigation List and Favorite List (☞ pages 16, 31)

• ⊞/⊟ To display on-screen information (☞ page 16)
• ⊟ Initial/index function for Teletext - analog only - (☞ page 28)

Teletext on/Superimpose Teletext/off (☞ pages 27)

**When using Toshiba DVD,**
   press ⏏ to EJECT
   press ■ to STOP
   press ► to PLAY
   press �II/II► to PAUSE
   press I◄◄ to SKIP REVERSE
   press ◄◄ to REVERSE
   press ►► to FORWARD
   press ►►I to SKIP FORWARD

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

Press **RETURN** to return to the previous menu accessed.

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

Press **SET UP** to access the on-screen Setup menu for setting adjustment.

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

**When in TV mode:**
SUBTITLE Digital subtitle on/off (☞ page 31)
⊙I/II Stereo/bilingual selection (☞ page 22) To display the Audio Track menu - digital only-
⊟ To access sub-pages when in teletext - analog only - (☞ page 27)
▼ Picture still (☞ page 19)

Teletext function - analog only -
⊟ To reveal concealed text (☞ page 28)
⊟ To hold a wanted page (☞ page 28)
⊟ To enlarge teletext display size (☞ page 28)
⊙/⊠ • To select a page while viewing a normal picture (☞ page 28)
   • To select the time display (☞ page 28)

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CT-90314

\* For REGZA-LINK remote control functions, please refer to "Location of controls for REGZA-LINK mode" (☞ page 11).

## Location of controls for REGZA-LINK mode

Set to REGZA-LINK

Number buttons for device

To display contents menu

To change volume of the AV amplifier

To display top menu

To operate menu

To display DVD menu

To work interactive service control on device

Picture mode selection

Picture size selection

To turn the device On/Off

To select input from external source, connected to the device

To change the channel

To exit menu or return to previous menu accessed

To Mute AV amplifier

To display set up menu

To display information

To select audio mode

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press ▲ to EJECT
press ■ to STOP
press ► to PLAY
press ‖/‖► to PAUSE/STEP
press ⏮ to SKIP REWIND
press ◄◄ to REWIND
press ►► to FAST FORWARD
press ►►⏭ to SKIP FORWARD

REGZA-LINK mode switch on the TV remote control allows the control of connected REGZA-LINK device being watched. (☞ page 26)

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

# Turning the TV on

## Switching on the TV

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

**1** Press ⏻ on the remote control or ⏻/| on the TV right side panel, the ⏻/| power indicator lights in green.

***Note:***
*If you watch black and white programmes when the colour system mode is set to Auto, colour noise may appear on the screen. In this case select the appropriate Colour system (For the system of each country or region, refer to pages 15 and 42).*

## Switching off the TV

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

***Notes:***
• *This TV is not fully disconnected from the main supply, as minute current is consumed even when ⏻/| is turned off. When the TV will not be used for a long period of time, such as during vacation or travel, remove the power plug from the wall outlet.*
• *The TV will automatically turn itself off after approximately 15 minutes if it is tuned to a vacant channel or a station that completes its broadcast for the day. This function does not work in external input or Blue screen Off mode.*
  *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.*

# Tuning the TV for the first time

**- digital only -**

Before switching on the TV, put your decoder and media recorder to **Standby** if they are connected and ensure the aerial is connected. To setup the TV use the buttons on the remote control as detailed on page 10.

**1** Press ⏻, the **Welcome** screen will appear. This screen will appear the first time that the TV is switched on and each time the TV is reset.



**2** Press (OK) to proceed.

**3** The **Select Location** screen will appear. Press ▽ or △ to select the state in which you live.
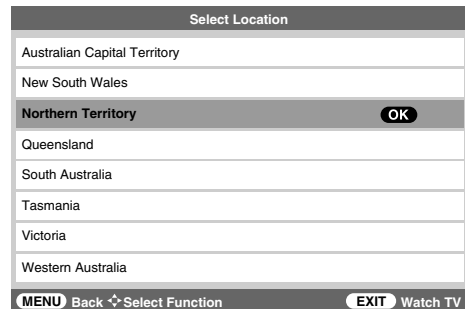


**4** Press (OK) to start tuning. The **Auto Scan** screen will appear and the TV will automatically start to search for available stations. The progress bar will move along the line.
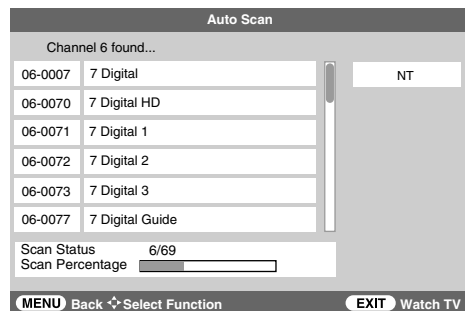


**5** When the search is completed, the TV will automatically tune to the lowest logical channel number. See the following for more details on **Auto Scan**.

***Note:***
*If you do not live in Australia, press (EXIT) at the **Select Location**.*
*Press (MENU), then press ◁ or ▷ to select **PROFILE**.*
*Press ▽ or △ to select **Time Zone** to set your time zone (☞ page 23).*
*Then use **Manual Scan** to start tuning (☞ page 14).*

This integrated TV is equipped with both Digital and Analog system. To switch between Digital and Analog TV press **ATV/DTV** on the remote control.

# 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 DIGITAL SETTING chart

This menu will display only Digital TV selected.

### PROGRAMME menu

| DIGITAL SETTINGS |
| --- |

**PROGRAMME**

| Channel List | | 🔒 |
| Favorite Mode | On | |
| Parental Rate | No Block | 🔒 |
| EPG | | |
| Timer | | |
| Alarm | | |

MENU Back ✧ Select Function  EXIT Watch TV

| DIGITAL SETTINGS |
| --- |

**PROGRAMME**

| Channel List | OK | 🔒 |
| Favorite Mode | On | |
| Parental Rate | No Block | 🔒 |
| EPG | | |
| Timer | | |
| Alarm | | |

MENU Back ✧ Select Function  EXIT Watch TV

### SCAN menu

| DIGITAL SETTINGS |
| --- |

**SCAN**

| Auto Scan | 🔒 |
| Manual Scan | 🔒 |

MENU Back ✧ Select Function  EXIT Watch TV

| DIGITAL SETTINGS |
| --- |

**SCAN**

| Auto Scan | OK | 🔒 |
| Manual Scan | | 🔒 |

MENU Back ✧ Select Function  EXIT Watch TV

### SYSTEM menu

| DIGITAL SETTINGS |
| --- |

**SYSTEM**

| Password | OK | 🔒 |
| Restore Factory Setting | | 🔒 |

MENU Back ✧ Select Function  EXIT Watch TV

| DIGITAL SETTINGS |
| --- |

**SYSTEM**

| Password | OK | 🔒 |
| Restore Factory Setting | | 🔒 |

MENU Back ✧ Select Function  EXIT Watch TV

### PROFILE menu

| DIGITAL SETTINGS |
| --- |

**PROFILE**

| Audio Preference | |
| Time Format | 24 hr |
| Time Zone | GMT +08:30 |
| Transparency | 70 |
| I-Plate Display Time | 1 sec |

MENU Back ✧ Select Function  EXIT Watch TV

| DIGITAL SETTINGS |
| --- |

**PROFILE**

| Audio Preference | |
| Time Format | 24 hr |
| Time Zone | GMT +08:30 |
| Transparency | ◄ 70 |
| I-Plate Display Time | 1 sec |

MENU Back ✧ Select Function  EXIT Watch TV

### TV SETUP menu

| DIGITAL SETTINGS |
| --- |

**TV SETUP**

Press OK for basic TV settings

MENU Back ✧ Select Function  EXIT Watch TV

PICTURE 1/2

| Picture settings | OK |
| 3D Colour management | Off |
| Base colour adjustment | |
| Active Backlight Control | On |
| Auto Contrast | On |
| x.v.Colour selection | |

MENU Back  EXIT Watch TV

## Displaying the TV SETUP menu chart

When Analog TV is selected, press (MENU) will display the TV SETUP menu.

When Digital TV is selected, select the TV SETUP menu from DIGITAL SETTING chart.

There will be some functions which not available in Digital TV and these will appear in gray scale.

### PICTURE menu

PICTURE 1/2

| Picture settings | OK |
| 3D Colour management | Off |
| Base colour adjustment | |
| Active Backlight Control | On |
| Auto Contrast | On |
| x.v.Colour selection | |

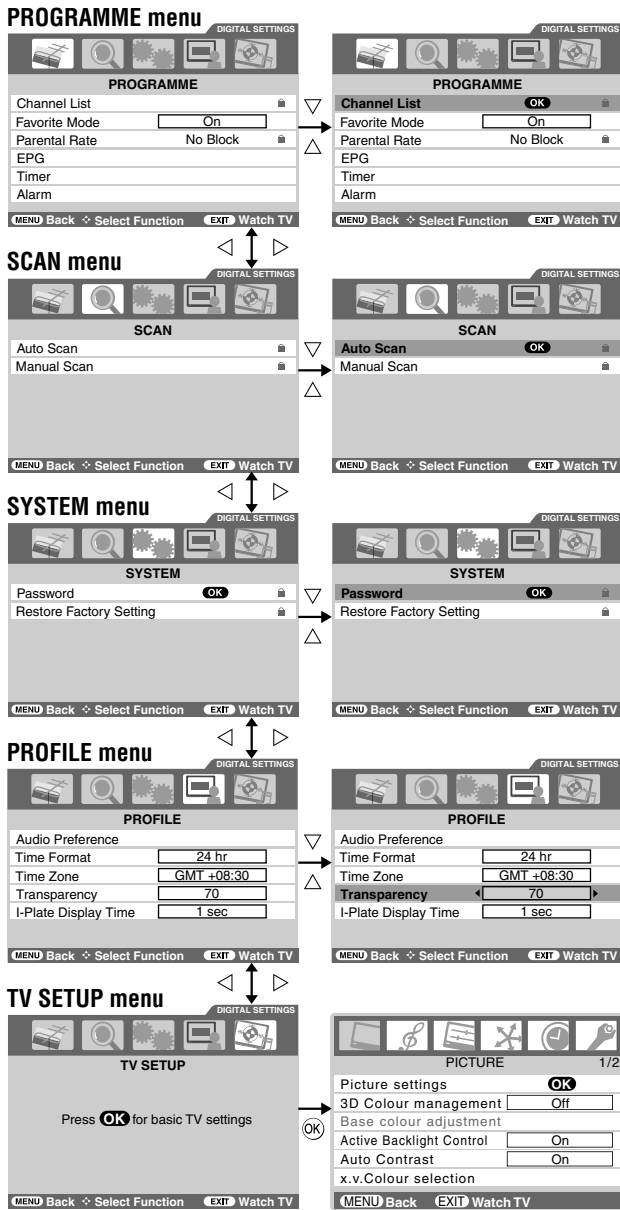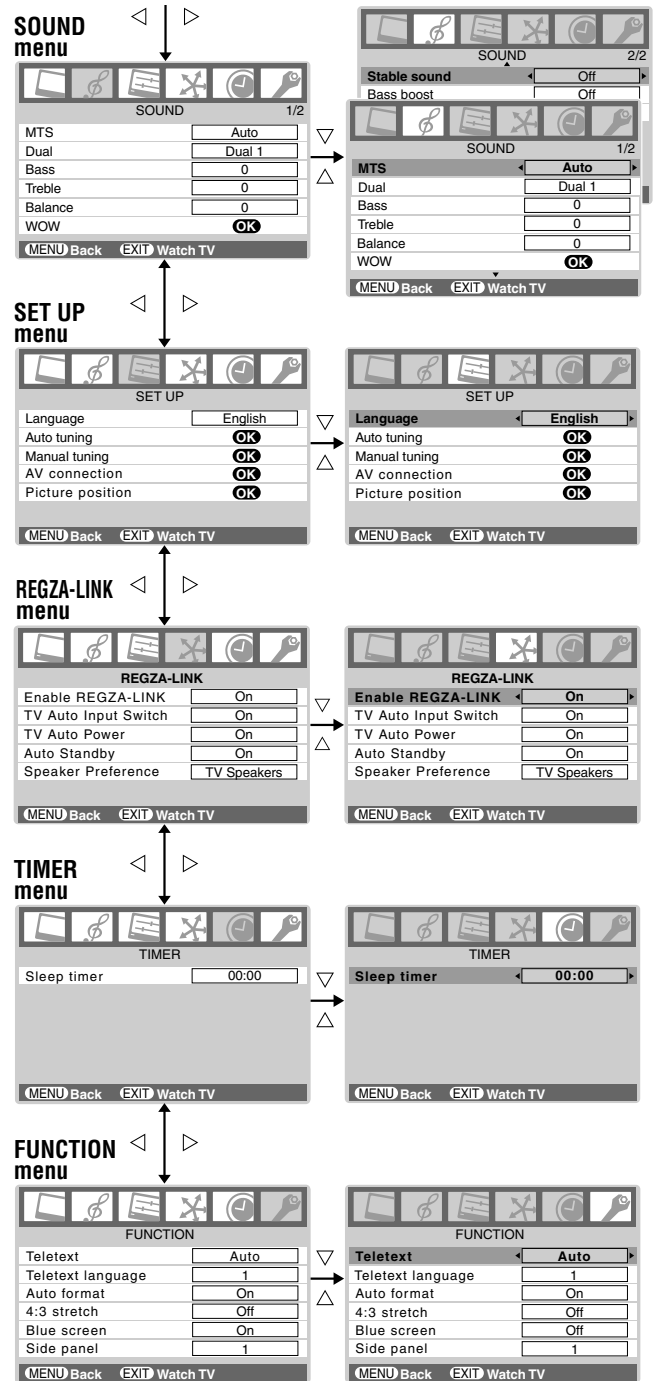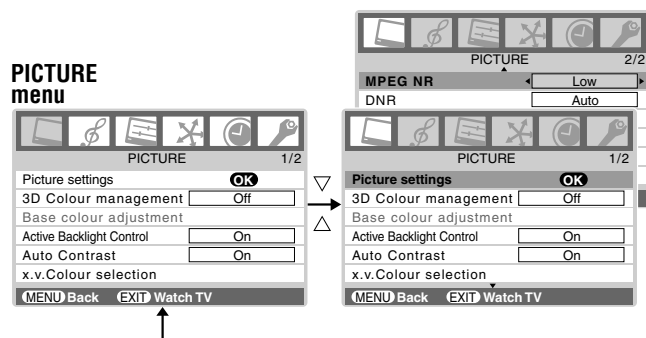MENU Back  EXIT Watch TV

PICTURE 2/2

| MPEG NR | ◄ Low ► |
| DNR | Auto |

PICTURE 1/2

| Picture settings | OK |
| 3D Colour management | Off |
| Base colour adjustment | |
| Active Backlight Control | On |
| Auto Contrast | On |
| x.v.Colour selection | |

MENU Back  EXIT Watch TV

### SOUND menu

SOUND 2/2

| Stable sound | ◄ Off ► |
| Bass boost | Off |

SOUND 1/2

| MTS | Auto |
| Dual | Dual 1 |
| Bass | 0 |
| Treble | 0 |
| Balance | 0 |
| WOW | OK |

MENU Back  EXIT Watch TV

SOUND 1/2

| MTS | ◄ Auto ► |
| Dual | Dual 1 |
| Bass | 0 |
| Treble | 0 |
| Balance | 0 |
| WOW | OK |

MENU Back  EXIT Watch TV

### SET UP menu

SET UP

| Language | English |
| Auto tuning | OK |
| Manual tuning | OK |
| AV connection | OK |
| Picture position | OK |

MENU Back  EXIT Watch TV

SET UP

| Language | ◄ English ► |
| Auto tuning | OK |
| Manual tuning | OK |
| AV connection | OK |
| Picture position | OK |

MENU Back  EXIT Watch TV

### REGZA-LINK menu

REGZA-LINK

| Enable REGZA-LINK | On |
| TV Auto Input Switch | On |
| TV Auto Power | On |
| Auto Standby | On |
| Speaker Preference | TV Speakers |

MENU Back  EXIT Watch TV

REGZA-LINK

| Enable REGZA-LINK | ◄ On ► |
| TV Auto Input Switch | On |
| TV Auto Power | On |
| Auto Standby | On |
| Speaker Preference | TV Speakers |

MENU Back  EXIT Watch TV

### TIMER menu

TIMER

| Sleep timer | 00:00 |

MENU Back  EXIT Watch TV

TIMER

| Sleep timer | ◄ 00:00 ► |

MENU Back  EXIT Watch TV

### FUNCTION menu

FUNCTION

| Teletext | Auto |
| Teletext language | 1 |
| Auto format | On |
| 4:3 stretch | Off |
| Blue screen | On |
| Side panel | 1 |

MENU Back  EXIT Watch TV

FUNCTION

| Teletext | ◄ Auto ► |
| Teletext language | 1 |
| Auto format | On |
| 4:3 stretch | Off |
| Blue screen | Off |
| Side panel | 1 |

MENU Back  EXIT Watch TV

**Notes for menu system:**
- In the video input mode (⊷*1* - ⊷*3*), **Auto tuning** and **Manual tuning** are not available. Instead, **Manual setting** appears in the **SET UP** menu (☞ page 25).
- If you connect external equipment via component video source to external input, **Colour system** selection in the **Manual setting** menu is 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).
- To return to the previous menu, press (MENU).
- In the PC input mode, **PC Setting** appears in the **SET UP** menu (☞ page 38).
- In the 480i, 576i or 1080i input signals mode, you can select the **Cinema mode** in the **Picture settings** menu (☞ page 20).
- When the colour management function turns on (☞ page 21), you can select the **Base colour adjustment** in the **PICTURE** menu.

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# Programming channels into the TV's channel memory
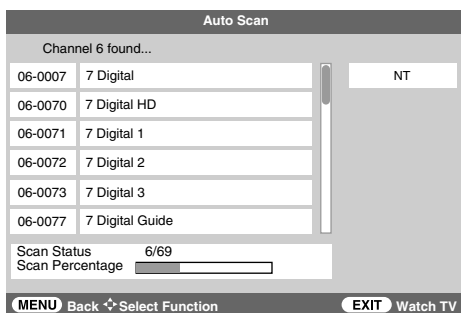
## Auto scan - digital only -

As new services are broadcast, it will be necessary to re-tune the TV in order to view them.

Auto scan will completely re-tune the TV and can be used to update the channel list. It is recommended that Auto scan is run periodically to ensure that all new services are added. All stored programmes and settings, including Timer entries, favorites and locked programmes, will be lost.

**1** Press (MENU) and ◁ or ▷ to select the **SCAN** menu.

**2** Use ▽ to select **Auto Scan**.

**3** Press (OK). If **Password Status** (☞ page 29) is **Enabled**, **Password** menu will be displayed. Enter your password using the **number** buttons or press 0000 (which is the default password).

| Password |
| --- |
| Blocking active |
| Enter PIN code |
| To temporarily unblock |
| ▄ - ▄ - ▄ |
| **MENU** Back          **EXIT** Watch TV |

**4** The **Select Location** will appear. Current location will be highlighted. Press ▽ or △ to select a state in which you live.

**5** Press (OK), a confirmation screen will appear indicating that **All existing channels will be deleted. Continue?** select **Yes**.

**6** Press (OK) to start Auto tuning.

| Auto Scan | |
| --- | --- |
| Channel 6 found... | |
| 06-0007   7 Digital | NT |
| 06-0070   7 Digital HD | |
| 06-0071   7 Digital 1 | |
| 06-0072   7 Digital 2 | |
| 06-0073   7 Digital 3 | |
| 06-0077   7 Digital Guide | |
| Scan Status        6/69 | |
| Scan Percentage | |
| **MENU** Back ✛Select Function    **EXIT** Watch TV | |

The above sample display shows **Auto Scan** in progress. The channel number is shown as "06-0007" etc., where "06" is the physical channel number and "0007" is the logical channel number (which is the 4-digit number you enter when changing channels).

**7** When the search is complete, the TV will automatically tune to the lowest logical channel number.
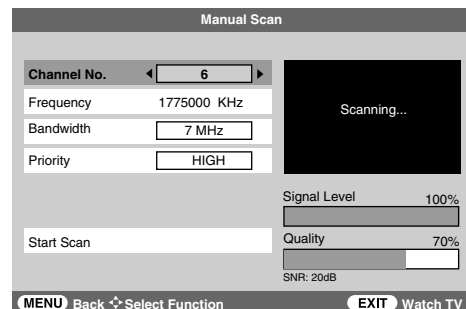
*Note:*
*After the **Auto scan**, the TV may have scanned identical channels being broadcast from different transmitters. You can verify this by **previewing** those channels in the **Channel List** with identical logical numbers and check on their physical channel numbers (☞ page 30). If you do find channels with the same logical channel numbers but different physical channel numbers, it is recommended that you skip these duplicate channels and keep only one channel with the best signal strength as indicated by the SNR indicator in the I-Plate (☞ page 16) display.*

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## Manual scan - digital only -

If there were any missing channel after **Auto Scan**, these channels might be found by using **Manual Scan** described in this section. Also, if you do not live in Australia, you must use **Manual Scan** to scan those channels in your country.

**1** From the **SCAN** menu, press ▽ or △ to select **Manual Scan**, then press (OK).

**2** Enter password using the **Number** buttons or press 0000 (which is the default password), then **Manual Scan** will appear.

| Manual Scan | | |
| --- | --- | --- |
| **Channel No.** ◀ 6 ▶ | | |
| Frequency | 1775000 KHz | Scanning... |
| Bandwidth | 7 MHz | |
| Priority | HIGH | |
| | | Signal Level      100% |
| Start Scan | | Quality           70% |
| | | SNR: 20dB |
| **MENU** Back ✛Select Function        **EXIT** Watch TV | | |

**3** Press ▽ or △ to select the item you wish to adjust. For Australia, to adjust **Frequency**, you may refer to the latest channel table from local dealer. And the **Bandwidth** is 7MHz and **Priority** should be set to **HIGH**. Then press ▽ or △ to select **Start Scan** and press (OK) to start scanning.

**4** If scanning was successful, **Get Channel Success** appeared for 2 seconds. Repeat to scan other channels as necessary.

**5** If scanning was unsuccessful, **Timeout Error** appeared. At this point you can rescan the signal or refer to the **Signal Level** bar and **Quality** for aligning the direction of the aerial to get the signal. Refer to your aerial installer if problem persists.
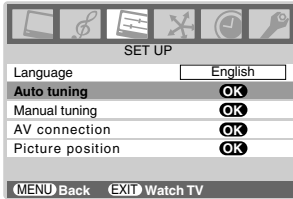
*Notes:*
- *Signal level refers to the input Radio Frequency (RF) signal strength as perceived by the TV. Note that too strong signal may cause erroneous readings. If you use an aerial booster and find that you still get a low signal level, your booster gain may be set too high. In this case, adjust the gain accordingly. You may also see the **No Signal** on the screen when the signal level is low.*
- *Quality refers to the quality of the received digital signal. A high value of quality means that there are few errors in the signal. In the same way, a low value of quality implies that there are a large number of errors in the signal, which may cause distortions in video and audio.*
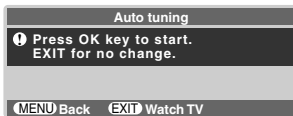
# Programming channels automatically

**- analog only -**

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.

**1** Press (MENU), then press ◁ or ▷ to display the **SET UP** menu.

**2** Press ▽ or △ to select **Auto tuning**.

|  |  |
|---|---|
| SET UP | |
| Language | English |
| **Auto tuning** | **OK** |
| Manual tuning | OK |
| AV connection | OK |
| Picture position | OK |
| MENU Back   EXIT Watch TV | |

**3** Press (OK) to display the **Auto tuning** menu.

| Auto tuning |
|---|
| ❶ Press OK key to start. EXIT for no change. |
| MENU Back   EXIT Watch TV |

**4** Press (OK) to start the automatic search.
The search will begin for all available stations.

| Auto tuning |
|---|
| Searching ▌ |
| Pos   :2 |
| EXIT Stop |
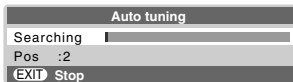
The slide bar will move along the line as the search progresses.
If you make a mistake, simply repeat steps 1-4 to start again from the beginning.

**5** When the automatic search is completed, the TV will automatically return to the first programme position.
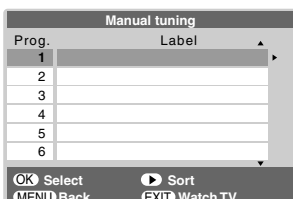
**6** Press ▽ or △ to view the programmed position.

*Note:*
*When you preset the programme channel which sound of broadcast transmission system adopts "M" system, the sound system may not be tuned correctly if the radio waves transmit badly. At that time, preset the channel by* ***Manual tuning****.*
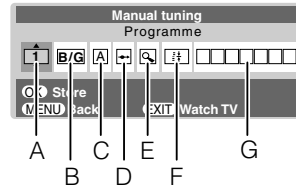
# Manually setting channels in the channel memory **- analog only -**

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.

**1** From the **SET UP** menu, press ▽ or △ to select **Manual tuning**.

**2** Press (OK) to display the **Manual tuning** menu.
Press ▽ or △ to select the programme position you want to arrange.

| Manual tuning | |
|---|---|
| Prog. | Label |
| **1** | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| OK Select | ◆ Sort |
| MENU Back | EXIT Watch TV |

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

| Manual tuning |
|---|
| Programme |
| 1  B/G  A  ↦  ◌  ⊞ □□□□□□ |
| OK Store |
| MENU Back   EXIT Watch TV |

A    C   E         G
  B    D   F

A. Programme position selection
B. Sound system (☞ page 42)
C. Colour system (☞ page 42)
   **A** : Automatic (factory set), **P** : PAL, **S** : SECAM
   **N4** : NTSC 4.43 (MHz), **N3** : NTSC 3.58 (MHz)
   If the colour of a certain channel is abnormal, the automatic colour system selection (A) may have malfunctioned, or sound system selection is wrong. In such a case, select another colour and/or sound system (☞ page 42).
D. Programme position skip selection
   Press ▽ or △ to turn the programme position skip option on "↦" or off "↦".
   The programme position will then be skipped when you select channels with **P∧** or **P∨**.
   The "↦" mark will appear beside a programme position number when you use the **Number** button on the remote control.
E. Channel search operation
   Press △ to search up the band or ▽ to search down the band.
   Press ▽ or △ repeatedly until your desired channel is displayed.
   When a station/satellite is found, it will be displayed.
   NEVER PRESS ANY OTHER BUTTONS WHILE THE SET IS TUNING.
F. Auto Fine Tuning
   Press ▽ or △ to turn the Auto Fine Tuning option on "⊞" or off "**0**".
   The Auto Fine Tuning function automatically corrects slight fluctuations when receiving signals.
   Manual Fine Tuning
   While the Auto Fine Tuning turn off "**0**", press ▽ or △ so that the better picture and sound are obtained.
G. Label
   Station labels appear under 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 ▷.

   →A-↔Z↔(↔)↔*↔+↔,↔-↔.↔/↔0-↔9↔⊔*←

   *(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.

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# Watching TV programmes
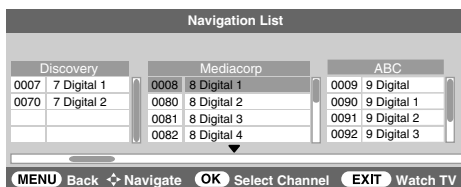
## Viewing Digital programmes - digital only -

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

- Press the **Number** buttons (a channel number has 4-digits) and you may omit the leading zeroes, which will be appended automatically; (Please note that if you have channels with different frequencies but the same channel number, the TV will always tune to the first channel that has been stored into the channel database. To view the other duplicating channels, you can select the channels from the **Navigation List** (see below) or use the **P∧** / **P∨** buttons.)
- Press **P∧** / **P∨** to view the previous and next programme. The channels are arranged in ascending order according to the channel number.
- Press (LIST/FAV) twice to display **Favorite channel** list and press ▽ or △ to select a programme, then press (OK) to view the favorite programme. Alternatively activating the **Favorite Mode**, then press **P∧** / **P∨** to select channels in **Favorite channel** list. See page 31 for more details.

## Selecting channel from Navigation List

**- digital only -**

**1** When viewing in Digital TV, press (LIST/FAV) to display the **Navigation List**.

| Navigation List | | |
|---|---|---|
| **Discovery** | **Mediacorp** | **ABC** |
| 0007 7 Digital 1 | 0008 8 Digital 1 | 0009 9 Digital |
| 0070 7 Digital 2 | 0080 8 Digital 2 | 0090 9 Digital 1 |
| | 0081 8 Digital 3 | 0091 9 Digital 2 |
| | 0082 8 Digital 4 | 0092 9 Digital 3 |

MENU Back ✧ Navigate   OK Select Channel   EXIT Watch TV

**2** Press ▽, △, ◁ and ▷ to select previewed programme, then press (OK).

**3** Press (EXIT) to exit the menu and watch the previewed channel.

**4** Press (LIST/FAV) twice to display **Favorite channel** list.

## Changing the programme position - analog only -

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

**2** You can also change the programme position by using **P∧** or **P∨**.
The programme position will be displayed on the screen with the Mono/Stereo/Dual audio status.

***Note:***
*The programme position selection change between different format channels takes several seconds.*

## Switching between two programme positions

You can switch two programme positions without entering actual position number each time.
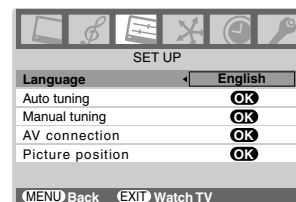
**1** Select the first programme position you want to view.

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

**3** Press (⇄). The previous channel will be displayed.

Each time you press (⇄), the TV will switch back and forth between the two programme positions.

## Selecting the menu language - analog only -

Choose from 9 different languages (English, Chinese (CS), Malay, Thai, Vietnamese, Russian, Arabic, Persian or French) for the On-Screen-Display.
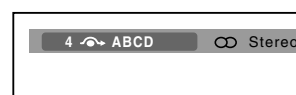
**1** Press (MENU), then press ◁ or ▷ to display **SET UP** menu.

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

**3** Press ◁ or ▷ to select the desired language.

| SET UP | |
|---|---|
| **Language** | ◀ **English** ▶ |
| Auto tuning | OK |
| Manual tuning | OK |
| AV connection | OK |
| Picture position | OK |

MENU Back   EXIT Watch TV

## Displaying the on-screen information

**- analog only -**

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

```
4 📡 ABCD        ⊙⊙ Stereo
```

The information will disappear in 6 seconds.
- Programme position or external input mode selected
- Programme skip on/off information
- Label (if set)
- Mono/Stereo/Dual audio status

**2** To close the display instantly, press (≡i) again.

## On-screen information - digital only -

When viewing in Digital TV, the on-screen information (**I-Plate**) will give the details of the channel programme currently being viewed.

**1** Press (i+), to display the **I-Plate**.

| **I-Plate** | | | | | | |
|---|---|---|---|---|---|---|
| Channel | 1202 | ABC Sydney | | | ♥ 🔒 | Dec. 25 12:30 |
| Now | | News Today | | | | |
| | | SD | TTX  CC  PG | Dolby D | | |
| Next | | Rock Concert in Sydney | | | | SNR |

i+ More Info          EXIT Watch TV
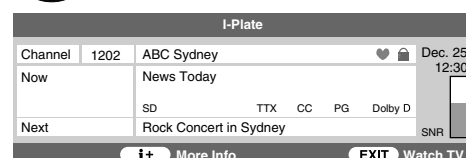
**I-Plate** contains the following information:
- Current Channel Number
- Channel Name
- Favorite status (indicated by a heart icon)
- Channel Lock status (indicated by a padlock icon on first I-Plate)
- Now and Next Programme Names
- Current date and time
- Received programme video format (SD/HD)
- Teletext availability (indicated by TTX)
- Subtitle (closed-caption) availability (indicated by CC)
- Parental Guidance code (PG, MA, G, R, etc.)
- Dolby® Digital audio track availability (indicated by **Dolby D**)
- SNR (which stands for Signal-to-noise ratio. A high SNR value means you have a reasonably good reception.)

**2** Press (i+) again to display the extended programme information (**Now** and **Next**) of the current TV channel.
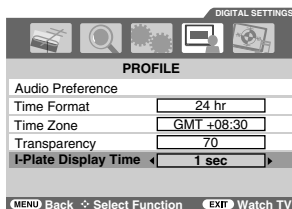
*Notes:*
- *The **Now** and **Next** information may not be present for some channels.*
- *When the **Parental Rate** is set to block, the padlock icon will appear next to the Parental Guidance code.*

| I-Plate | | | | |
|---|---|---|---|---|
| Now | Channel | 1202 | ABC Sydney | PG 🔒 |
| | Genre | News | | |
| | Title | News Today | | 12:30 - 13:30 |
| General News in Sydney, World News, Stocks, Interview, etc. | | | | |

| i+ Next | EXIT Watch TV |
|---|---|

**3** Press (i+) to switch between **Now** and **Next** extended programme information.

**4** To close the display instantly, press (EXIT). Otherwise, the information will disappear after the expiration of the set display time.

## Setting the I-Plate Display Time -digital only-

From the **PROFILE** menu, press ▽ or △ to select **I-Plate Display Time**, then press ◁ or ▷ to set the duration for which **I-Plate** will stay on the screen.

```
                        DIGITAL SETTINGS
       🗎  🔍  ▦  🖵  🎨
              PROFILE
 Audio Preference
 Time Format            24 hr
 Time Zone              GMT +08:30
 Transparency           70
 I-Plate Display Time ◁  1 sec  ▷

 MENU Back  ✛ Select Function   EXIT Watch TV
```

*Note:*
*When you turn on the TV from standby, the **I-Plate** will be displayed for a slightly shorter duration than the value set in the **Display Time** setting.*
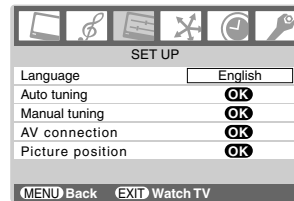
## Setting the Time Format

From the **PROFILE** menu, press ▽ or △ to select **Time Format**, then press ◁ or ▷ to select the time to be displayed **24hr** or **AM/PM** format.

## Sorting programme position -analog only-

- The TV is capable of receiving a number of different channels depending upon where you live.
- Programme sorting is an easy way of storing each channel on the programme position of your choice.

Ex.: To swap channel ABCD (Prog.1) for channel MNOP (Prog.4):

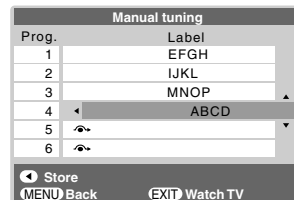**1** Press (MENU), then press ◁ or ▷ to display the **SET UP** menu.

```
       🗎  🎵  ▤  🛠  🕐  🔧
              SET UP
 Language               English
 Auto tuning            OK
 Manual tuning          OK
 AV connection          OK
 Picture position       OK

 MENU Back   EXIT Watch TV
```

**2** Press ▽ or △ to select **Manual tuning** menu, then press (OK).

**3** Press ▽ or △ to select the channel **ABCD**, then press ▷.

```
              Manual tuning
 Prog.              Label          ▲
   1                ABCD           ▶
   2                EFGH
   3                IJKL
   4                MNOP
   5       👁
   6       👁                      ▼
 OK Select        ▶ Sort
 MENU Back        EXIT Watch TV
```

**4** Press ▽ to select the new position "**4**", then press ◁.

```
              Manual tuning
 Prog.              Label
   1                EFGH
   2                IJKL
   3                MNOP           ▲
   4       ◁        ABCD
   5       👁                      ▼
   6       👁
 ◁ Store
 MENU Back        EXIT Watch TV
```

**5** Press △ to select the channel **MNOP**, then press ▷.

**6** Press △ to select the new position "**1**", then press ◁.

**7** Confirm new **Manual tuning** menu.

```
              Manual tuning
 Prog.              Label          ▲
   1                MNOP           ▶
   2                EFGH
   3                IJKL
   4                ABCD
   5       👁
   6       👁                      ▼
 OK Select        ▶ Sort
 MENU Back        EXIT Watch TV
```

# Picture adjustment

## Selecting the picture size

**1**  Press ⊞ to display the picture size list, then press ▽ or
△ to select the appropriate picture size (or press ⊞
repeatedly to select required picture size directly).

**Ex.** HDMI 1080i input signal

| Exact Scan |
|---|
| PC |
| **Wide** |
| Super Live 2 |
| Cinema 2 |
| 4:3 |
| Super Live 1 |
| Cinema 1 |
| Subtitle |
| 14:9 |
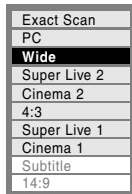
**2**  Press ⊙⊛.

**Wide**

Use this setting when watching a wide-screen DVD, wide-
screen video tape or a 16:9 broadcast (when available). Due to
the range of wide-screen formats (16:9, 14:9, 20:9 etc.), you
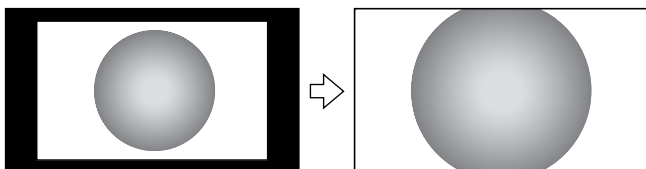may see bars on the top and bottom of the screen.
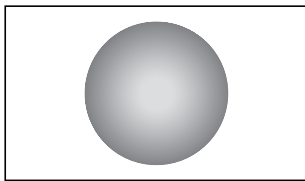
**Super Live 2**

When receiving "side panel format" signal, this setting will
enlarge the image to fit the screen by stretching the image
vertically and horizontally, holding the better proportions at
the center of the image. Also the black bars on the both sides
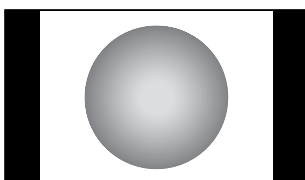of the screen will eliminate or reduce.
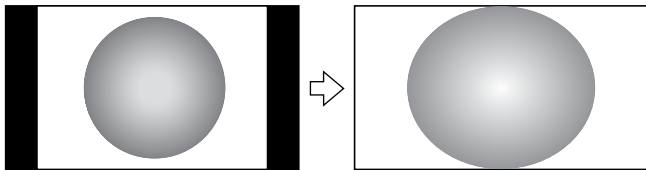
**Cinema 2**

When watching "all sides panel format" films/video tapes, this
setting will eliminate or reduce the black bars on all the sides of the
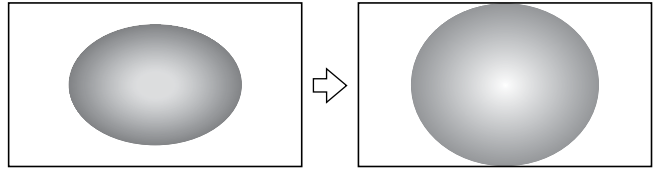screen by zooming in and selecting the image without distortion.

**4:3**

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

**Super Live 1**

When receiving "4:3 format" signal, this setting will enlarge
the image to fit the screen by stretching the image vertically
and horizontally, holding the better proportions at the center of
the image.

**Cinema 1**

When watching "letterbox format" films/video tapes, this
setting will eliminate or reduce the black bars at the top and
bottom of the screen by zooming in and selecting the image
without distortion.
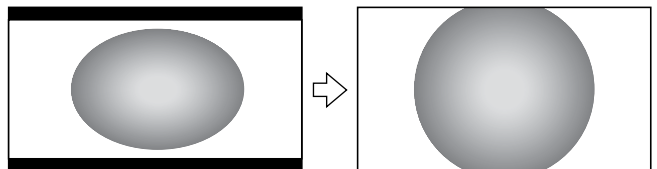
**Subtitle**

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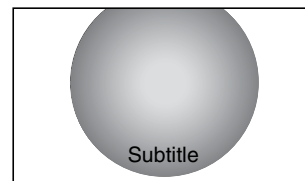
**14:9**

Use this setting when watching a 14:9 broadcast.
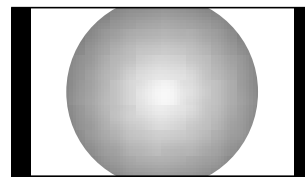
**Exact Scan**

When receiving 1080i or 1080p signal format, this setting will
display the image corrrectly without distortion or picture
clipping.

**18**

## PC

Use this setting for PC via HDMI. When receiving 1080i, 1080p or 720p signal format of HDMI input, this setting will display the image correctly without distortion or picture clipping.

### Notes:
- *Using the special functions to change the size of the displayed image (e.g. changing the height/width ratio) for the purpose of public display or commercial gain may infringe on copyright laws.*
- *If the aspect ratio of the selected format is different from the one of the TV transmission or video programme, it can cause a difference in vision. Change to the correct aspect ratio picture size.*
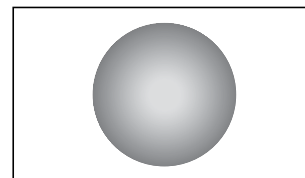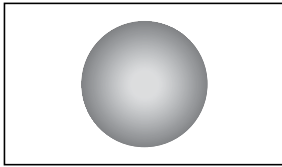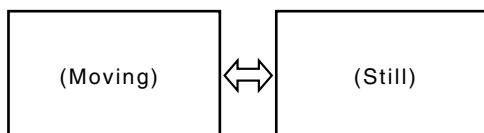- *In the PC input mode (☞ page 25), the picture size selection is wide or normal only.*
- *When using the PC input mode, the moving image quality may be deteriorated.*
- *In the 720p input signal mode, the picture size selections are **Wide**, **Super Live 2**, **Cinema 2**, **4:3**, **Super Live 1** and **Cinema 1**.*
- *In Digital TV, the picture size selections are **Super Live 1**, **Cinema 1**, **Wide**, **Super Live 2**, **Cinema 2** and **4:3**. When receiving 1080i or 1080p signal, you can additionally choose **Exact Scan**.*
- *When using **Exact Scan** you may observe a shift in picture position. This is due to the signal source and is not a defect of the TV.*
- *When DTV teletext (☞ page 28) or  Subtitle (☞ page 31) is displayed, the picture size selection is not available.*

## 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.

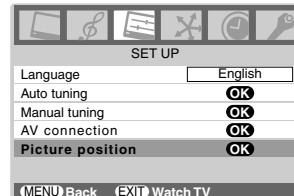To return to a moving picture, press ⏯ again.

(Moving) ⟺ (Still)

### Notes:
- *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.*
- *In the PC input mode (☞ page 25), this function is not available.*

## Adjusting the picture position - analog only -

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

**1** Press (MENU), then press ◁ or ▷ to display the **SET UP** menu.

**2** Press the ▽ or △ to select **Picture position**.

| SET UP | |
|---|---|
| Language | English |
| Auto tuning | OK |
| Manual tuning | OK |
| AV connection | OK |
| **Picture position** | OK |

(MENU) Back  (EXIT) Watch TV

**3** Press (OK), then press ▽ or △ to select an item you want to adjust.

| Picture position | |
|---|---|
| **Horizontal position** ◀ | 0 ▶ |
| Vertical position | 0 |
| Reset | OK |

(MENU) Back  (EXIT) Watch TV

**4** Press ◁ or ▷ to adjust the settings as required.
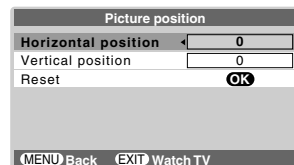
Horizontal position        0

### Note:
*When the picture format is in Wide or 4:3 mode, only the Horizontal position can be adjusted.*

## Resetting the picture position - analog only -

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

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

**2** Press (OK).

## Activating picture preferences

- The picture modes of this TV are customizable. Press ⊣🔲⊢ to view the different modes available. (The ⊣🔲⊢ button has the same function as of the **Picture Mode** in **Picture settings** menu.)
  The preset modes are: **Dynamic**, **Standard**, **Mild**, **Movie**, **Game** and **PC**. These modes affect many functions/settings of the TV. You can customize the settings of the current picture mode as desired. For example, if you select **Dynamic**, you can adjust the following settings: **Backlight**, **Contrast**, **Brightness**, **Colour**, **Tint**, **Sharpness**, **Backlight/White Level**, **Cinema Mode**, and **Colour Temperature**. Your new customized settings are stored as a **User setting**.

### Notes:
- ***Game** mode is only available in external input mode (other than aerial input). When you select **Game** mode, a suitable widescreen format will be selected.*
- ***PC** mode is only available in RGB/PC input mode or HDMI input mode.*

**1** Select **Picture settings** from the **PICTURE** menu.

| Picture settings | 1/3 |
|---|---|
| Picture Mode | Dynamic |
| **Back light** ◄ | **100** ► |
| Contrast | 100 |
| Brightness | 50 |
| Colour | 50 |
| Tint | 0 |
| (MENU) Back    (EXIT) Watch TV | |
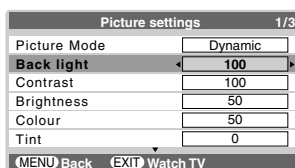
**2** Use ◁ and ▷ to adjust the **Backlight**, **Contrast**, **Brightness**, **Colour**, **Tint**, and **Sharpness**.

## Setting the black/white level

**Black/White Level** improves the definition of dark areas of the picture.

**1** From the **Picture settings** menu, press ▽ or △ to select **Black/White Level** on the 2nd page.

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

| Black/White Level | ◄ **High** ► |
|---|---|

## 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 television 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** on the 2nd page.

**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 film stabilization

The **Film Stabilization** function allows the adjustment of improves motion smoothness.

**1** From the **Picture settings** menu, press ▽ or △ to select **Film Stabilization** on the 2nd page.

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

## Using Activating the ClearFrame

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

**1** From the **Picture settings** menu, press ▽ or △ to select **ClearFrame** on the 2nd page.

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

## 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** on the 2nd page, then press (OK).

**2** Press ◁ or ▷ to select **Cool**, **Natural**, or **Warm** to suit your preference, then press (MENU).

| Color Temperature | |
|---|---|
| **Color Temperature** ◄ | **Cool** ► |
| Red Level | 0 |
| Green Level | 0 |
| Blue Level | 0 |
| (MENU) Back    (EXIT) Watch TV | |

**3** Press ▽ or △ to select **Red Level**, **Green Level** or **Blue Level**, then press ◁ or ▷ to adjust the setting as required.

## Resetting the picture settings

This function returns the picture settings to the factory settings.

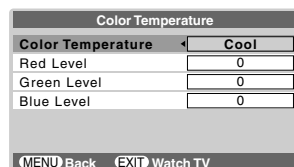**1** From the **Picture settings** menu, press ◁ or ▷ to select **Reset** on the 3rd page.

**2** Press (OK).

## Activating the MPEG NR (Noise Reduction)

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

**1** From the **PICTURE** menu, press ▽ or △ to select **MPEG NR** on the 2nd page.

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

| MPEG NR | ◄ **High** ► |
|---|---|

*Note:*
*In the PC input mode (☞ page 25), this mode is not available.*

## Activating the DNR (Digital Noise Reduction) - analog only -

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

**1** From the **PICTURE** menu, press ▽ or △ to select **DNR** on the 2nd page.

**2** Press ◁ or ▷ to select **Auto**, **Off**, **Low**, **Middle** or **High**.
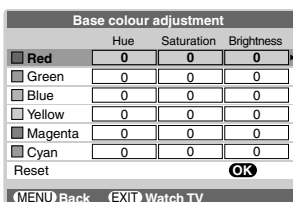
| DNR | ◄ **Auto** ► |
|---|---|

## 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**  Press (MENU), then press ◁ or ▷ to display the **PICTURE** menu.

**2**  Press ▽ or △ to select **3D Colour management**, then press ◁ or ▷ to select **On**.

| 3D Colour management ◀ | **On** | ▶ |
|---|---|---|
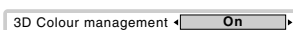
**3**  Press ▽ or △ to select **Base colour adjustment**.

**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 | | | OK |
| (MENU) Back   (EXIT) Watch TV | | | |

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

| | Hue | Saturation | Brightness |
|---|---|---|---|
| ■ Red | ▲<br>0<br>▼ | 0 | 0 |

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

*Notes:*
- *If you select colour management **Off** mode, this mode is not available.*
- *In the PC input mode (☞ page 25), 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).

## Using the active backlight control

In order to improve screen visibility, the active backlight control sets the screen brightness automatically during dark scenes.

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

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

## Activating auto contrast

When **Auto Contrast** is activated it will automatically optimize the backlighting levels to suit ambient light conditions.

**1**  From the **PICTURE** menu, press ▽ or △ to select **Auto Contrast**.

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

## Setting x.v.Colour selection

The colour range of x.v.Colour (☞ page 36) is an international standard and enables a wider colour range than conventional video applications. If the **x.v.Colour selection** is set to **Auto**, your TV will automatically detect images supporting x.v.Colour.

**1**  From the **PICTURE** menu, press ▽ or △ to select **x.v.Colour selection**.

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

*Note:*
*If a non-HDMI input is selected or the **x.v.Colour** setting in the **HDMI setting** menu is set to **Off**, this function is not available.*

## Using the auto format

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

**1**  Press (MENU), then press ◁ or ▷ to display the **FUNCTION** menu.

| FUNCTION | |
|---|---|
| Teletext | Auto |
| Teletext language | 1 |
| Auto format | On |
| 4:3 stretch | Off |
| Blue screen | On |
| Side panel | 1 |
| (MENU) Back   (EXIT) Watch TV | |
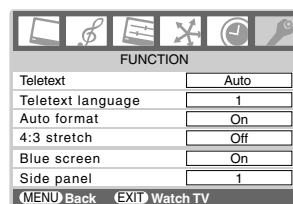
**2**  Press ▽ or △ to select **Auto format**, then press ◁ or ▷ to select **On** or **Off**.

# Sound adjustment

## Setting the MTS (Multi-channel TV Sound)
**- analog only -**

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

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

```
            SOUND            1/2
MTS                   Auto
Dual                  Dual 1
Bass                  0
Treble                0
Balance               0
WOW                   OK
                ▼
MENU Back    EXIT Watch TV
```

**2** Press ▽ or △ to select **MTS**, 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 switch (◁I/II) to ⊂⊃ Mono (monaural) (☞ page 22).*

## Selecting the dual 1 or dual 2 mode
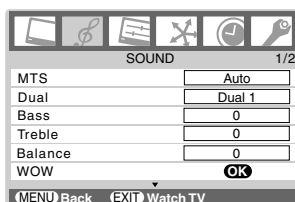
**- analog only -**

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

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

**2** Press ▽ or △ to select **Dual**, then press ◁ or ▷ to select **Dual 1** or **Dual 2**.

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

## Selecting the stereo programmes - analog only -

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

**2** Press (◁I/II) to select the stereo/monaural mode. ⊂⊃ **Stereo** and ⊂⊃ **Mono** appear cyclically on the screen.

```
  ⊂⊃ Stereo
```
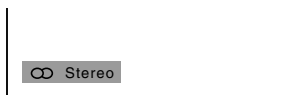
## Selecting the bilingual programmes

**- analog only -**

**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.

```
  ●○ Dual  1
```

| 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.*

## Adjusting the sound quality

**1** From the **SOUND** menu, press ▽ or △ to select an item you want to adjust.

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

```
Bass                        0
◀─ ─────────┃──────── +▶
```

| Selection | ◁ | **Pressing** | ▷ |
|-----------|-----|---------|-----|
| Bass | weaker | | stronger |
| Treble | weaker | | stronger |
| Balance | decreases the right channel | | decreases the left channel |

## Using the SRS WOW® surround sound

SRS WOW® is a special combination of SRS Labs audio technologies that creates a thrilling surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer and wider.

WOW® consists of three features; SRS 3D®, SRS FOCUS®, and SRS TruBass®, being turned on.

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

**2** Press ▽ or △ to select an item you want to adjust, then press ◁ or ▷ to adjust the settings as required.

```
            WOW
SRS 3D          ◁   Off   ▷
FOCUS               On
TruBass             High


MENU Back    EXIT Watch TV
```
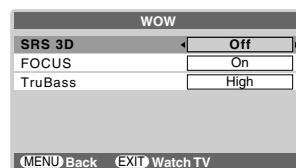
**SRS 3D**: To turn the surround effect **On** or **Off**.
**FOCUS**: To turn the vocal emphasis effect **On** or **Off**.
**TruBass**: To select the desired bass expansion level (**Off**, **Low** or **High**).

*Notes:*
• *If the broadcast is monaural, the SRS 3D® effect does not work.*
• *WOW, SRS and (●) symbol are trademarks of SRS Labs, Inc.*
• *WOW technology is incorporated under license from SRS Labs, Inc.*
• *The SRS WOW® effect is active only when the sound outputs from the speaker.*

# Using the stable sound

The Stable sound function limits the highest volume level to prevent extreme changes in volume when the signal source changes (for example, to prevent the sudden increase in volume that often happens when a TV programme switches to a commercial).

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

**2**   Press ▽ or △ to select **Stable sound** on the 2nd page.

```
      SOUND           2/2
Stable sound    ◁    Off    ▶
Bass boost           Off
Bass boost level

  MENU Back   EXIT Watch TV
```

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

*Note:*
*The Stable sound effect is active only when the sound outputs from the speaker.*

# Using the bass boost

**1**   From the **SOUND** menu, press ▽ or △ to select **Bass boost** on the 2nd page.

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

```
      SOUND           2/2
Stable sound         Off
Bass boost      ◁    On     ▶
Bass boost level     70

  MENU Back   EXIT Watch TV
```

**3**   Press ▽ to select **Bass boost level**.

**4**   Press ◁ or ▷ to adjust the Bass boost level.

**5**   To turn off the Bass boost, press ▽ or △ to display **Bass boost,** then press ◁ or ▷ to select **Off**.

*Note:*
*The Bass boost effect is active only when the sound outputs from the speaker.*

# Other feature settings

# Activating blue screen

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

**1**   Press (MENU), then press ◁ or ▷ to display the **FUNCTION** menu.

**2**   Press ▽ or △ to select **Blue screen**.

```
              FUNCTION
Teletext                Auto
Teletext language        1
Auto format              On
4:3 stretch             Off
Blue screen       ◁     On     ▶
Side panel               1
  MENU Back   EXIT Watch TV
```

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

*Note:*
*In the PC input mode (☞ page 25), this function is not available.*

# 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 **FUNCTION** menu, press ▽ or △ to select **4:3 stretch**.

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

*Note:*
*In HDMI signal format, this function is available.*

# Adjusting the brightness of side panel

You can adjust the brightness of side panel in 14:9 or 4:3, etc. mode.

**1**   From the **FUNCTION** menu, press ▽ or △ to select **Side panel**.

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

```
Side panel        ◁     1      ▶
```
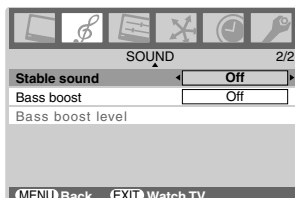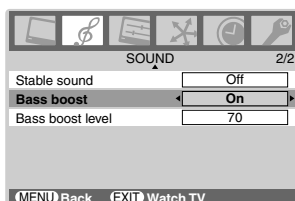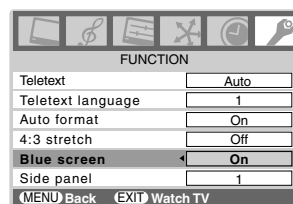
# Setting the Time zone - digital only -

This function allows you to manually set the time zone and override the location that you have chosen during Auto Scan. This is to be used when you move out of Australia to country with different time zone. Please note that if you manually change the time zone setting, all existing entries in the programme timer will become invalid as they are still based on the old time zone. It is recommended that you delete all the entries in the programme timer before proceeding with steps described below.

**1**   From the **PROFILE** menu, press ▽ or △ to select **Time zone**.

**2**   Press ◁ and ▷ to select the local time zone.

```
                        DIGITAL SETTINGS

                PROFILE

Audio Preference
Time Format              24 hr
Time zone         ◁   GMT +08:30   ▶
Transparency             70
I-Plate Display Time     1 sec

  MENU Back  ✦Select Function     EXIT Watch TV
```
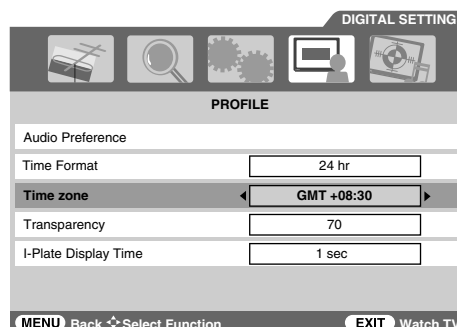
## Programme Timer - digital only -

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

**1** Press (MENU), then ◁ or ▷ to select the **PROGRAMME** menu.

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

| DIGITAL SETTINGS |
| --- |

| PROGRAMME | |
| --- | --- |
| Channel List | 🔒 |
| Favorite Mode | On |
| Parental Rate | No Block 🔒 |
| EPG | |
| **Timer** | **OK** |
| Alarm | |

MENU Back ✧Select Function          EXIT Watch TV
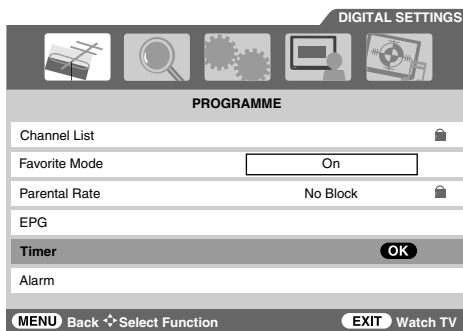
**3** Press ▽ or △ to select an empty slot to programme a timer or any existing programme to be edited, then press (OK).

| Timer | | | | | |
| --- | --- | --- | --- | --- | --- |
| | | | Tuesday, 11 Nov 2008 | 06:44 | |
| Ch. No. | Channel Name | Mode | Date | Start | End |
| 0006 | Channel 5 | Weekly-Sat | 18 Nov 2008 | 20:30 | 21:00 |
| **0007** | **Channel News Asia** | **Daily** | **11 Nov 2008** | **00:00** | **00:00** |
| 0008 | Channel 8 | Daily | 11 Nov 2008 | 00:00 | 00:00 |
| 0009 | Channel U | Once | 11 Nov 2008 | 00:00 | 00:00 |

MENU Back   ✧Select Function   OK Edit Timer   ● Delete   EXIT Watch TV

**4** Press ▽ and △ to select **Ch. No.** and ◁ or ▷ to choose the channel you want. Press ▽ and △ to select **Mode** and ◁ or ▷ to choose **Once**, **Daily** or **Weekly**. Then use the **Number** buttons to set time for **Date**, **Start** and **End** in 24-hour format.

| Timer Setting | |
| --- | --- |
| **Ch.No.** ◀ | **0007** ▶ |
| Name | Channel News Asia |
| Mode | Once |
| Date | 11 Nov 2008 |
| Start | 13:00 |
| End | 14:00 |

MENU Back   ✧Select Function   OK Enter

**5** Press (OK) to save. If you have selected a locked channel or activated **Parental Rate**, enter password when prompted.

*Note:*
*If the new entry causes a conflict with the existing entries (i.e. overlapping recording time), the new entry will not be saved.*

### To delete a selected entry:

Press the Red button, then use ▽ or △ to select **Yes**, then press (OK) (All fields will be cleared).

*Notes:*
* *When a timed programme is about to start, an information screen will appear indicating the change of current channel. The menus and other channels will not be available during the timed programme unless the programme timer is cancelled. When the programme timer expires, the TV switches to the channel from which it is switched from.*
* *If timer action occurs when the TV is in standby, the TV will turn on but no picture is seen and no sound is heard. Selected digital channel will be at the AV OUTPUT terminals (☞ page 9). The selected channel can be watched or recorded via the AV OUTPUT terminals.*
* *When the timer table is empty, the DTV timer LED (☞ page 8) will be off. When the timer table contains at least one entry, the DTV timer LED will be set to red. If timer action is in progress, the DTV timer LED will be changed from red to yellow.*
* *If Menu or EPG is still open when timer action is scheduled to start, the Menu or EPG will be closed automatically and then the timer will start.*
* *The correct operation of the Timer depends on the information received from Broadcaster's stream. The time, and the deletion of service are examples of such information. When broadcaster decides to delete any channel, the respective entries will then be deleted from the Timer-table. It is not the malfunction of the TV.*

## Setting the Alarm - digital only -

This function will turn on the TV to go to a specific TV mode or channel at a certain time.

**1** From the **PROGRAMME** menu, press ▽ or △ to select **Alarm**, then press (OK).

| Alarm | |
| --- | --- |
| **Mode** ◀ | **Off** ▶ |
| Time | 11:30 AM |
| TV mode | ATV |
| Channel | 02 |

MENU Back ✧Select Function          OK Enter

**2** Press ▽ or △ to select **Mode** and ◁ or ▷ to choose **Off**, **Once**, **Mon-Fri** or **Daily**.

**3** Press ▽ or △ to select **Time** and ◁ or ▷ to select time for TV to wake up in 10-minute increments.

**4** Press ▽ or △ to select **TV mode** and ◁ or ▷ to select the TV mode or input source you want to adjust.

**5** If **TV mode** is set to **ATV** or **DTV**, press ▽ or △ to select **Channel** and ◁ or ▷ to select desired channel to be turned on.

**6** Press (OK) to save the above settings. If you have selected a locked channel or activated **Parental Rate**, enter password when prompted.
The ⏰ Alarm Timer LED on the front of TV lights in green.

*Notes:*
* *You must press (OK) to save the Alarm settings before you exit the menu, otherwise all newly set values will be discarded.*

• *If TV is already turned on when Alarm is activated, the TV will simply switch to the specific TV mode or channel at the Alarm start time.*

• *If TV is already running the Programme Timer when Alarm is set to activate on DTV mode, on Alarm activation the Alarm will only turn on the TV (if it was in standby) but not switch to the channel specified in the Alarm setting.*

• *If TV is already running the Programme Timer when Alarm is set to activate on a TV mode other than DTV, the Alarm will perform normally.*

• *If you do not press any button on the side panel of the TV or the remote control within 2 hours after Alarm is activated, the TV will enter standby automatically.*

## 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**  Press (MENU), then press ◁ or ▷ to display the **TIMER** menu.

| | |
|---|---|
| TIMER | |
| Sleep timer | 00:00 |
| | |
| (MENU) Back | (EXIT) Watch TV |
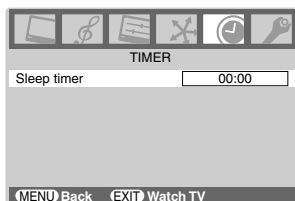
**2**  Press ▽ or △ to select **Sleep timer**.

**3**  Press **Number** buttons (0-9) to set the time period to turn off the TV. Alternatively, press ◁ or ▷ to set the time period. The timer display will set in blocks of 10 minutes to 12 hours and 50 minutes. If you press and hold ◁ or ▷ to set the time period, timer display will set in blocks of 30 minutes up to 12 hours 30 minutes.

**4**  Press (EXIT) to start the timer.

# Selecting the video input source to view

**1**  Press ⊕ on the remote control to display the video input mode list, then press ▽ or △ to select appropriate input source (or press ⊕ on the TV side panel or ⊕ on the remote control repeatedly to select required input source directly). In Analog TV, you may also press (OK) to display the video input mode list.

| |
|---|
| DTV |
| ⊕1 |
| ⊕2 |
| ⊕3 |
| HDMI1 |
| HDMI2 REGZA-LINK |
| HDMI3 |
| PC |
| ATV |

↓

**Ex.** PC VGA mode

| PC VGA |
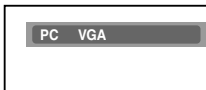
**2**  Press (OK).
DTV (Digital TV)
⊕ 1 (⊕ (1), video 1 input),
⊕ 2 (⊕ (2), video 2 input) or ⊕ 2S (S-video input),
⊕ 3 (⊕ 3, component video input),
HDMI1, HDMI2, HDMI3 (HDMI input),
PC (⊕ RGB/PC, PC input)
ATV (Analog TV)

*Notes:*
• *When the component video input, PC input mode or HDMI input mode is selected, the **AV OUTPUT** terminals (☞ page 33) output audio signal only.*

• *If a REGZA-LINK device is connected to an HDMI input, the **REGZA-LINK** icon will appear.*

• *When the TV is switched on, it will take a few minutes for the **REGZA-LINK** icon to appear in the list; when an HDMI cable is removed, it will take a few minutes for the icon to disappear.*

• *If the HDMI cable from connected device is changed or HDMI device setting are changed, **Enable REGZA-LINK** in the **REGZA-LINK** menu may need to be reset to **On**.*

## Setting the manual setting menu - analog only -

**1**  Press (MENU), then press ◁ or ▷ to display the **SET UP** menu.

| | |
|---|---|
| SET UP | |
| Language | English |
| Manual setting | OK |
| AV connection | OK |
| Picture position | OK |
| | |
| (MENU) Back | (EXIT) Watch TV |
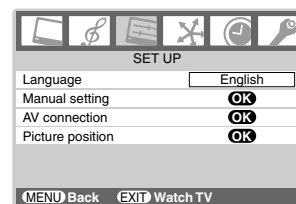
**2**  Press ▽ or △ to select **Manual setting**, then press (OK).

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

| |
|---|
| **Manual setting** |
| Colour system:Auto |
| EXT1 [A] [ ][ ][ ][ ][ ][ ][ ] |
| OK Store |
| MENU Back    EXIT Watch TV |

        A        B
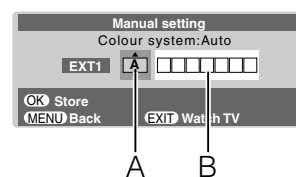
A. Colour System
  Confirm that colour system is set to "**A**" (Auto). If not, select "**A**" with ▽ or △.
B. Video label
  The video label allows you to label each input source for your TV.
  To change or create video labels:
  1) Press ▽ or △ repeatedly to select a character for the first space, then press ▷.
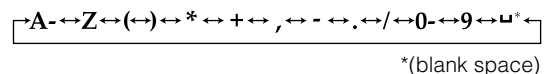
  →A-↔Z↔(↔)↔*↔+↔,↔-↔.↔/↔0-↔9↔⊔*←

  *(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.
  3) Press (OK) to store your settings.

# Using REGZA-LINK

This feature uses CEC (Consumer Electronics Controls) technology and allows the control of Toshiba REGZA-LINK compatible devices from the TV remote control via HDMI connection (☞ page 39).

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

## REGZA-LINK one touch play

When connected device is turn on REGZA-LINK will automatically detect the TV through the input selection. If the TV is in standby it will be turn on automatically. This feature is selected in the **REGZA-LINK** setup menu.

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

## REGZA-LINK 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.

## REGZA-LINK system audio control

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

Ensure that the connected AV amplifier and REGZA-LINK device are selected in the input source selection and that the **Speaker Preference** is set to **Amplifier** in the **REGZA-LINK** setup menu.

**Notes:**
* *When you turn on the AV amplifier, change its input source, or adjust the sound volume, the sound will be output from the AV amplifier's speakers even if the **TV Speakers** has been selected. Turn the TV to standby and on again to output the sound from the TV's speaker.*
* *The proper function may not work by operating AV Amplifier.*

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

## REGZA-LINK functions

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

### TV Auto Input Switch

If a connected HDMI device displays an OSD menu or starts playing video or audio, the TV will automatically switch to the appropriate HDMI input.

### TV Auto Power

If a REGZA-LINK 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 REGZA-LINK device connected to the TV.

### Speaker Preference

From this item, you can set your audio output preference to the TV speakers or the AV amplifier speakers. When this item is set to **Amplifier**, the TV remote control can be used to adjust or mute the volume of the audio. This item will be greyed out unless a REGZA-LINK compatible AV amplifier is connected.

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

## To set the REGZA-LINK set up

**1** Press (MENU) and ◁ or ▷ to select the **REGZA-LINK** menu.

```
    ┌──┬──┬──┬──┬──┬──┐
    │  │ ♪│  │ ✕│ ◔│  │
    └──┴──┴──┴──┴──┴──┘
           REGZA-LINK
    Enable REGZA-LINK  ◄     On      ►
    TV Auto Input Switch     On
    TV Auto Power            On
    Auto Standby             On
    Speaker Preference    TV Speakers

    MENU Back    EXIT Watch TV
```
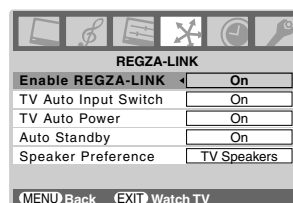
**2** Press ▽ or △ to select **Enable REGZA-LINK**, then press ◁ or ▷ to select **On**.

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

**3** Press ▽ or △ to select the REGZA-LINK set up item you want to use, and press ◁ or ▷ to select **On/Off** or the desired speakers mode.
* **TV Auto Input Switch**: **On/Off**
* **TV Auto Power**: **On/Off**
* **Auto Standby**: **On/Off**
* **Speaker Preference**: **TV Speakers**/**Amplifier**/ **Off** (See details on the previous page.)

## REGZA-LINK input source selection

When any devices using CEC technology has connected, REGZA-LINK icon shows on the input source list.

```
           ⊕:
    ┌──────────────────┐
    │ DTV              │
    │ ⊕1               │
    │ ⊕2               │
    │ ⊕3               │
    │ HDMI1            │
    │ HDMI2  REGZA-LINK│
    │ HDMI3            │
    │ PC               │
    │ ATV              │
    └──────────────────┘
```

To select the REGZA-LINK input source, refer to "Selecting the video input source to view" on page 25.

*Notes:*
- *This function depend on the devices connected.*
- *When the TV is switched on, it will take a few minutes for the REGZA-LINK icon to appear in the list; when an HDMI cable is removed, it will take a few minutes for the icon to disappear.*
- *If the HDMI cable from connected device is changed or HDMI cable from connected device setting are changed, Enable REGZA-LINK in the REGZA-LINK menu may need to be reset On.*

## To control the REGZA-LINK device

First select the **HDMI** input source with the desired REGZA-LINK device connected, then switch the mode on the remote control to **REGZA-LINK** and press the available button on the remote control (☞ page 11).

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

Power standby, Volume, Program channel, Sound mute, Input selection, Number buttons, Previous programme channel.

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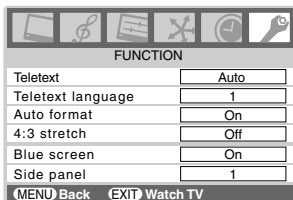
# Teletext in Analog TV

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** Press (MENU), then press ◁ or ▷ to display the **FUNCTION** menu.

| FUNCTION | |
|---|---|
| Teletext | Auto |
| Teletext language | 1 |
| Auto format | On |
| 4:3 stretch | Off |
| Blue screen | On |
| Side panel | 1 |
| MENU Back | EXIT Watch TV |

**2** Press ▽ or △ to select **Teletext language**, then press ◁ or ▷ to select the required language.
- **Language 1:** English, German, Dutch, Flemish, Russian, Byelorussian, Bulgarian, Ukranian, 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 the **FUNCTION** menu, press ▽ or △ to select **Teletext**.

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

*Note:*
*When you are watching the teletext programme, SET UP menu and FUNCTION menu are not selectable.*

## Teletext general information

### (TEXT) button:

Pressing (TEXT) once will bring up the teletext screen. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode. You need to return to normal viewing if you wish to change channels.

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

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

In **LIST** mode, you will see the page numbers currently stored 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 ▤◉, then use P∧ / P∨ to view them.**

*Note:*
*If you press ▼ while the picture mode is activated, this mode will be cancelled.*

## Using Auto mode

There are two Modes: **Auto** will display FASTEXT or TOPTEXT, 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.

**Ex.** FASTEXT

| 100 Sport | 14:57:55 |
|---|---|

| Football | Baseball | Racing | Swimming |
|---|---|---|---|

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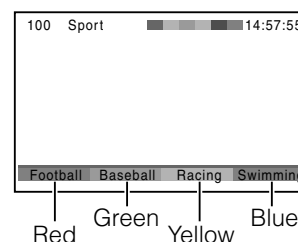
If FASTEXT or TOPTEXT is available, you will see 4 coloured titles at the bottom or top of the TV screen respectively. To access any given subject, simply press the relevant coloured button on the remote control.

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

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

## Using LIST mode

**1** Press (TEXT) to access teletext.

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



        100      200      300      400
```
Red    Green   Yellow    Blue
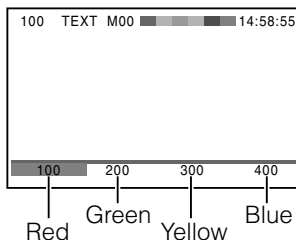
The four choices at the bottom of the screen are now number – **100**, **200**, **300** and **400**, which have been programmed into the TV's memory.

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

**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.

```
100   TEXT  M00 ▮▮▮         14:58:59



        100      250      300      400
```

This number will change in the top left of the screen and in the coloured highlight.

**4** Press (OK) to store your choice. The bars at the bottom of the screen will flash white.

**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

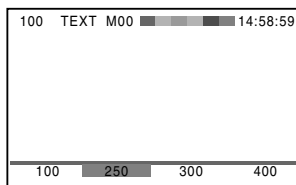Below is an introduction to the teletext buttons on your remote control and their functions.

### ☰**i** To display an index/initial page:
**In Auto-mode**

Press ☰**i** to access the index page. The one displayed is dependant on the broadcaster.

**In LIST-mode**

Press ☰**i** to return to the 100 page or initial page.

### ☰**?** To reveal concealed text:
Some pages cover topics such as quizzes and jokes. To discover the solutions, press ☰**?**.

### ☰▤ To hold a 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 (TEXT) 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 5 seconds.

9:56 and 25 seconds p.m.

```
                              21:56:25


```

*Note:*
*If you press ▼ while this mode is activated, this mode will be cancelled.*

# Teletext in Digital TV

**1** When I-Plate indicates the presence of Teletext (TTX) in a channel, press (TEXT) to view Teletext. Press (TEXT) again to superimpose the Teletext over a normal broadcast picture. Press again to close Teletext and watch TV.

**2** Press **P∧** and **P∨** to select Teletext page. Press the **Number** buttons to input a Teletext page to view the page directly. If FASTEXT is available, simply press the relevant coloured button on the remote control.

**3** Press (EXIT) to close the Teletext and watch TV.

# Setting the EPG (Electronic Programme guide)

**1** Press (MENU), then ◁ or ▷ to select **PROGRAMME** menu.

**2** Press ▽ or △ to select **EPG** then, press (OK) to display **EPG**. Alternatively, press (GUIDE) to display EPG directly.

| EPG | | |
|---|---|---|
| Contents | | Tuesday, 04 Nov 2008  06:25 |
| Tuesday, 04 Nov | | |

| Channel ▲ | | Programmmes ▲ | |
|---|---|---|---|
| 0006 | Channel News Asia | **NOW** | **World Today** |
| 0008 | Channel 8 | 06:30 | Headlines |
| 0009 | Channel U | 06:35 | Amazing Asia |
| 0012 | Suria | 07:00 | Asia Today |
| 0013 | Arts Central | 07:30 | Headlines |
| **0013** | **Arts Central** ▶ | 07:35 | Euromax |
| 0013 | Arts Central | 07:50 | ABC |

MENU Back ✧Navigate    ─ ⊕＋ Day   ● Add to Timer   EXIT Watch TV
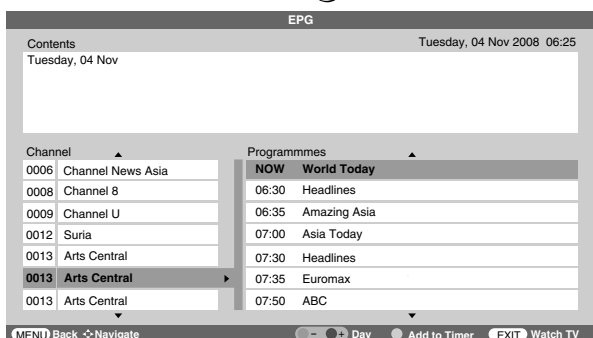
**3** Press ▽ and △ to select the channel, names of the programme being broadcast will appear, press ▷, then ▽ and △ to select a particular programme.

**4** When the extended programme information is received for selected programme, it will appear in the **Contents** box. If the selected programme is also the "NOW" programme, the preview window will appear to the right of the extended programme information.

**5** Press the Yellow and Blue button to change the day. Up to seven days from today can be selected.

**6** Confirm the programme, then press the Red button to display the **Timer Setting** menu.
If you have locked channel or activating **Parental Rate**, enter the password when prompted.

| Timer Setting | |
|---|---|
| Ch.No. | 0007 |
| Name | Channel News Asia |
| **Mode** | ◀ **Once** ▶ |
| Date | 04 Nov 2008 |
| Start | 13:00 |
| End | 14:00 |

MENU Back ✧Select Function   OK Enter

**7** Press ◁ or ▷ to change the Mode, then press (OK) to save.

**Note:**
*Toshiba does not provide **EPG** data; therefore Toshiba is not liable for the content of such data. The data provider may elect to discontinue the service or it may cease to be (or never be) available in your area. In any of these circumstances, the **EPG** feature will not function. Toshiba is not liable in the event that this service is unavailable or for any consequences arising from customers having used or not being able to use this service.*

# Password

In Digital TV, channels and programmes can be locked to prevent viewing of unsuitable films and programmes. These can only accessed with a password. Default password is 0000.

# Setting the Password

**1** Press (MENU), then press ◁ or ▷ to select the **SYSTEM** menu.

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

| DIGITAL SETTINGS | |
|---|---|
| **SYSTEM** | |
| **Password** | OK 🔒 |
| Restore Factory Setting | 🔒 |

MENU Back ✧Select Function    EXIT Watch TV

**3** Enter your password using the **number** buttons or press 0000 (which is the default password).

**4** Press ▽ or △ to select **Set Password**, then press (OK).

| Password | |
|---|---|
| Password Status | Enabled |
| Set Password | OK |

MENU Back ✧Select Function    EXIT Watch TV
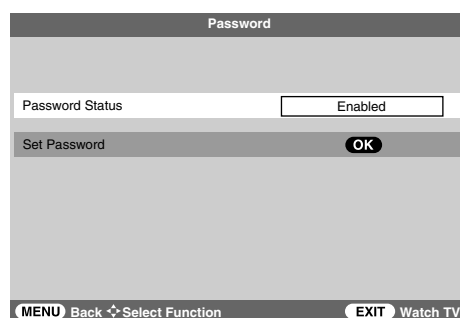
**5** Use the Number buttons to enter 4-digit Password and enter the same 4-digit password to confirm.

| Set Password | |
|---|---|
| New Password | ▪ ▪ ▪ ▪ |
| Confirm Password | ▪ ▪ ▪ ▪ |
| | INCORRECT |

MENU Back    ▦ Direct Input   EXIT Watch TV
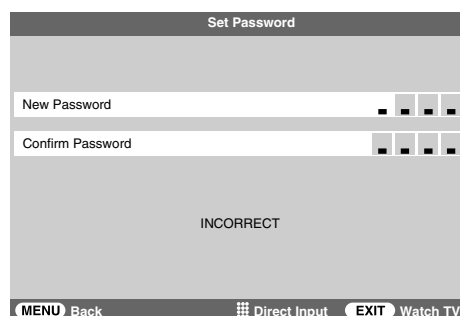
## Select the Password Status

This option allows you to enable or disable the password.

**1** From the **Password** menu, press ▽ or △ to select **Password Status**.

**2** Press ◁ or ▷ to select **Enabled** or **Disabled**.
When status is set to **Disabled**, you will not be prompted for password for all menus and channels (except **Password** menu itself). All currently locked status and parental rate will be reset to default if you disable the password.

# Parental rate

The type of programme displayed on the TV can be limited based on the parental guidance codes. See Appendix for Australian parental guide code.

## Setting the parental rate

**1** Press (MENU), then press ◁ or ▷ to select the **PROGRAMME** menu.

**2** Press ▽ or △ to select **Parental Rate**, then press (OK).

| | DIGITAL SETTINGS |
|---|---|
| **PROGRAMME** | |
| Channel List | 🔒 |
| Favorite Mode | On |
| **Parental Rate** | **No Block** 🔒 |
| EPG | |
| Timer | OK |
| Alarm | |
| MENU Back ✧ Select Function | EXIT Watch TV |

**3** Enter password when prompted.

**4** Press ▽ and △ to select the suitable Rating, then press (OK) to save.

# Channel list

## Setting favorite, locking and skipping channels

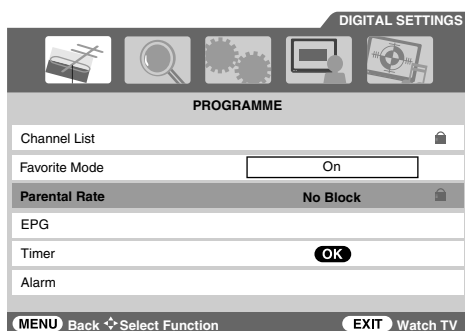**1** Press (MENU), then press ◁ or ▷ to select the **PROGRAMME** menu.

**2** Press ▽ or △ to select **Channel List**, then press (OK).

**3** Enter password when prompted.

| | Channel List | | | |
|---|---|---|---|---|
| 📺 0006 | Channel News Asia | ⊙ | ♥ | |
| ♪ 0007 | Demo | | | 🔒 |
| 📺 0009 | Channel U | | | |
| 📺 0011 | Suria | ⊙ | ♥ | 🔒 |
| 📺 0012 | Channel News Asia | | ♥ | |
| 📺 0013 | Arts Central | | | |
| 📺 0013 | Arts Central | ⊙ | | |
| 📺 0013 | Arts Central | | | |
| 📺 0013 | Arts Central | | | |
| 📺 0013 | Arts Central | | | |
| 📺 0013 | Arts Central | | | |
| ♪ 0014 | Radio | | | |
| 📺 0015 | Arts Central | | | |
| 📺 0015 | Arts Central | | | |

Previewing Channel 02-0011 🔒
📺 Suria ♥ 🔒
News Today 10:30 - 12:30
HD TTX CC PG Dolby D

● Skip ● Edit Name ● Favorite ● Lock
MENU Back ✧ Select OK Preview EXIT Watch TV

**4** The current watching channel will be highlighted as the first entry and appear in the preview window.

**5** Press ▽ and △ to select channels, then press (OK) to preview the channel. When channel with 📺 is selected, you will see the video being displayed in the preview window. And when channel with ♪ is selected, preview window displays radio-graphics, along with the detailed channel information shown below the window.

**6** Press the Yellow button to mark the channel as favorite (♥). To reset, press the Yellow button again.

*Note:*
*When you mark one or more channels in the **Channel List** as favorites, you can turn on **Favorite Mode** in the **PROGRAMME** menu.*

**7** Press the Blue button to lock (🔒) the selected channel. To reset, press the Blue button again.

*Note:*
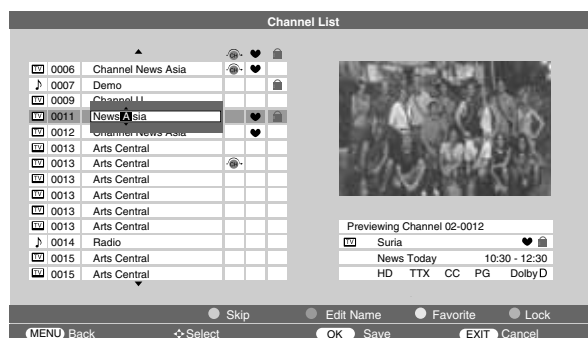*When any of the locked channels is selected, the password must be entered before they can be accessed.*

**8** Press the Red button to mark the selected channel for skip (⊙). Skipped channels will not appear in the Navigation List, Favorite, EPG, Timer and Alarm.

*Note:*
*Broadcasters may from time to time update the service information of their channels. If there is any change in the channel information or broadcasting parameters, the favorite, lock and skip status of the channels might be restored to the default setting.*

## Editing channel names

**1** In **Channel List**, press ▽ or △ to select channel, then press (OK) to preview the channel, then press the Green button to edit the name of the selected channel.

| | Channel List | | | |
|---|---|---|---|---|
| 📺 0006 | Channel News Asia | ⊙ | ♥ | |
| ♪ 0007 | Demo | | | 🔒 |
| 📺 0009 | Channel U | | | |
| 📺 0011 | News Asia | | ♥ | 🔒 |
| 📺 0012 | Channel News Asia | | ♥ | |
| 📺 0013 | Arts Central | | | |
| 📺 0013 | Arts Central | ⊙ | | |
| 📺 0013 | Arts Central | | | |
| 📺 0013 | Arts Central | | | |
| 📺 0013 | Arts Central | | | |
| 📺 0013 | Arts Central | | | |
| ♪ 0014 | Radio | | | |
| 📺 0015 | Arts Central | | | |
| 📺 0015 | Arts Central | | | |

Previewing Channel 02-0012
📺 Suria ♥ 🔒
News Today 10:30 - 12:30
HD TTX CC PG Dolby D

● Skip ● Edit Name ● Favorite ● Lock
MENU Back ✧ Select OK Save EXIT Cancel

**2** Use ▽, △, ◁ and ▷ to edit the name. Press (OK) to save or (EXIT) to cancel.

## Favorite Channel List

**1**  When viewing in Digital TV, press (LIST/FAV) to display the **Navigation** list.

**2**  Press (LIST/FAV) again to display **Favorite Channel** list.

```
                    Favorite Channel

        0200   ABC DiG Radio        OK
        0201   ABC DiG Jazz
        0350   Digital 5
        0351   Digital 8
        0352   Digital CNA
                        ▼
        MENU  Back              EXIT  Watch TV
```
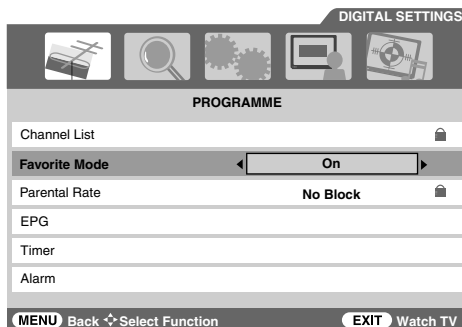
**3**  Press ▽ and △ to select your favorite channel, then press (OK).

## Favorite Mode

This function enables or disables the favorite mode. When the **Favorite Mode** is set to **On**, you can change the programme by using **P⌃** or **P⌄** while you are watching TV.

**1**  From the **PROGRAMME** menu, press ▽ or △ to select **Favorite Mode**, then press ◁ or ▷ to select **On** or **Off**.

```
                              DIGITAL SETTINGS

                  PROGRAMME

        Channel List                          🔒
        Favorite Mode         ◀      On      ▶
        Parental Rate              No Block    🔒
        EPG
        Timer
        Alarm

        MENU  Back ✧Select Function    EXIT  Watch TV
```

**Note:**
*The favorite mode can only be activated if one or more channels in the Channel List are marked as favorites. Similarly, if the favorite status is removed from all the channels in the Channel List, the favorite mode is turned off automatically.*

## Subtitle

**1**  When **I-Plate** indicates the presence of Subtitle (CC) in a channel, press (SUBTITLE) to display the current **Subtitle** status. While this status is displayed, press again to change the setting. Subtitle On or Off can be selected.

**2**  If you switch off the TV, the **Subtitle** mode will be remembered the next time it is switch ON.
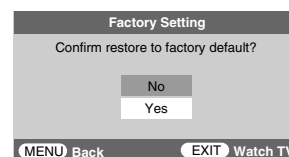
**Notes :**
- *If **Subtitle** is ON, the TV will always display subtitle whenever such information is available in the channel you are viewing. You may use **I-Plate** to check if subtitle is currently available.*
- *In Australia, you may also view **Subtitle** by directly entering page 801 in Teletext. However, by doing so, the TV remains in Teletext mode and you cannot change the channels because **P⌃** and **P⌄** will change Teletext pages rather than channels. To view subtitle, it is recommended that you turn on Subtitle mode.*

## Restore factory setting

This function will delete all stored digital channels and settings. The TV will return to default factory settings.

**1**  From the **SYSTEM** menu, press ▽ or △ to select **Restore Factory Setting**, then press (OK).

**2**  A screen will appear prompting for password. Enter your password using the **Number** buttons or press 0000 (which is the default password).

**3**  A confirmation screen will appear indicating that **Confirm restore to factory default ?**, select **Yes** and press (OK).

```
                    Factory Setting
            Confirm restore to factory default?

                        No
                        Yes

        MENU  Back              EXIT  Watch TV
```
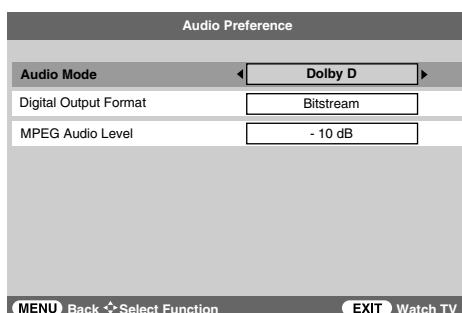
**4**  The **Welcome** screen will appear (see page 12 for the "Tuning the TV for the first time").

# Audio Preference

## Selecting The Audio Mode

**1** From the **PROFILE** menu, press ▽ or △ to select **Audio Preference**, then press (OK).

**2** Press ◁ or ▷ to select **Audio Mode**.

| Audio Preference | | |
|---|---|---|
| Audio Mode | ◀ Dolby D ▶ | |
| Digital Output Format | Bitstream | |
| MPEG Audio Level | - 10 dB | |

**MENU** Back ✧Select Function          **EXIT** Watch TV

**3** Press ◁ or ▷ to select **Dolby D** or **MPEG**.
 **Dolby D**: If you select this option, the TV will select the first Dolby Digital audio track, if available. However, if the channel does not contain any Dolby Digital audio track, then the first available MPEG audio track will be selected.
 **MPEG**: If you select this option, the TV will select the first MPEG audio track, if available. However, if the channel does not contain any MPEG audio track, then the first available Dolby Digital audio track will be selected.

## Digital Output Format

**1** From the **Audio Preference**, press ▽ or △ to select **Digital Output Format**.

**2** Press ◁ or ▷ to select **Bitstream** or **PCM**
 **Bitstream**: Select this when an amplifier equipped with builtin Dolby Digital or MPEG decoder is connected to this TV.
 **PCM**: Select this when a 2ch digital stereo amplifier is connected to this TV. When you select a Dolby Digital or MPEG audio track in Audio Track, the sound is converted to the PCM (2ch) format and output.
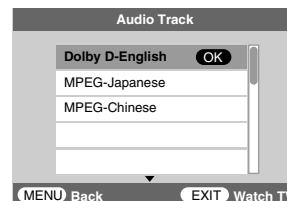
## MPEG Audio Level

**1** From **Audio Preference**, press ▽ or △ to select **MPEG Audio Level**.

**2** Press ◁ or ▷ to adjust the **MPEG audio level** from –10dB to 0dB. This setting will not be applicable to Dolby Digital audio.

**Note:**
*Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.*

## Audio Track

**1** Press (◻/⫶) to display **Audio Track** directly.

**2** Press ▽ or △ to select the preferred audio track present in the programme being watched, then press (OK).

| Audio Track | |
|---|---|
| **Dolby D-English** | OK |
| MPEG-Japanese | |
| MPEG-Chinese | |

**MENU** Back          **EXIT** Watch TV

# Transparency

**1** From the **PROFILE** menu, press ▽ or △ to select **Transparency**.

**2** Press ◁ or ▷ to adjust the degree of On-Screen-Display transparency.

Transparency
0                    90

**MENU** Back          **EXIT** Watch TV
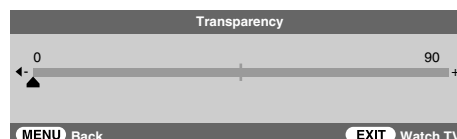
# TV Setup

**1** Press (MENU), then press ◁ or ▷ to select the **TV SETUP** menu.

**2** Press (OK) to close **DIGITAL SETTINGS** menu and open the **TV SETUP** menu.

DIGITAL SETTINGS

**TV SETUP**

Press OK for basic TV settings
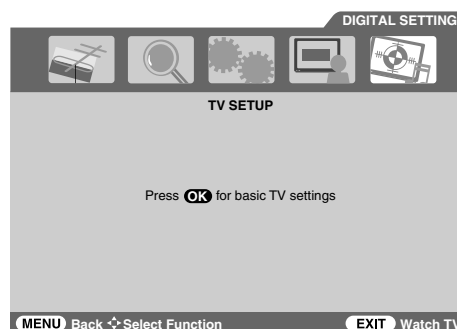
**MENU** Back ✧Select Function          **EXIT** Watch TV

# Back connections

## Connection example

**TV back view**



DVD video player
(with component video outputs)
or

Set Top Box

VCR (Normal)
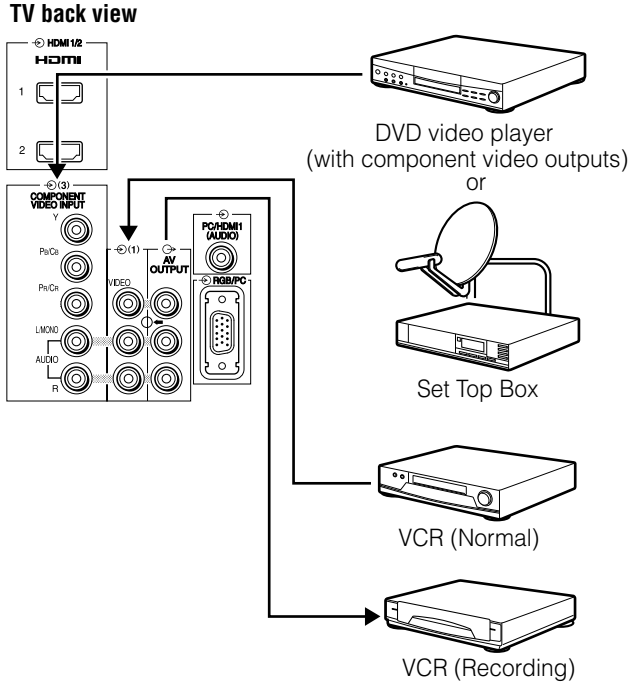
VCR (Recording)

- Before connecting any external equipment, turn off all main power switches.
- The unauthorized recording of television 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, $P_B$/$C_B$, $P_R$/$C_R$**) and provides the best picture performance. These terminals can only be used with the component video compatible equipment e.g. DVD video player, etc.
- Additional equipment and cables shown are not supplied with this TV.
- If you connect mono sound equipment to **AV OUTPUT**, connect the audio input of the equipment to the **L/MONO** jack on the TV.

## Connecting an audio system - digital only -

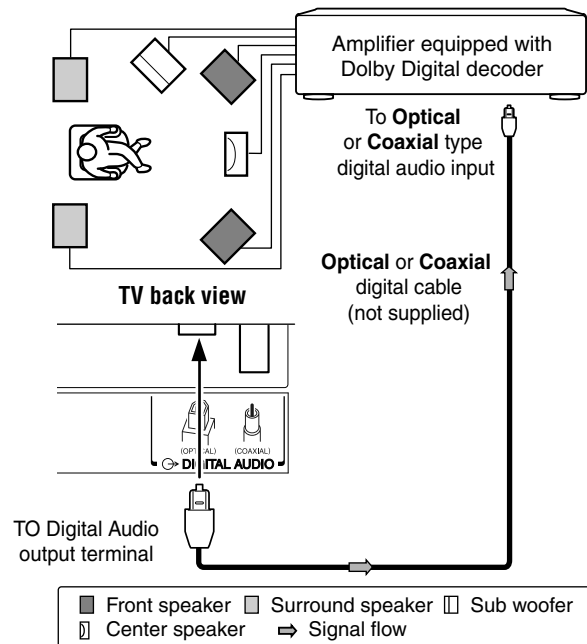You can enjoy high quality dynamic sound by connecting the TV to an audio system.

*Notes:*
- *DO NOT connect the **DIGITAL AUDIO** output terminal to the AC-3 RF input of a Dolby Digital Receiver with a built-in Dolby Digital decoder.*
- *Connect the **DIGITAL AUDIO** output terminal to the **OPTICAL** or **COAXIAL** 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 a sudden high volume sound.*
- *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 or MPEG decoding function, be sure to set **PCM** in Digital Output (☞ page 32). Otherwise, the speakers and your hearing may be damaged by a sudden high volume sound.*

## Connecting an amplifier equipped with a Dolby Digital decoder



Amplifier equipped with Dolby Digital decoder

To **Optical** or **Coaxial** type digital audio input

**Optical** or **Coaxial** digital cable (not supplied)

**TV back view**

TO Digital Audio output terminal

| ■ Front speaker | ▨ Surround speaker | ▯ Sub woofer |
| ▯ Center 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 **Bitstream** in Digital Output menu.

## Connecting an amplifier equipped with an MPEG decoder



Amplifier equipped with MPEG decoder

To **Optical** or **Coaxial** type digital audio input

**Optical** or **Coaxial** digital cable (not supplied)

**TV back view**

(OPTICAL) (COAXIAL)
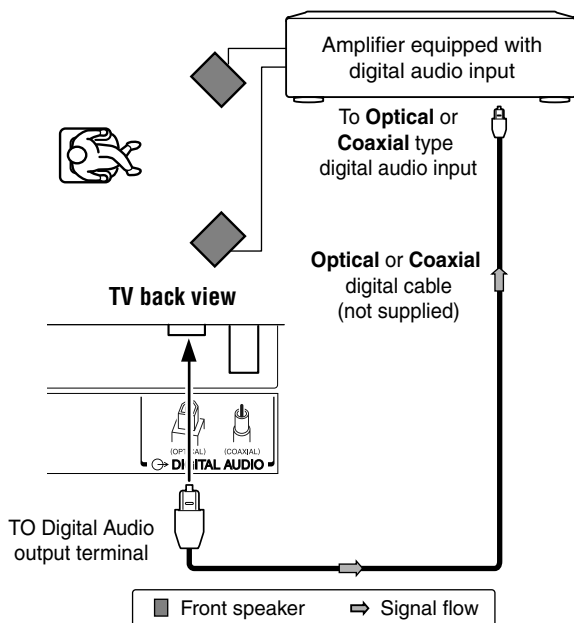↻ **DIGITAL AUDIO**

TO Digital Audio output terminal

■ Front speaker  ▨ Surround speaker  ▯ Sub woofer
◨ Center speaker  ⇨ Signal flow
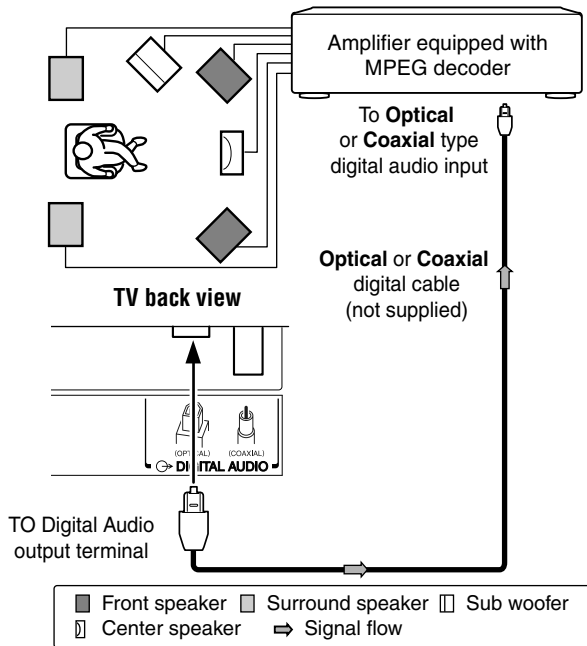
You can enjoy motion picture with dynamic realistic sound by connecting the TV to an amplifier equipped with an MPEG audio decoder or MPEG audio processor. When using this setup, select **Bitstream** in Digital Output menu.

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



Amplifier equipped with digital audio input

To **Optical** or **Coaxial** type digital audio input

**Optical** or **Coaxial** digital cable (not supplied)

**TV back view**

(OPTICAL) (COAXIAL)
↻ **DIGITAL AUDIO**

TO Digital Audio output terminal

■ Front speaker  ⇨ Signal flow

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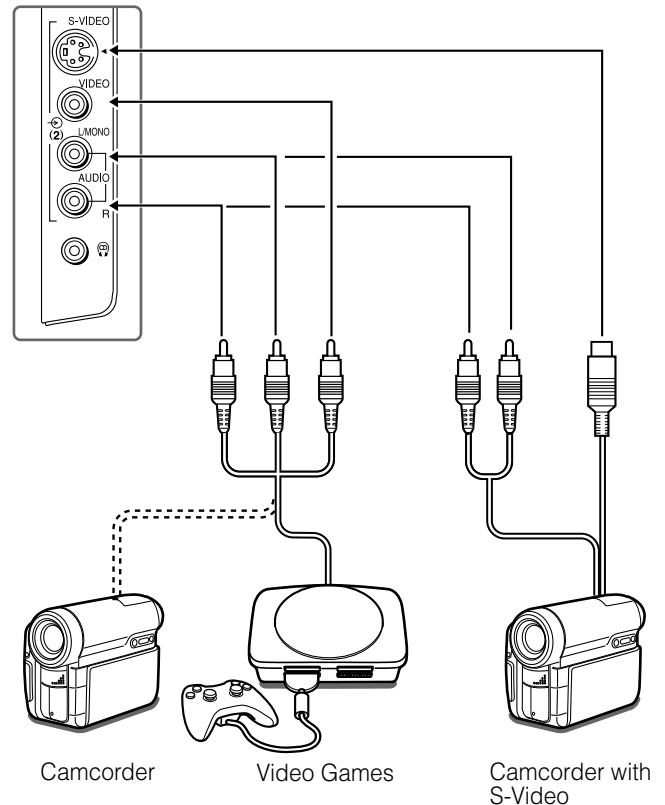
# Side connections

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

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

## Connection example

**TV right side view**



Camcorder          Video Games          Camcorder with S-Video

- To select the side inputs, press ↴ to display the video input mode list, then press ▽ or △ to select ↴**2** (☞ page 25), then press (OK).
- Before connecting any external equipment, turn off all main power switches.
- If you connect both of the **S-VIDEO** input terminal and **VIDEO** input terminal, the **S-VIDEO** signal will appear on the screen (display changes to ↴ 2S).
- If you connect mono sound equipment to ↴ **(2)**, connect the audio output of the equipment to the **L/MONO** jack on the TV.
- You can enjoy Video Games with this TV. However shooting games, where the player shoots at a target on the TV screen with a light gun, may not work because of the LCD Colour TV properties.

# Connecting an HDMI or a DVI device

- When turning on your electronic components, turn on the TV first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the TV.
- This TV may not be compatible with features and/or specifications that may be added in the future.
- This TV is only operable with L-PCM on 32/44. 1/48 kHz and 16/20/24 bits. If there is no sound when using HDMI, use the analog audio cables to connect the TV and the HDMI device, and select **Analog** in **HDMI1 audio** of the **AV connection** menu (☞ page 36).

## Connecting an HDMI or a DVI device

The HDMI input on your TV receives digital audio and uncompressed digital video from an HDMI device or 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 or DVD player with HDMI or DVI output).

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

- **HDMI**: High-Definition Multimedia Interface
- **DVI**: Digital Video Interface
- **HDCP**: High-bandwidth Digital Content Protection
- CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the TV.
- **E-EDID**: Enhanced-Extended Display Identification
- VGA: VESA 640 × 480 @ 60/72/75 Hz
  S-VGA: VESA 800 × 600 @ 60/72/75 Hz
  XGA: VESA 1024 × 768 @ 60/70/75 Hz
  W-XGA: VESA 1280 × 768 @ 60/75 Hz
  W-XGA: VESA 1360 × 768 @ 60 Hz
  S-XGA: VESA 1280 × 1024 @ 60/75 Hz
  However, these signal formats are converted to match the number of pixels of the LCD panel.
  Therefore, the TV may not display small text properly.
- **L-PCM**: Linear-Pulse Code Modulation

## Connecting an HDMI device

One HDMI cable (type A connector)

**TV right side view**   **TV back view**
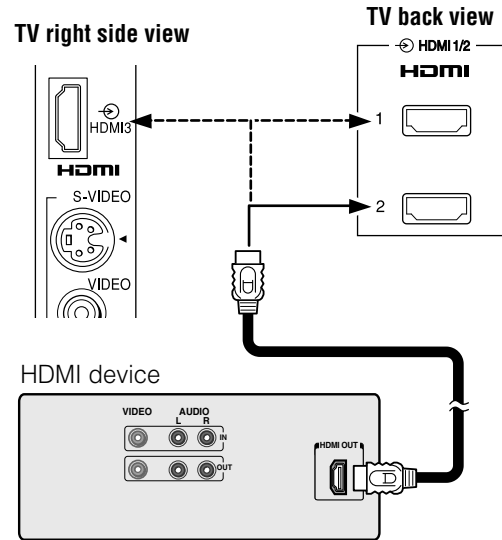


HDMI device

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

HDMI cable transfers both video and audio.

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

## Connecting a DVI device

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

**TV back view**

**TV back view**



DVI device
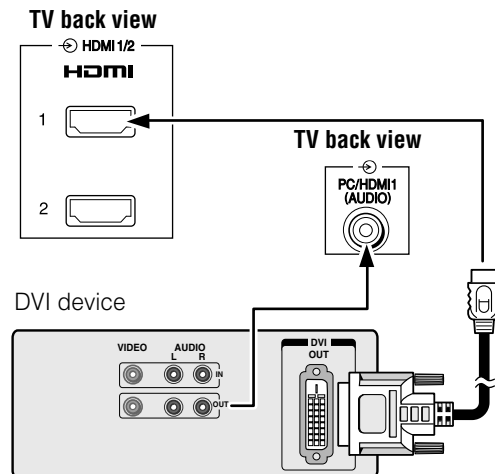
### HDMI (type A connector)-to-DVI adapter cable
For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 3m. The recommended length is 2m.

### Standard analog audio cables
An HDMI-to-DVI adapter cable transfers only video.

Separate analog audio cables are required.

### Note:
*HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.*

**35**

# Selecting the PC/HDMI1 audio mode

You can select PC audio or HDMI1 audio when using this function (☞ page 35).

**1** Press (MENU), then press ◁ or ▷ to display the **SET UP** menu.
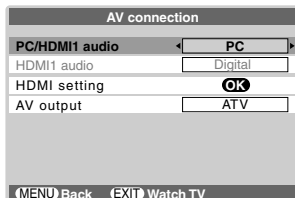
**2** Press ▽ or △ to select **AV connection**, then press (OK) to display the **AV connection** menu.

```
              AV connection
PC/HDMI1 audio     ◀        PC        ▶
HDMI1 audio                Digital
HDMI setting                 OK
AV output                    ATV


    (MENU) Back   (EXIT) Watch TV
```

**3** Press ▽ or △ to select **PC/HDMI1 audio**, then press ◁ or ▷ to select **PC** or **HDMI1**.
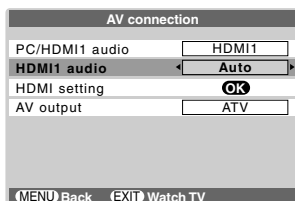
# Setting the HDMI1 audio mode

You can select sound of an HDMI or DVI device connected to the HDMI1 input terminals (☞ page 35) from three modes: **Auto**, **Digital** or **Analog**.

*Note:*
*This function is available only when the PC/HDMI1 audio mode is set to **HDMI1**.*

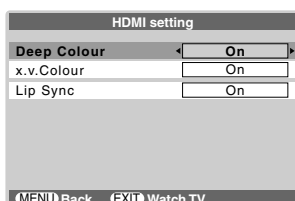**1** From the **AV connection** menu, press ▽ or △ to select **HDMI1 audio**.

```
              AV connection
PC/HDMI1 audio             HDMI1
HDMI1 audio        ◀        Auto       ▶
HDMI setting                 OK
AV output                    ATV


    (MENU) Back   (EXIT) Watch TV
```

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

## Selecting the HDMI setting

The HDMI setting menu consists of the following 3 items: **Deep Colour**, **x.v.Colour** and **Lip Sync**. Some early HDMI equipment may not work properly with your HDMI TV. If you experience trouble, unplug your HDMI cable first and then try setting these three options to **Off**. This should allow your early HDMI source to operate properly with your TV.

**1** From the **AV connection** menu, press ▽ or △ to select **HDMI setting**, then press (OK).

```
              HDMI setting
Deep Colour        ◀         On        ▶
x.v.Colour                   On
Lip Sync                     On



    (MENU) Back   (EXIT) Watch TV
```

**2** Press ▽ or △ to select each item, then press ◁ or ▷ to select the desired setting.

**Deep Colour mode**
This function increases the available colours from the HDMI source to increase the boundaries defined by the RGB or YCbCr colour space.

**x.v.Colour**
This function expands the acceptable colour range (limits) of HDMI signals, then allows sending the wider colour signals from HDMI sources.

**Lip Sync mode**
This option activates an auto audio/video display timing adjustment function that allows HDMI source devices to accurately perform synchronization automatically.

All above HDMI settings require a proper HDMI source device.

If HDMI source products do not support these functions, the TV may not work properly by activating these functions.

*Notes:*
* *In a non-HDMI signal mode, this function is not available.*
* *If your HDMI connection is capable of 1080p and/or your TV is capable of refresh rates greater than 60Hz or supports Deep Colour, you will need a Category2 cable. Conventional HDMI/DVI cables may not work properly with this mode.*

# Selecting the AV output mode

You can select the AV output from three modes; **ATV**, **DTV** or **Monitor**.

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

**2** Press ◁ or ▷ to select the desired output mode.
**ATV**: Selected programmed channel from Analog TV system is output from the **AV OUTPUT** terminal.
**DTV**: Selected programmed channel from Digital TV system is output from the **AV OUTPUT** terminal.
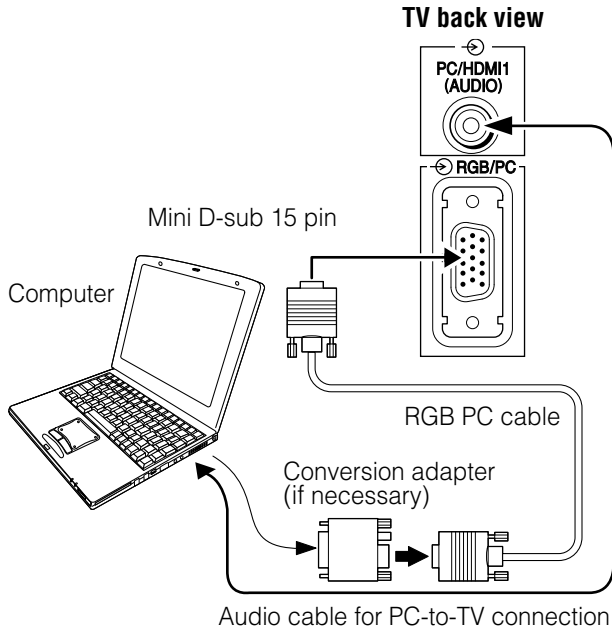**Monitor**: The AV output depends on the selected video input mode.
(e.g. If ⊕1 is selected (☞ page 25), the AV signal input to ⊕1 is output from the **AV OUTPUT** terminal.

*Note:*
*When it is set to **Monitor** (and in DTV mode) or **DTV**, and the digital programme is locked, the output will be blank and audio will be muted.*

# Connecting a computer

## To connect a PC to the RGB/PC terminal on the TV:
An analog RGB (15 pin) computer cable can be connected.

**TV back view**

Mini D-sub 15 pin

Computer

RGB PC cable

Conversion adapter
(if necessary)

Audio cable for PC-to-TV connection

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

## The following signals can be displayed:
For acceptable signal format, see page 35.

***Notes:***
- *Some PC models cannot be connected to this TV.*
- *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 Setting** 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.*
- *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
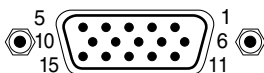
| Pin No. | Signal name | Pin No. | Signal name |
|---------|-------------|---------|-------------|
| 1 | R | 9 | NC |
| 2 | G | 10 | Ground |
| 3 | B | 11 | NC |
| 4 | NC (not connected) | 12 | NC |
| 5 | NC | 13 | H-sync |
| 6 | Ground | 14 | V-sync |
| 7 | Ground | 15 | NC |
| 8 | Ground | | |

## 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 analog audio cables.

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

**TV back view**

**TV back view**

Computer

Audio cable for PC-to-TV connection
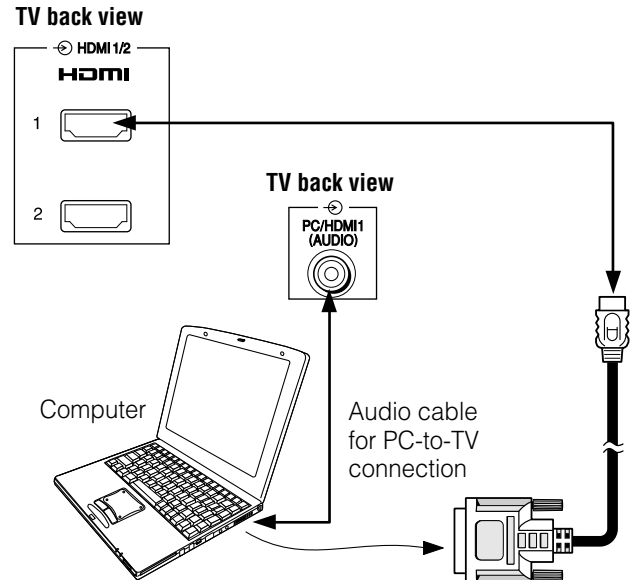
For acceptable signal format, see page 35.

***Notes:***
- *The edges of the images may be hidden.*
- *If receiving a 720p, 1080i, or 1080p signal programme, PC mode scales the video to display the entire picture within the borders of the screen (e.g. no overscanning) (☞ page 19).*
- *If connecting a certain PC model that signal is particular, the PC signal may not be detected correctly.*
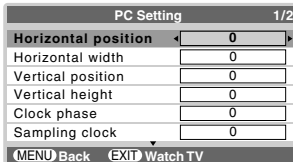
**37**

# Using the PC setting

- In the PC input mode, you cannot select the **3D colour management** and **Base colour adjustment** in the **PICTURE** menu and the **Colour**, **Tint**, **Sharpness**, **Black/White Level**, **MPEG NR** and **DNR** in the **Picture setting** menu and **Cinema mode** (☞ page 20).
- In the PC input mode, the **Manual setting** (☞ page 25) is not displayed.
- First press ⊕ to display the video input mode list, then press ▽ or △ and (OK) in order to select the PC input mode (☞ page 25).
- 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 size/position

**1** Press (MENU), then press ◁ or ▷ to display the **SET UP** menu.

**2** Press ▽ or △ to select **PC Setting**.

```
              SET UP
Language                    English
AV connection                 OK
PC Setting                    OK


MENU Back    EXIT Watch TV
```

**3** Press (OK) to display the **PC Setting** menu.

```
         PC Setting          1/2
Horizontal position  ◁    0    ▷
Horizontal width          0
Vertical position         0
Vertical height           0
Clock phase               0
Sampling clock            0
MENU Back    EXIT Watch TV
```

**4** Press ▽ or △ to select an option you want to adjust. Press ◁ or ▷ to adjust the settings as required.

```
Horizontal position                0
◄—————————|—————————+►
```

## 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 Setting** menu, press ▽ or △ to select **Clock phase**.

**2** Press ◁ or ▷ to obtain a clear picture.

```
Clock phase                         0
◄—————————|—————————+►
```

## Adjusting the sampling clock

If the sampling clock does not match with the dot clock frequency of the PC, 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 Setting** menu, press ▽ or △ to select **Sampling clock**.

**2** Press ◁ or ▷ to optimize the picture.

```
Sampling clock                      0
◄—————————|—————————+►
```

## Resetting the PC setting

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

**1** From the **PC Setting** menu, press ▽ or △ to select **Reset** on the 2nd page.

```
         PC Setting          2/2
                  ▲
Reset                       OK




MENU Back    EXIT Watch TV
```
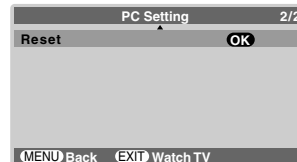
**2** Press (OK).

# REGZA-LINK connection

You can control the basic functions of connected audio/video devices using the TV's remote control if you connect a REGZA-LINK compatible audio receiver or playback device. For an explanation of setup and operations, see pages 26 – 27.



**TV back view**

**AV Amplifier**

**Playback device**

**Playback device**
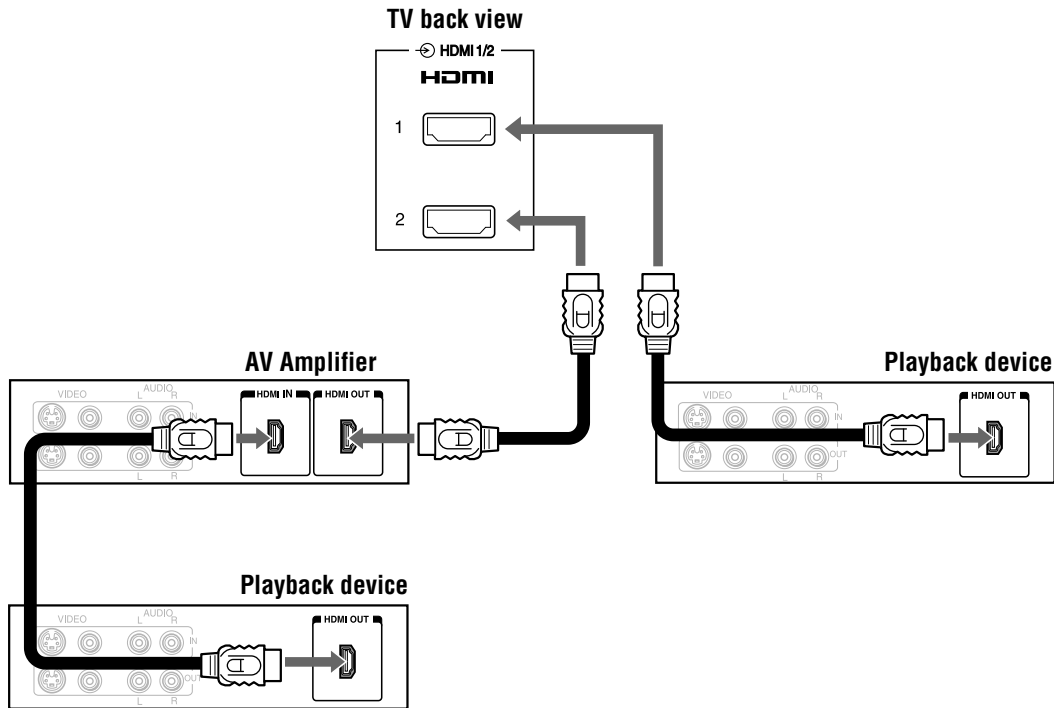
**Before controlling the device(s):**
- After completing the above connections, set the **REGZA-LINK** Setup menu as you desire (☞ page 26).
- The connected devices must also be set. For details, see the owner's manual for each device.

*Notes:*
- *If several devices are connected, REGZA-Link feature may not operate properly.*
- *The REGZA-LINK feature uses the CEC technology as regulated by the HDMI standard.*
- *For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (**HDMI**).*
- *This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to the individual owner's manuals for compatibility information.*

# 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, then press ⏻/| or ⏻.
- 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.

### 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 changed.

### Poor colour or no colour
- The station may have broadcast difficulties. Try another channel.
- Adjust the **Tint** and/or **Colour** in the **PICTURE** menu.

### The remote control does not operate
- Remove all obstructions between the remote control and the remote control sensor on the TV.
- The remote control batteries may be dead. Replace them with new ones.
- Check that the TV/REGZA-LINK/DVD switch on the remote control is properly set.

### Some pixels 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 and under, wait until the warms up.

### The brightness of the screen comes down, or flickers of the screen are caused, or some parts of the screen do not light up.
- When you just buy and start to use this TV, a flickering may be caused in the screen. In this case, switch off the TV, then switch on it again to cure the condition.
- The cold cathode fluorescent lamp used for the back light on this TV has longevity. When the brightness of the screen comes down, or the flickers of the screen are caused, or some parts of the screen do not light up, it may reach the end of its life. Contact a service technician.

### No REGZA-LINK operation
- The REGZA-LINK feature is available for Toshiba REGZA-LINK compatible devices.
- Make sure the HDMI cables with HDMI logo are used.
- When the connected REGZA-LINK device does not work correctly after you have changed setting of the device, turn off your TV and unplug the power cord, then plug and turn on again.
- If several devices are connected, REGZA-LINK feature may not operate properly.
- Read the owner's manual furnished with the connected REGZA-LINK device.

## Symptom and solution - digital only -

### Poor picture
- Check the aerial connections. Make sure it is aligned to the correct broadcast direction.
- Check the signal level and quality in the **Manual Scan** menu.
- If you use any kind of amplifier to boost the signal level, check whether it works well, and ask for help from the aerial installer.

### No picture
- Use the **Manual Scan** menu to rescan this channel.
- Try another channel.
- Reduce **RF** amplifier gain if connected to **RF** booster.

### No sound from DIGITAL AUDIO
- The sound may be muted. Press ⊿+, ⊿- or ⊗.
- Make sure the TV is adjusted to the correct **Audio Track**.
- Use the **Manual Scan** menu to rescan this channel.
- Try another channel.

### Not all channels are available after using the Auto Scan when tuning the TV for the first time.
- This symptom is caused by unexpected frequency offset.
- Using the **Manual Scan** menu to scan for the missing channels. Once the TV picks up the signal, all the transmission parameters will be stored in the internal memory.

### Cannot lock signal by using Manual Scan
- Check the frequency that you have entered is exactly the Middle frequency of the wanted channel.
- Refer to the solutions for "Poor picture".

### No Teletext, no Subtitle
- Make sure the channel that you are watching carries Teletext/Subtitle information from **I-Plate**.

### Cannot receive channels after moving the TV between cities (e.g. from Melbourne to Sydney)
- Refer to page 12 to reset data.

**Weak signal appears on one channel but not the other, but these channels have the same logical number**

- Please make sure that you do not keep duplicate channels (i.e. channels with the same logical channel number but different physical numbers, see page 14). If you do, please delete the duplicate ones and keep only one channel with the best signal strength.

**Programme Timer and/or Alarm do not operate properly.**

- Check the aerial connections.
- Weak signal may cause inaccurate time information.

**Forget Password**

- Please contact to the local dealer.

# APPENDIX

## AUSTRALIAN PARENTAL GUIDANCE CODES (Normative)

Recommended On-Screen-Display for parental guidance codes transmitted within DVB-SI EIT information using the DVB parental_rating_descriptor.

| Transmitted rating hex code | Australian parental guide code | On-Screen-Display | Receiver Menu Set-up and Suggested OSD wording for Setting Blocking (Restriction of access) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Block All | Block G and above (optional) | Block PG and above | Block M and above | Block MA and above | Block AV and above | Block R and above | No Block |
| | | | Resultant receiver action to received hex code ✔ is show programme - ✗ is block until PIN entered | | | | | | | |
| **0 × 00** | Not Classified | – | ✗ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 0 × 01 | | – | ✗ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| **0 × 02** | **P** Pre school | **P** | ✗ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 0 × 03 | | P | ✗ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| **0 × 04** | **C** Children's | **C** | ✗ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 0 × 05 | | C | ✗ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| **0 × 06** | **G** General | **G** | ✗ | ✗ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 0 × 07 | | G | ✗ | ✗ | ✔ | ✔ | ✔ | ✔ | ✔ | ✔ |
| **0 × 08** | **PG** Parental Guidance Recommended | **PG** | ✗ | ✗ | ✗ | ✔ | ✔ | ✔ | ✔ | ✔ |
| 0 × 09 | | PG | ✗ | ✗ | ✗ | ✔ | ✔ | ✔ | ✔ | ✔ |
| **0 × 0A** | **M** Mature Audience 15+ | **M** | ✗ | ✗ | ✗ | ✗ | ✔ | ✔ | ✔ | ✔ |
| 0 × 0B | | M | ✗ | ✗ | ✗ | ✗ | ✔ | ✔ | ✔ | ✔ |
| **0 × 0C** | **MA** Mature Adult Audience 15+ | **MA** | ✗ | ✗ | ✗ | ✗ | ✗ | ✔ | ✔ | ✔ |
| 0 × 0D | | MA | ✗ | ✗ | ✗ | ✗ | ✗ | ✔ | ✔ | ✔ |
| **0 × 0E** | **AV** Adult Audience, Strong violence 15+ | **AV** | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✔ | ✔ |
| **0 × 0F** | **R** Restricted 18+ | **R** | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✗ | ✔ |

# 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 | 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, 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 |
|---|---|---|
| Argentina, Paraguay, Uruguay, etc. | PAL | N |
| 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 television equipment.*

# Specifications

## Integrated Digital LCD TV

*Model*

37XV500A, 42XV500A, 46XV500A

*Power source*

220 V-240 V AC, 50 Hz

*Power consumption*

37XV500A: xxx W, x.x W (standby)
42XV500A: 233 W, 0.9 W (standby)
46XV500A: 294 W, 0.9 W (standby)

*Dimensions*

37XV500A: 902 mm (W) 632 mm (H) 247 mm (D)
42XV500A: 1,009 mm (W) 689 mm (H) 262 mm (D)
46XV500A: 1,108 mm (W) 746 mm (H) 307 mm (D)

*Mass (Weight)*

37XV500A: xx.x kg
42XV500A: xx.x kg
46XV500A: xx.x kg

*Analog TV system (Aerial input)*

Channel coverage:

| | | | | |
|---|---|---|---|---|
| PAL | B/G | (CCIR) | VHF | 2 - 12 |
| | | | UHF | 21 - 69 |
| | | | CATV | X - Z+2, S1 - S41 |
| PAL | I | (UK) | VHF | - |
| | | | UHF | 21 - 69 |
| | | | CATV | - |
| PAL | D/K | (CHINA) | VHF | 1 - 12 |
| | | | UHF | 13 - 57 |
| | | | CATV | Z1 - Z38 |
| SECAM | B/G | (CCIR) | VHF | 2 - 12 |
| | | | UHF | 21 - 69 |
| | | | CATV | X - Z+2, S1 - S41 |
| SECAM | D/K | (OIRT) | VHF | 1 - 12 |
| | | | UHF | 21 - 69 |
| | | | CATV | X1 - X19 |
| NTSC | M | (US) | VHF | 2 - 13 |
| | | | UHF | 14 - 69 |
| | | | CATV | A6 - A1, A - W, AA - ZZ, AAA, BBB |
| NTSC | M | (JAPAN) | VHF | 1 - 12 |
| | | | UHF | 13 - 62 |
| | | | CATV | M1 - M10, S1 - S41 |

Special RF signal:

NTSC 4.43 colour system 5.5/6.0/6.5 MHz sound system
PAL 60 Hz colour system 5.5/6.0/6.5 MHz sound system

*Digital TV System*

| | |
|---|---|
| Compliant Standard | DVB-T |
| Video Decoding | MP @ ML & MP @ HL |
| Audio Decoding | Dolby® Digital, MPEG (I & II) |
| Audio Sampling Rate | 32, 44.1, 48 kHz |

*Digital TV Terrestrial Tuner / Demodulator*

| | |
|---|---|
| Frequency | 51~858 MHz |
| Loop Through | 51~858 MHz |
| Bandwidth | 6, 7, 8 MHz |
| Demodulator | COFDM |
| FFT Mode | 2K, 8K |
| Constellation | QPSK, 16QAM, 64 QAM |
| Guard Interval | 1/4, 1/8, 1/16, 1/32 |
| Inner Coding Rate | 1/2, 2/3, 3/4, 5/6, 7/8 |

*COMPONENT VIDEO INPUT terminals (the signal format)*

480i, 480p, 576i, 576p, 720p (50/60 Hz), 1080i (50/60 Hz) (These signal formats are converted to match the number of pixels of the LCD panel.)

**Colour system (analog TV system)**

PAL, SECAM, NTSC 3.58/4.43

**Aspect ratio**

16 : 9

**Visible size (diagonal)**

37XV500A: 94.0 cm
42XV500A: 106.7 cm
46XV500A: 116.8 cm

**Number of pixels**

1,920 (H) dots × 1,080 (V) dots

**Audio power**

10 W + 10 W (10 % THD)

**Speakers**

Main: 100 mm (Diameter) 2 pcs.

**Input/Output terminals**

| | | |
|---|---|---|
| (1) | Input | |
| | Phono jacks | A/V |
| (2) | Input | |
| | 4 pin | S-video |
| | Phono jacks | A/V |
| (3) | Input | |
| | Component video | Y, $P_B$/$C_B$, $P_R$/$C_R$ |
| | Phono jacks | Audio L/Mono+R |
| AV OUTPUT | Output | |
| | Phono jacks | A/V |
| RGB/PC | Input | |
| | Mini D-sub 15 pin Analog RGB | |
| PC/HDMI1 (AUDIO) | Input | |
| | 3.5 mm (Diameter) stereo | Audio L+R |
| HDMI1 | Input (type A) | |
| | 19 pin | A/V Digital |
| HDMI2 | Input (type A) | |
| | 19 pin | A/V Digital |
| HDMI3 | Input (type A) | |
| | 19 pin | A/V Digital |
| | (v.1.3a with Lip Sync, Deep Colour and x.v.Colour) | |
| Digital Audio (optical + coaxial) | Output Bitstream/PCM | |
| Headphone jack | 3.5 mm (Diameter) stereo | |

**Operating condition**

Temperature  0 °C - 35 °C
Humidity    20 % - 80 % (No moisture condensation)

**Supplied accessories**

Owner's manual (1), Remote control (1), Batteries (2), Clip (1)

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

- Design and specifications are subject to change without notice.
- Never service or remodel the TV by yourself. It may expose you to a fire hazard or dangerous voltages.

**TOSHIBA CORPORATION**