

HITACHI
Inspire the Next

LED LCD TV
User Manual



LE42EC05AU
LE46EC05AU

Thank you for purchasing this HITACHI product.
To obtain the best performance and safety, please read this manual carefully.
Please keep this manual for future reference.

Thank you for purchasing this HITACHI LED LCD TV.

The instructions in this manual are described mainly with the remote control. You can also use the buttons on the TV if they have the same names as those on the remote control. To obtain the best performance and safety, please read this manual carefully. Please keep this manual for future reference.

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Trademark Information

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

Important Safety Instructions

■ Read Instructions

All the safety and operating instructions should be read before the product is operated.

■ Retain Instructions

The safety and operating instructions should be retained for future reference.

■ Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

■ Follow Instructions

All operating and use instructions should be followed.

■ Cleaning

Unplug the product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.

■ Attachments

Only use attachments/accessories specified by the manufacturer.

■ Water and Moisture

Do not use the product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.

■ Accessories

Do not place the product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. The product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

■ Ventilation

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. The product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

■ Power Sources

The product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.

■ Power Cord Protection

Power cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

■ Lightning

For added protection for the product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

■ Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

■ Overloading

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

■ Object and Liquid Entry

Never push objects of any kind into the product through any openings as they may touch dangerous voltage points or short-out parts that can result in a fire or electric shock. Never spill liquid of any kind on the product.

■ Servicing

Do not attempt to service the product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

■ Repairing

Unplug the product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.

Important Safety Instructions

- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a service technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance this indicates a need for service.

■ Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

■ Safety Check

Upon completion of any service or repairs to the product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

■ Heat

Do not install the product near any heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

■ Installation Location

Place the product on a firm and flat surface. Avoid placing the product in areas of direct sunlight, heating radiators, closed automobiles, high temperature, high humidity, excessive dust, strong vibration, impact or strong magnetic fields, as the internal parts may be seriously damaged.

■ Hazards of Electrical Shock and Fire

Do not touch the power cord with wet hands. Hold the plug when disconnecting the power cord. Do not pull the power cord. Unplug the power cord from the wall socket outlet when the product is not used for long periods of time.

■ Hearing Safety

Listen at a moderate volume. Using headphones at high volume can impair your hearing.

■ Handling the product

Be careful when handling the product. Do not drop, hit any objects or scratch the frame or stand. These actions may damage the frame and stand.

WARNING



- The appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Young children should be supervised to ensure they do not play with the appliance.


CAUTION



- Do not let your child's finger get caught in the gap between the TV stand and the table surface. It may cause injury to the child's finger.

Cleaning and Maintenance

CAUTION

-  • Disconnect the power plug from the wall socket outlet before cleaning the product.

■ Cleaning the TV Panel

Wipe the TV panel with a dry lint-free cloth in order to prevent damage to the panel surface. In case of greasy dirt, wipe gently with a lint-free cloth slightly moistened with water.



- Do not use a chemical cloth or spray cleaner. It may cause discolouration and damage to the panel surface.
- Do not use a dusty or hard cloth and rub the screen hard. It may cause scratches on the panel surface.

■ Cleaning the Cabinet

Wipe the cabinet with a lint-free cloth. In case of heavy dirt, wipe with a soft cloth slightly moistened with water.



- Do not use a dusty cloth and rub the cabinet surface. It may cause scratches on the cabinet surface.
- Do not use chemicals such as benzene, thinner or other chemical products. Do not spray volatile solutions such as insecticide over the cabinet. Using these chemicals may result in cabinet material degradation or coating removal.
- Do not leave the cabinet in prolonged contact with plastic or rubber materials. It may cause cabinet material degradation or coating removal.

Common Phenomena of the TV Panel

The followings are the common phenomena when operating the TV panel. This is a structural property of the TV panel that is adapted to the industry standards and will have no impact on the performance of the product.

■ Defective Spots on TV Panel

The TV panel is manufactured with high-precision technology. It consists of large number of pixels. However, some of them may appear constantly on the screen as black spots, brilliant spots of light (red, green or blue) and/or illuminated spots (pixel of white colour).

■ Residual Image

When a still image or On Screen Display menu is displayed on the screen for a short time (about a minute) and then switched to another image, it may leave an “after-image” on the screen. The residual image will disappear on its own.

■ Surface on TV Panel

The TV panel is made with fine processing glass. Therefore do not impact strongly on the panel surface as this may cause damage to it.

■ The Usage Under Low Temperature Environment

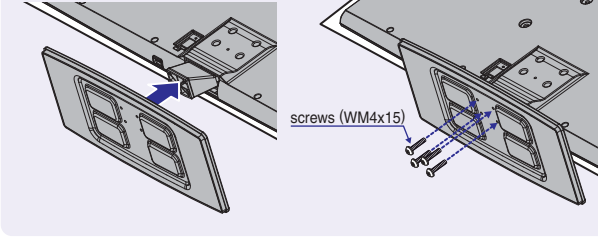
Due to the structural characteristics of the TV panel, the response speed of the TV panel becomes slower when the ambient temperature around the panel becomes too low. In some cases, it may cause the residual image. The residual image will disappear on its own as the temperature goes up and back to normal.

Preparation

Attach the TV Stand

■ For model LE42EC05AU only

- 1 Carefully place the TV with its front side facing down on a cushioned flat surface.
- 2 Attach the TV stand to the TV as shown.
- 3 Tighten the supplied screws to fix the TV stand securely in place.



CAUTION

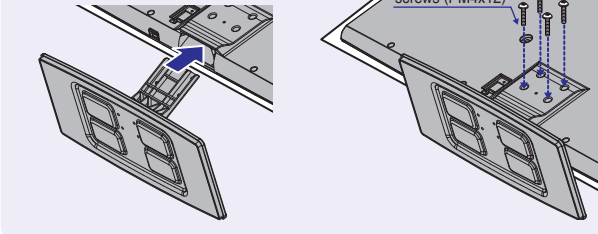
- ⚠ The TV stand may not be fixed in place after repeatedly tightening and loosening the screws.

WARNING

- ⚠ During assembling and disassembling the TV stand, please use your hand to support it. Failure to do so may cause the TV stand to fall and result in personal injury.
- After installing the TV stand, please ensure that the screws are tightened firmly. Failure to do so may cause the TV set to tip over or become damage.

■ For model LE46EC05AU only

- 1 Carefully place the TV with its front side facing down on a cushioned flat surface.
- 2 Insert the TV stand to the TV as shown.
- 3 Tighten the supplied screws to fix the TV stand securely in place.

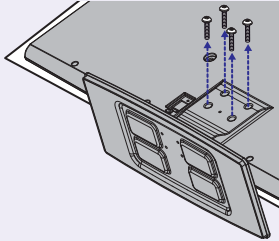


Detach the TV Stand for Wall Mount

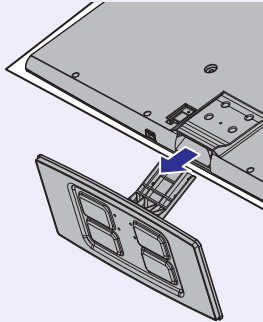
Before mounting the TV on the wall, the TV stand must be removed.

1 Carefully place the TV with its front side facing down on a cushioned flat surface.

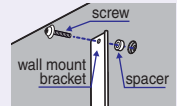
2 Unscrew and remove the screws as shown.



3 Slide out the TV stand as shown.



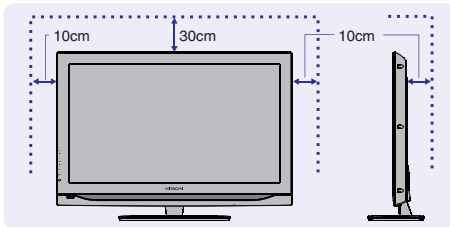
- The illustration used here is based on model LE46EC05AU. There may be a slight difference in the illustration, if you are using model LE42EC05AU.
- Fasten the wall mount bracket to the TV using the supplied spacers and screws.



- For wall mount bracket installation, refer to the wall mount bracket installation guide.

Position the TV Set

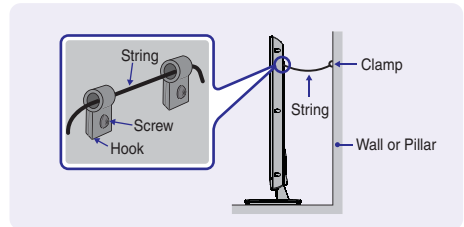
Place the TV on a firm and flat surface, leaving a space of at least 10cm around the TV set and 30cm from the top of the TV set to the wall or cabinet.



- Place the TV set where it cannot be pulled, pushed or knocked over.

Secure the TV Set

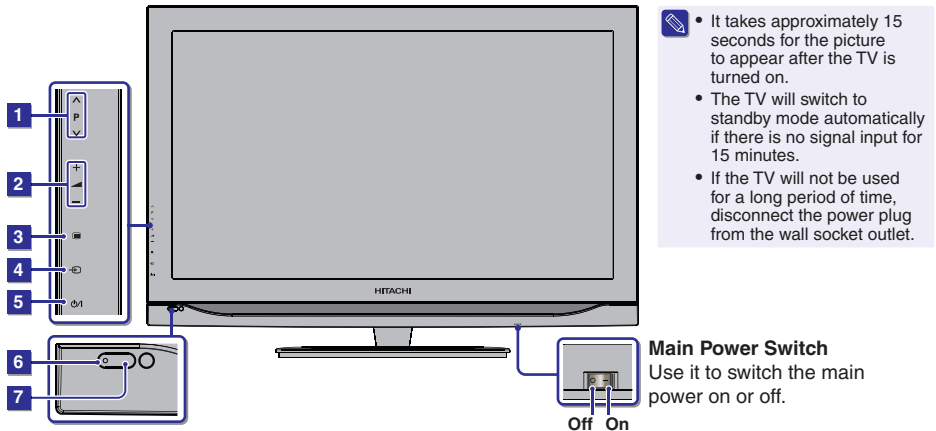
It is recommended to install the TV on a stable place and implement safety measure against overturning. Use a commercially available string and secure the TV to a wall or pillar.



- The clamp, string and hooks are not supplied.

Functional Overview

Front Panel



1 Channel Up/Down (P[^] / P^v)

- Works as Up/Down cursor on TV menu.

2 Volume Up/Down (\uparrow / \downarrow)

- Works as Left/Right cursor on TV menu.

3 Menu ()

4 Input Select ()

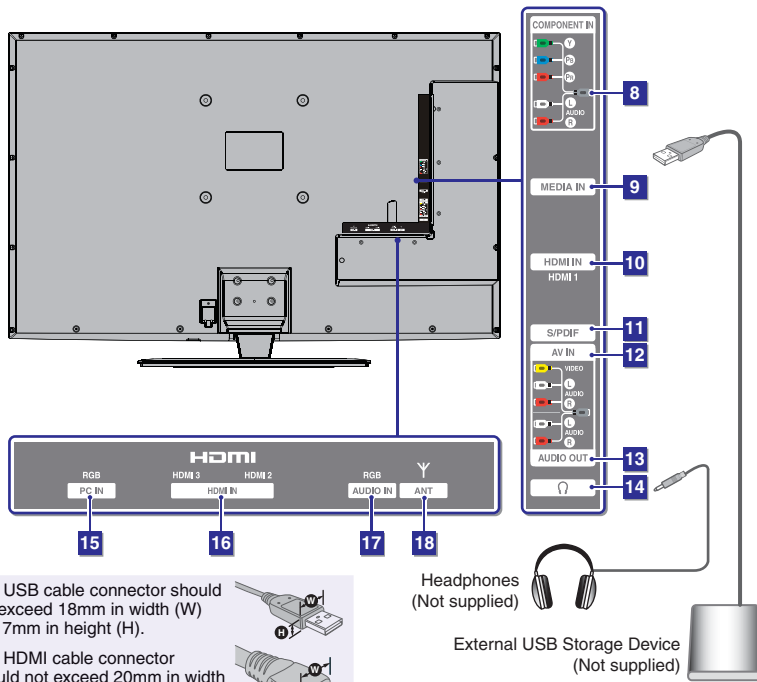
5 Power On/Standby ( / |)

6 Power/Standby Indicator

- Standby Mode - RED
- Power On - BLUE

7 Remote Control Sensor

Rear Panel



- The USB cable connector should not exceed 18mm in width (W) and 7mm in height (H).
- The HDMI cable connector should not exceed 20mm in width (W) and 10mm in height (H).

Headphones
(Not supplied)

External USB Storage Device
(Not supplied)

8 Component Input Terminal

14 Headphones Jack

9 Media (USB) Input Terminal

15 RGB (PC) Input Terminal

10 HDMI 1 Input Terminal

16 HDMI 2 / HDMI 3 Input Terminal

11 S/PDIF Output Terminal

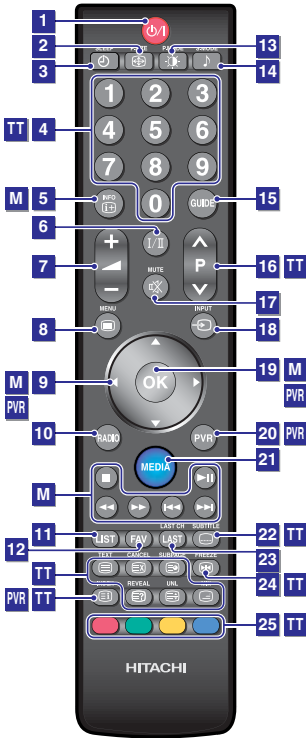
17 RGB Audio Input Terminal

12 AV Input Terminal

18 Antenna Input Terminal

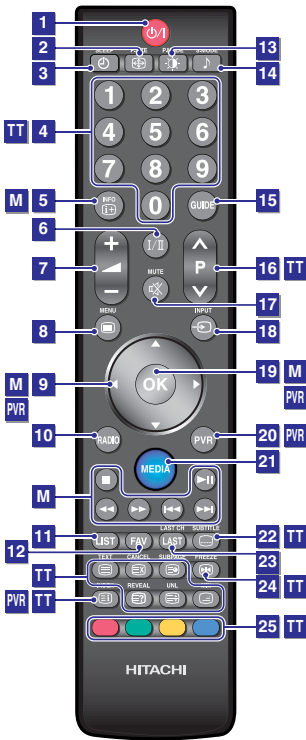
13 Audio Output Terminal

Remote Control



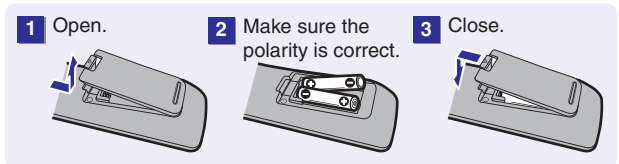
Button	Description												
TT 1	Teletext Buttons These buttons are to be used in Teletext operation. (☞ page 33)												
M 2	Media Buttons These buttons are to be used in Media operation. (☞ page 27 - 32)												
PVR 3	PVR Buttons These buttons are to be used in PVR operation. (☞ page 18 - 19)												
1	Power On / Standby (⏻/⏿) Press to switch the TV on or off to standby mode.												
2	Picture Size (⊕) Press to select the picture size.												
3	Sleep Timer (⌚) Press to set the length of time to switch the TV off to standby mode. <ul style="list-style-type: none"> To cancel, press ⏻ repeatedly until "Off" appears. To display the remaining time, press ⌚ once. If you switch off the TV and switch it on again, Sleep Timer is set to "Off" 												
4	Number (0 - 9) Press to select the TV channel directly.												
5	Info (i+) Press to display the information banner.												
6	Ch I/II (I/II) Press to select the audio language in DTV mode. Press to select the sound output for a stereo/bilingual broadcast in TV mode.												
<table border="1"> <thead> <tr> <th>Broadcasting</th> <th>Selection</th> </tr> </thead> <tbody> <tr> <td>NICAM Mono</td> <td>NICAM-Mono ↔ Mono</td> </tr> <tr> <td>Stereo</td> <td>NICAM-Stereo ↔ Mono</td> </tr> <tr> <td>Bilingual</td> <td>NICAM-Main ↔ NICAM-Sub ↔ Mono ↔</td> </tr> <tr> <td>A2 Stereo</td> <td>A2-Stereo ↔ Mono</td> </tr> <tr> <td>Bilingual</td> <td>A2-Main ↔ A2-Sub</td> </tr> </tbody> </table> <ul style="list-style-type: none"> The selection may vary depending on the broadcasting. Select "Mono" in case of poor reception, noise or poor stereo sound due to signal condition. 		Broadcasting	Selection	NICAM Mono	NICAM-Mono ↔ Mono	Stereo	NICAM-Stereo ↔ Mono	Bilingual	NICAM-Main ↔ NICAM-Sub ↔ Mono ↔	A2 Stereo	A2-Stereo ↔ Mono	Bilingual	A2-Main ↔ A2-Sub
Broadcasting	Selection												
NICAM Mono	NICAM-Mono ↔ Mono												
Stereo	NICAM-Stereo ↔ Mono												
Bilingual	NICAM-Main ↔ NICAM-Sub ↔ Mono ↔												
A2 Stereo	A2-Stereo ↔ Mono												
Bilingual	A2-Main ↔ A2-Sub												
7	Volume Up/Down (+/-) Press to adjust the volume.												
8	Menu (■) Press to enter or exit from the TV menu.												
9	Up/Down/Left/Right (▲/▼/◀/▶) Press to select or adjust the desired item on the TV menu.												
10	RADIO Press to switch to radio mode. Press again to exit. (DTV mode only)												
11	List (LIST) Press to display the list of channels.												

Remote Control (continue)



Button	Description
12 Favourite Channel (FAV)	Press to display the favourite channel list.
13 Picture Mode ()	Press to select the picture mode.
14 Sound Mode ()	Press to select the sound mode.
15 EPG (GUIDE)	Press to display Programme Guide in DTV mode.
16 Channel Up / Down (P [^] / P ^v)	Press to select next/previous channel.
17 Mute ()	Press to mute the sound. Press again to cancel.
18 Input Select ()	Press to select the input source.
19 OK (OK)	Press to confirm and execute the selection.
20 PVR	Press to start PVR recording.
21 MEDIA	Press to access MEDIA mode directly.
22 Subtitle ()	Press to turn on the subtitle. Press again to cancel.
23 Last Channel (LAST CH)	Press to return to previously viewed channel.
	• "Last Channel" is only available in TV and DTV mode.
24 Freeze ()	Press to freeze the picture. Press again to cancel.
25 Colour buttons	Press to execute the prompt function in DTV mode.

■ Insert Batteries





Connection

Connecting Antenna Cable

Connect the 75 ohm coaxial cable (commercially available) to the antenna input terminal.

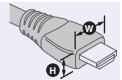
- To obtain better picture quality, use an outdoor antenna.
- If your outdoor antenna uses 75 ohm coaxial cable with an F-type connector, connect it directly to the antenna input terminal at the rear panel.
- If your outdoor antenna uses flat cable, connect it with a 75 ohm adapter (commercially available) and then to the antenna input terminal at the rear panel.

Connecting External Equipment

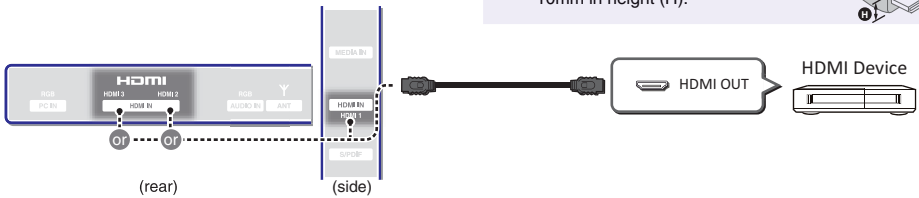
You can select the appropriate connection depending on the equipment that you are connecting and the level of picture quality you are trying to achieve. To view external source images, press  to select input source. ( page 14)

- Please refer to the user manual of the external equipment for more information on the connection to the TV.
- Please disconnect all of the power supplies to the external equipment and TV before connection.

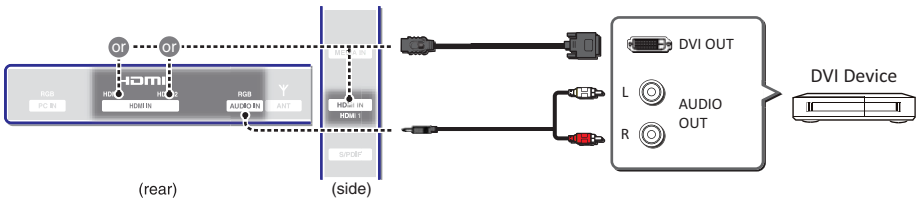
- The HDMI cable connector should not exceed 20mm in width (W) and 10mm in height (H).



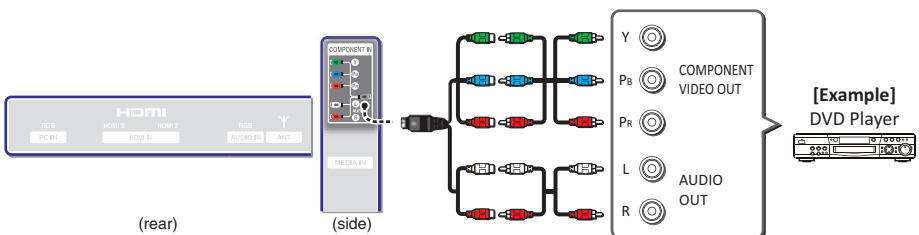
■ To use HDMI terminal



If the external equipment has DVI output, you can connect it to the HDMI terminal using a HDMI-DVI cable. In case of using the HDMI-DVI cable, connect analogue audio signal to RGB audio input terminal.

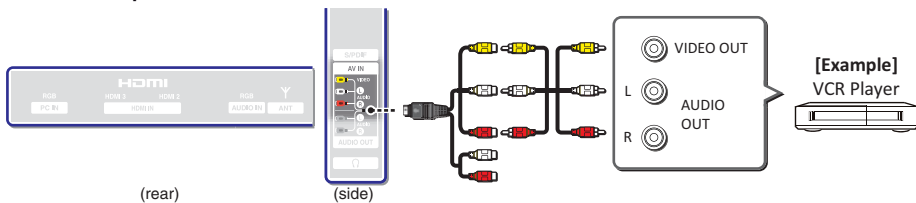


■ To use Component Video terminal

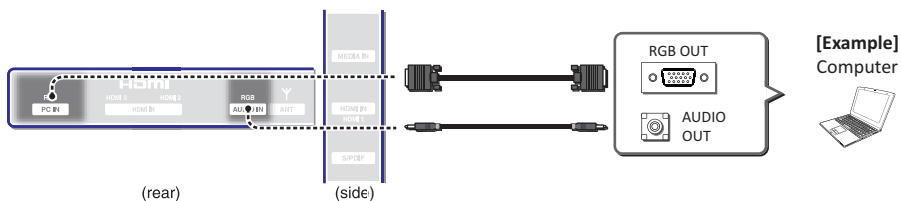


Connecting External Equipment (continue)

■ To use Composite Video terminal

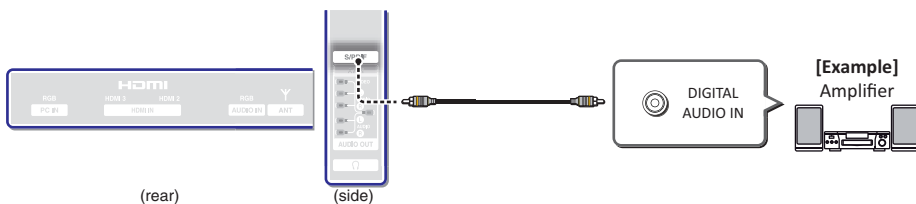


■ To use PC terminal

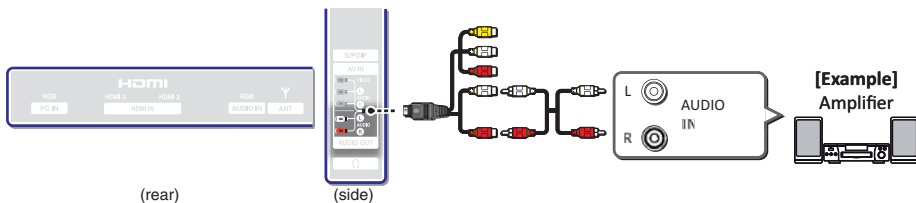


• You can also connect a PC with DVI or HDMI output to this TV.

■ To use S/PDIF terminal



■ To use Audio Out terminal




• Sound output is only available in TV and DTV mode.


Basic Operation


Power On/Off

To switch on the TV

- 1 Press the main power switch located on the underside of the TV.
 - The power indicator lights in red, indicating that the TV is in standby mode.
- 2 Press /I.
 - The power indicator lights in blue and the TV switches on.




To switch off the TV

- 1 Press /I.
 - The power indicator lights in red and the TV switches off to standby mode.
- 2 Press the main power switch located on the underside of the TV to completely power off the TV.

-  It takes approximately 15 seconds for the picture to appear after the TV is turned on.
- The TV will switch to standby mode automatically if there is no signal input for 15 minutes.
- If the TV will not be used for a long period of time, unplug the TV from the wall socket outlet.



Input Source Selection

To select input source




- 1 Press .
- 2 Press /  to select the desired input source (DTV, TV, AV, COMPONENT, HDMI1, HDMI2, HDMI3, RGB, MEDIA).
- 3 Press **OK** to set your selection.



Volume Adjustment

To change the volume












- 1 Press  to increase the sound volume.
- 2 Press  to decrease the sound volume.


To mute the sound

- 1 Press  to temporarily turn off the sound.
- 2 Press  or  to restore the sound to previous level.

-  You can decrease the sound volume by pressing  while the sound is muted.

On-Screen Display (OSD) Selection and Adjustment

- 1 Press  to display the main menu.
- 2 Press /  to select a menu.
 - The selected menu page displays.
- 3 Press /  or **OK** to set your selection.
- 4 Press /  to choose an item on the menu page.
- 5 Press /  to adjust an item value or choose options.
- 6 Press  to return to the previous menu screen, or press  repeatedly to exit the menu.


-  The OSD menu screen will be closed automatically when no operation has been made for a certain time.

Channel Selection

You can select channels in the following ways:

Using Channel Up/Down

- 1 Press **P[^] / P^v** to select the next or previous channel.



 • The skipped channels cannot be selected by **P[^] / P^v** button.

Using Channel List

- 1 Press **LIST** to display the Channel List.
- 2 Press **▲ / ▼** to select the channel and press **OK**.


Using Favourite Channel List

- 1 Press **FAV** to display the Favourite Channel List.
- 2 Press **▲ / ▼** to select the channel and press **OK**.

 •  page 23 to create list of favourite channels.


Using Number Buttons

- 1 Enter the channel number by using the **Number** buttons and press **OK**.

 • The channel is switched if the channel number is valid.

Using Last Channel

- 1 Press **LAST CH** to switch to the previous selected channel.
- 2 Press **LAST CH** again to switch back to the current viewing channel.

 • **LAST CH** will not work if no channel has been changed after the TV is turned on.

Information Banner


The information banner displays brief programme information about the current programme. Each time a channel is changed, the information appears at the bottom of the screen.

To display information banner

- 1 Press **ⓘ** to display the information banner.

In DTV mode, the information banner may contain:

- Channel number and name
- Current time
- Current programme name, start time and end time
- Signal resolution
- Programme information (if available)

 • Not all channels broadcast all programme information data. Some channels do not provide programme name and details. In such case, only channel name is displayed.

Subtitle Selection

Some programmes are broadcast with subtitle languages. You can select the desired subtitle language.

To select subtitle language

- 1 Press **⋮** to display the Subtitle Languages list.
- 2 Press **▲ / ▼** to select the desired subtitle language and press **OK**.

Electronic Programme Guide (EPG)

An EPG is an on-screen guide of current and future programmes. It also allows you to view programme information, set recorder and set reminders.

- 1 Press **GUIDE** to display the PROGRAMME GUIDE screen.

Current Date and Time

Press ▲/▼ to select the top bar and press ◀/▶ to change the display by channel.

Current Channel Name and Programme Name

[Display by time]

Current Channel Number and Name

Press ▲/▼ to select the top bar and press ◀/▶ to select the date, or press ◀/▶ repeatedly to select "TIME" to change the display by time.

Current Programme Name

[Display by channel]

The following remote control buttons will enable you to use the EPG functions.

Button	Action
GUIDE	Press to display or exit PROGRAMME GUIDE screen.
RED	Press to set recorder.
GREEN	Press to display information on the selected programme.
YELLOW	Press to display schedule list.
BLUE	Press to set reminder.
◀/▲/▼/▶	Press to select the item in the list.

- The EPG will only be available when you are receiving digital broadcasting signals.

Schedule Recorder

You can schedule a recording of future programmes using PROGRAMME GUIDE.

- 1 Press **GUIDE** to display the PROGRAMME GUIDE screen.

- 2 Select the programme to be recorded.

- 3 Press the **RED** button.

- A Recorder menu will be shown with the correct time, channel and duration. It also provides the following setting options.

Start Time	Set the time and date to start recording.
End Time	Set the time and date to end recording.
Mode	Select a mode for recording at the same time.

- 4 Press ▲/▼ to choose an item and ◀/▶ to change the setting.

- 5 Press **OK** to enter the programme to the Schedule List.

- An updated Schedule List will be shown.


- **"Timer Overlay"** appears on the screen if the current scheduled recording is overlapped with the previous scheduled recording.
- **"Time Past"** appears on the screen if the start time has already past.
- Programme highlighted in yellow indicates a recording is scheduled for that programme.

Schedule Reminder

You can set reminders for your favourite programmes. The channel will be switched to the selected programme at the schedule time if you are watching another programme.


- 1** Press **GUIDE** to display the PROGRAMME GUIDE screen.
- 2** Press ◀/▶ to select the programme for reminder.
- 3** Press the **BLUE** button.
 - A Reminder Setting menu will be shown. It provides the following setting options.


Channel	Select the channel.
Minute	Set the time.
Hour	
Month	Set the month.
Date	Set the date.
Mode	Select a mode for reminder.
- 4** Press ▲/▼ to choose an item and ◀/▶ to change the setting.
- 5** Press **OK** to enter the programme to the Schedule List.
 - An updated Schedule List will be shown.

-  • During the last 10 seconds of the preset reminder time, an on-screen countdown will be displayed. Press any button on the remote control or TV during the countdown will cancel the reminder.

Viewing Schedule List

You can browse and change the future scheduled recordings or reminders.

- 1** Press **GUIDE** to display the PROGRAMME GUIDE screen.
- 2** Press the **YELLOW** button to display the Schedule List.
 -  • If the highlighted programme is currently showing, press the **RED** button will start the instant recording instead.
- 3** To delete a scheduled recording or reminder from the list, press ▲/▼ to select and press the **RED** button to delete.

-  • Once a programme is recorded or reminded, it will be removed from the Schedule List.

PVR Operation

About PVR

This TV has a Personal Video Recorder (PVR) that allows you to record digital TV programmes to an external USB storage device (e.g. hard disk drive). With PVR, you can pause Live TV and you can even set up to record a series so you never miss an episode of your favourite programme.

After the new USB storage device is connected to the USB port, you should format it first in order to record. (☞ page 24)

CAUTION

- ▲ **Safe Removal of USB Storage Device**
 - Do not disconnect the USB storage device while it is being accessed. Doing so can damage the device or the files stored on the device. You can safely connect or disconnect the USB storage device when the TV is at standby mode.
 - Back up all of the data in the USB storage device in case if data was lost due to unexpected accident. We do not assume any liability for the losses by misuse or malfunction.
- ✎ Not all USB storage devices are compatible with this TV.
 - The file names and folder names that are not in English may not be detected or displayed correctly.
 - The On Screen Display (OSD) shown in this manual may be different from your TV.

5 Current Time

6 Available USB Storage Device Recording Time

- ✎ The recording will be automatically named based on the programme that was being watched when you first press **PVR**.
- No other channel can be selected while the recording is in progress.
- Input source is not selectable during PVR recording.

Instant Recording

When watching TV, you can start an instant record of the current programme.

- 1 Press **PVR** to record the channel that you are watching.
- 2 To end the recording, press **PVR** to display the Control Bar.
- 3 Press **◀/▶** to select **■** and press **OK**.

Time Shifting

Time Shifting is a non-linear recording and playback system. You can pause a broadcast channel with Time Shifting function and watch it later at a more convenient time.

- 1 Press **PVR** to start time shift recording.
- 2 Press **PVR** to display the Control Bar.
- 3 Press **◀/▶** to select **▶** and press **OK** to playback the recording.
- 4 To end the playback and return to the current live broadcast recording, press **PVR** to display the Control Bar.
- 5 Press **◀/▶** to select **■** and press **OK**.

- ✎ Only **▶**, **■**, **⏏** and **PVR** buttons are functional in Time Shift mode.



1 Elapsed Time

2 Control Bar

- Press **PVR** to display the Control Bar during the recording.











3 Channel Name

4 Control Items

- Press **◀/▶** to select **▶** or **■** and press **OK** to execute the selection.

Viewing Your Recorded Programme

You can access to previously recorded programmes. You can sort and view the recorded list by programme, time or channel, and delete the recorded programmes.

- 1 Press  to display Recorded List.
- 2 Press  repeatedly to sort the list by programme, time or channel.
- 3 To see more details of the recorded programme, press  /  to select and press  or .
- 4 To delete a recorded programme from the list, press  /  to select and press the **RED** button to delete.
- 5 To playback a recorded programme from the list, press  /  to select and press **OK** to start playback.



PVR Playback

You can simply select the recorded programme from the Recorded List and press **OK** to start playback.



- 1 Progress Bar
- 2 Elapsed Time / Total Playback Time




- 3 **Control Bar**
 - Press **PVR** to display the Control Bar during the playback.




- 4 **Control Items**
 - Press  /  to select the desired control item and press **OK** to execute the selection.

Use these control items on the Control Bar to control the PVR playback.

Control Item / Button

- ▶ **Play**
Resume normal playback.

- ◀◀ **Search Backward**
Search backward the playback.
 - Select  and press **OK** repeatedly to select the search backward speeds: FR2X, FR4X, FR8X, FR16X.
 -  • Select  and press **OK** to resume normal playback.

- ▶▶ **Search Forward**
Search forward the playback.
 - Select  and press **OK** repeatedly to select the search forward speeds: FF2X, FF4X, FF8X, FF16X.
 -  • Select  and press **OK** to resume normal playback.

- ◀◀ **Previous**
Skip to the previous recorded programme.




- ▶▶ **Next**
Skip to the next recorded programme.


- || **Pause**
Pause the playback.

- **Stop**
Stop the playback.




Menu Operation

Picture Menu

Selected Items		Setup Hints	
Picture Mode	Dynamic	Select the most suitable picture mode according to your lighting condition.	
	Natural		
	Cinema		
	Favourite		
Brightness *		Adjust to brighten or darken the picture.	
Contrast *		Adjust to increase or decrease the picture contrast.	
Colour *		Adjust to increase or decrease the colour intensity.	
Tint *		Adjust to obtain natural skin colour.	
		 • "Tint" can only be selected and adjusted when receiving NTSC signal.	
Sharpness *		Adjust to sharpen or soften the picture.	
Colour Temperature	Cool	Select the most suitable settings depending on your preferred colour tone.	
	Normal		
	Warm		
	Favourite		Red **
			Green **
Blue **			
Picture Size	Full	Select the desired picture size.	
	4:3		
	Auto		
	Panoramic		
	Zoom		
	Cinema		
			<div style="background-color: #003366; color: white; padding: 2px; text-align: center;">CAUTION</div>  • When displaying the image in "4:3" Picture Size for a long time, it can cause a permanent after-image on the TV screen.
	 • In PC mode, only "4:3" and "Full" are available for "Picture Size". • If Wide Screen Signalling (WSS) is not transmitted and detected, TV will automatically set Picture Size as "Full".		
DNR (Digital Noise Reduction)	Off	Set to reduce noise in the picture due to weak signal condition.	
	Low		
	Middle		
	High		

-  • Menu items that are not selectable are grayed out.
- The menu items indicated by "*" are only available when "Picture Mode" is set to "Favourite".
- The menu items indicated by "**" are only available when "Colour Temperature" is set to "Favourite".
- "Picture Size" is not available in MEDIA mode.
- "Colour", "Sharpness" and "DNR" are not available in RGB mode.

Audio Menu

Selected Items		Setup Hints
Sound Mode	Standard	Select the most suitable sound mode according to your watching contents.
	Movie	
	Music	
	Speech	
	Favourite	
Bass *		Adjust the low-pitched sound.
Treble *		Adjust the high-pitched sound.
Balance		Adjust the left and right sound channel volume.
		 • "Balance" is only available when "Surround Sound" is set to "Off".
Perfect Volume	Off	Select "On" to automatically adjust the volume to its average level each time you change the channel.
	On	
Surround Sound	Off	Select "On" to activate Surround Sound.
	On	
AD Switch (Audio Description Switch)	Audio Off	Select "On" to activate the auditory narration of visual representations.
	Description On	
	AD Volume	 • "AD Volume" is only available when "Audio Description" is set to "On".
Digital Audio Output	Auto	Select "PCM" to output audio signal by PCM format. Select "Auto" to output audio signal by Dolby Digital or PCM format. Dolby Digital format is output if the audio track of the broadcasting programme is in Dolby Digital format. In case the broadcasting programme is in MPEG format, PCM format will be selected.
	PCM	
	Dolby Digital	
		 • It is recommended to select "PCM".











- Menu items that are not selectable are grayed out.
- The menu items indicated by " * " are only available when "Sound" is set to "Favourite".
- "Digital Audio Output" and "AD Switch" are only available in DTV mode.

Setup Menu (TV and DTV mode only)









Selected Items		Setup Hints
Auto Tuning	DTV + TV	Tune for all available digital and analogue broadcasting channels automatically.
	DTV	Tune for all available analogue broadcasting channels automatically.
	TV	Tune for all available digital broadcasting channels automatically.
DTV Manual Tuning		<p>Search for the digital broadcasting channel manually.</p> <p>To manual tune for the digital broadcasting channel</p> <ol style="list-style-type: none"> 1 Press ◀/▶ to select the channel number. 2 Press the OK button to begin the search for the channel.
TV Manual Tuning	Save To	Press ◀/▶ to select the position you want to store the current channel.
	Sound System	Select the appropriate sound system. <ul style="list-style-type: none"> • If the sound is not clear, select another sound system.
		BG
		I
		DK
		L
	Current Channel	Select the channel you want to tune.
Search	Press ◀/▶ to search the frequency.	
Fine Tuning		Fine tune the current channel.
		Press ◀/▶ to decrease or increase the frequency.
Frequency	Display the current channel frequency.	
Channel Edit		<p>Set the channels according to your preference. You can set your favourite channels, move, rename, delete or skip the channels you want.</p> <p>To delete the channel</p> <ol style="list-style-type: none"> 1 Press ▲/▼ to select the channel to be deleted. 2 Press the RED button. 3 Press the RED button again to delete the channel. <ul style="list-style-type: none"> • The selected channel is deleted, all the following channels are shifted up one position. • The deleted channel cannot be found unless you perform a channel search again.

Setup Menu (TV and DTV mode only) (continue)

Selected Items	Setup Hints
Channel Edit	<p>To rename the channel (TV mode only)</p> <ol style="list-style-type: none"> 1 Press ▲ / ▼ to select the channel to be renamed. 2 Press the GREEN button. 3 Press ▲ / ▼ to input the desired characters. 4 Press ▶ to move to the next character. 5 Press OK when the renaming is completed. <p> • The name will be displayed on the screen when the channel is selected.</p> <p>To move the channel</p> <ol style="list-style-type: none"> 1 Press ▲ / ▼ to select the channel to be moved. 2 Press the YELLOW button. 3 Press ▲ / ▼ to select the new position for the channel. 4 Press the YELLOW button to move the channel. <p>To skip the channel</p> <ol style="list-style-type: none"> 1 Press ▲ / ▼ to select the channel to be skipped. 2 Press the BLUE button ( symbol appears). <p> • The channel will then be skipped when you select channels with P[^] / P^v.</p> <ul style="list-style-type: none"> • You can still select a skipped channel using the Number buttons. • To unskip the channel, select the channel and press the BLUE button ( symbol is removed). <p>To set favourite channel</p> <ol style="list-style-type: none"> 1 Press ▲ / ▼ to select the favourite channel. 2 Press the FAV button ( symbol appears). <p> • To cancel the favourite channel, select the channel and press the FAV button ( symbol is removed).</p>
Signal Information	Display information about signal of currently selected channel.

-  • Menu items that are not selectable are grayed out.
- "Signal Information" is only available in DTV mode.

Function Menu

Selected Items		Setup Hints
OSD Language	English	Show the on-screen display language.  • The OSD language is English only.
Hearing Impaired	On Off	Select "On" to display the subtitles for the hearing impaired.
Country	Australia New Zealand	Show the country of the local area.
PVR File System	Select Disk	USB Disk
		USB Disk
		Select the USB port that the USB storage device is connected.
		Select the partition (if available) of the USB storage device.
	Check PVR File System	Select to check the PVR File System.
	USB Disk	Show the status of the PVR File System checking.
	Format	PVR File System Type
		Select to format the USB storage device. The USB storage device can be formatted as "FAT32" or "Hi Speed" .
CAUTION		
		 • All data in the USB storage device will be erased when it is formatted.
	PVR File System Size	Select the desired recording capacity.  • "PVR File System Size" is only available when "PVR File System Type" is set to "Hi Speed" . • The recording capacity depends on the video format that is being recorded.
	Time Shift Size	Show the time shift disk size.
	Speed	Show the speed of the USB storage device.
	Free Record Limit	Select the maximum recording time.
Time	Time Zone	Select the local time zone.  • This function allows you to select the local time zone in case the time displayed in the EPG does not match the local time of your area.
	Clock	Set the current time for the TV.  • If you turn off the TV by switching off the main power switch, you will need to set the clock again. • "Clock" can only display the clock time when on a digital broadcasting channel and the time information is available.
	Sleep Timer	Off 10 Min. 20 Min. 30 Min. 60 Min. 90 Min. 120 Min. 180 Min. 240 Min.
		Select the length of time to switch the TV off to standby mode.  • To cancel, press  repeatedly until "Off" appears. • To display the remaining time, press  once. • If you switch off the TV and switch it on again, Sleep Timer is set to "Off" .

Function Menu (continue)

Selected Items			Setup Hints
Time	Auto Off	On Off	Select " On " to switch the TV off to standby mode automatically if there is no signal input for 15 minutes.
DivX Registration			Obtain the DivX VOD Registration Code of the TV.
DivX Deactivation			Obtain the DivX Deregistration Code of the TV.
100/120Hz Scan	On Off		Select " On " to reduce motion blur during fast moving scenes.



- Menu items that are not selectable are grayed out.
- "**Hearing Impaired**" and "**PVR File System**" are only available in DTV mode.

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

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

Advanced Setup Menu

Selected Items		Setup Hints
Set Password		Set the password for Advanced Setup menu. The factory default password is "0000".
Parental Control	No Block	Set to control the programmes that can be viewed on your TV.
	P	
	C	
	G	Rating Description
	PG	No Block Cancel the blocking.
	M	Pre-school (P) Content is suitable for pre-schoolers under age 5.
	MA	Children (C) Content is suitable for children age 6-7.
	AV	General (G) For general exhibition. All ages may watch.
	R	Parental guidance recommended (PG) Parental guidance is recommended for young viewers.
Daylight Saving	On	Mature audience 15+ (M) Recommended for mature audience.
	Off	Mature adult audience 15+ (MA) Not suitable for people under age 15.
		Adult audience strong violence 15+ (AV) Not suitable for people under age 15. The programmes contain violence content.
		Restricted 18+ (R) Not suitable for people under age 18.
		Select "On" to update the date and time for your TV.
Software Update		For software updating.
Restore Default		Restore all settings to the default factory settings.



- A password is required to access the Advanced Setup menu.
- In case you have forgotten your password, enter "9999" to disable lock and reset the password to factory default password.
- You can view blocked programmes by entering the password when prompted. This temporarily switches off the Parental Control for the current channel until the TV is turned off, the channel is changed or a programme with a higher rating starts.
- "Parental Control" is only available in DTV mode.
- "Software Update" is only available in TV and DTV mode.

RGB Mode Setup Menu (RGB mode only)

Selected Items		Setup Hints
Auto Adjust		Auto adjust the screen position, phase and clock.
H Position		Adjust the horizontal position of the picture.
V Position		Adjust the vertical position of the picture.
Clock Phase		Adjust to minimize the blurring of the letters and stripes on the horizontal row.
		<ul style="list-style-type: none"> • Make sure to adjust "H Clock" before adjusting "Clock Phase".
H Clock		Adjust to minimize the vertical stripes on the screen.



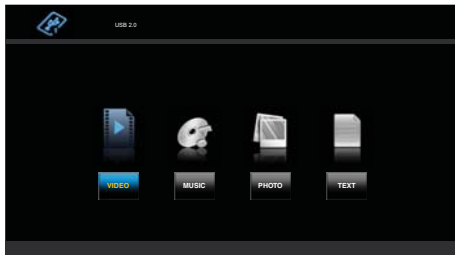
- RGB Mode Setup menu is only available in RGB mode and when receiving a compatible RGB/PC signal via RGB Input terminal.

Media Operation

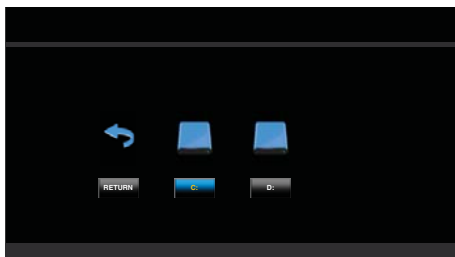
You can play video, photo, music and text files from your USB storage device.

To playback media file

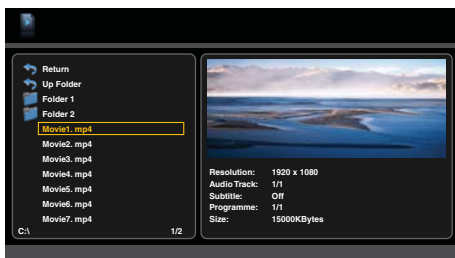
- 1 Connect the USB storage device into the MEDIA input terminal.
- 2 Press **MEDIA** to display the Media Selection Menu.



- 3 Press **◀/▶** to select the desired media and press **OK** to display the Drive Selection Menu.



- 4 Press **◀/▶** to select the desired drive and press **OK** to display the Media (Video, Music, Photo or Text) Menu.



- 5 Press **▲/▼** to select the desired folder and press **OK** to open the folder; or press **▲/▼** to select the desired file and press **▶II** to start playback.

- The currently highlighted media file will automatically start playing in the preview window if the file type is supported.

CAUTION

- **Safe Removal of USB Storage Device**
Do not disconnect a USB storage device while it is being accessed. Doing so can damage the device or the files stored on the device. You can safely connect or disconnect the USB storage device when the TV is at standby mode.
- Back up all of the data in the USB storage device in case if data was lost due to unexpected accident. We do not assume any liability for the losses by misuse or malfunction.

- Not all USB storage devices are compatible with this TV.
- The file names and folder names that are not in English may not be detected or displayed correctly.
- The On Screen Display (OSD) shown in this manual may be different from your TV.

To playback selected media files

- 1 At the Media Menu, press **▲/▼** button to select the media file and press **OK** to mark (tick symbol appears).
- 2 Repeat Step 1 if you want to add more media files to playback, or press **▶II** to start playback.

- To deselect the media file, select the media file and press **OK** (tick symbol is removed).
- If no media files are marked, all media files in the folder will be playback.

To set background music for photo/text playback

- 1 At the Music Menu, press **▲/▼** button to select the music file and press **OK** to mark (tick symbol appears).
- 2 Repeat Step 1 if you want to add more music files for the background music.
- 3 Exit the Music Menu after you had selected the music files.
- 4 During the photo/text playback, press **Ⓢ** to display the Control Bar
- 5 Press **◀/▶** to select **🎵** and press **OK** to play the background music.
- 6 To stop the background music, press **◀/▶** to select **🔇** and press **OK**.

Media Menu

Video Menu

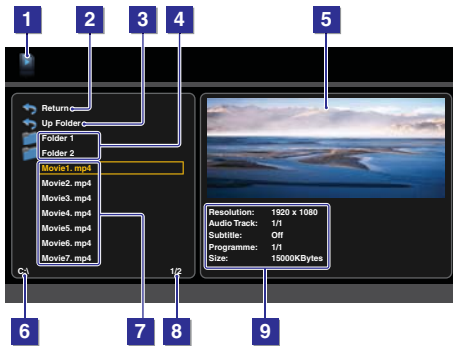
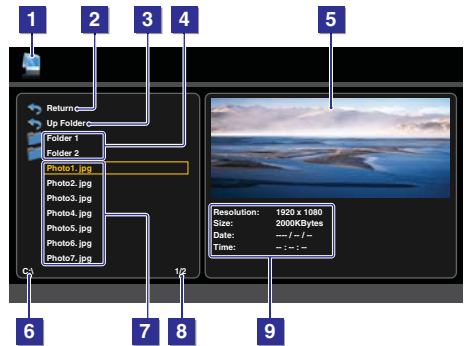
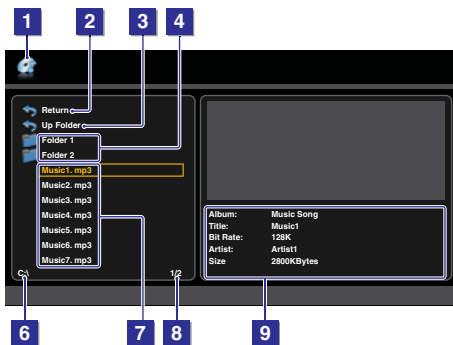


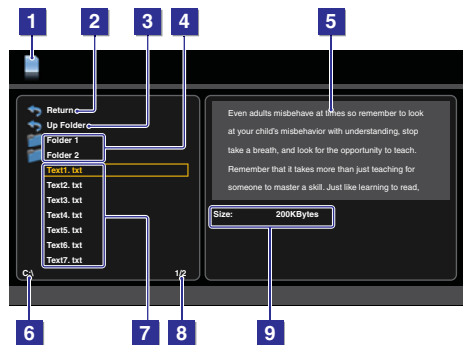
Photo Menu



Music Menu



Text Menu



1 Media Icon

2 Return

- Press ▲/▼ to select and press **OK** to return to Drive Selection Menu

3 Up Folder

- Press ▲/▼ to select and press **OK** to move to upper level folder.

4 Folder List

5 Preview

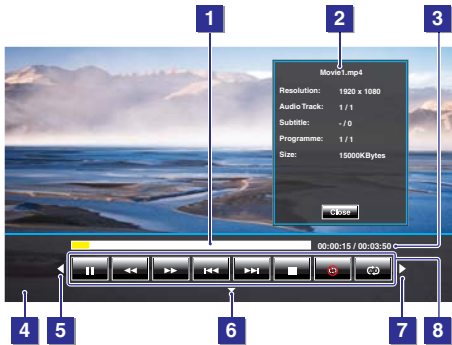
6 Drive

7 File List

8 Current Page / Total Pages

9 File Info

Video Playback



1 Progress Bar

2 File Information

3 Elapsed Time / Total Playback Time

4 Control Bar

- Press **[+]** to display the Control Bar during the video playback.

5 Left Cursor

- Press **[Left]** to select the desired control item.

6 Down Cursor

- Press **[Down]** to hide the Control Bar.

7 Right Cursor

- Press **[Right]** to select the desired control item.

8 Control Items

- Press **[Left]** / **[Right]** to select the desired control item and press **OK** to execute the selection.

Use these control items on the Control Bar or these buttons on the remote control to control the video playback.

Control Item / Button

⏸ Pause

Pause the playback.

▶ Play

Resume the playback.

⏮ Play/Pause

Pause or resume the playback.

⏪ Search Backward

Search backward the playback.

- Press repeatedly to select the search backward speeds: FR2X, FR4X, FR8X, FR16X.

• Press **[Play/Pause]** to resume normal playback.

▶▶ Search Forward

Search forward the playback.

- Press repeatedly to select the search forward speeds: FF2X, FF4X, FF8X, FF16X.

• Press **[Play/Pause]** to resume normal playback.

⏮ Skip Backward

Skip to the previous video file.

▶▶ Skip Forward

Skip to the next video file.

■ Stop

Stop the playback and return to Video Menu screen.

Play Modes

🔄 Repeat Current

Playback the current video file repeatedly.

🔄 Repeat All

Playback all the video files repeatedly.

⊘ Repeat None

Cancel repeat.

⏮ Repeat AB

Set the starting and ending of a time segment to repeat.

- Select **[Repeat AB]** and press **OK** once at your chosen start point.
- Press **OK** again at your chosen end point.

• The time segment will then repeat continuously.

- To cancel, select **[Repeat AB]** and press **OK** repeatedly until **[Repeat AB] OFF** is shown on the screen.

📄 List

Display the list of video files.

• To close the list, press **[Right]** to select "Close" and press **OK**.

📄 File Info

Display the current video file information.

• To close the information, press **[Up]** / **[Down]** to select "Close" and press **OK**.

🕒 Time Search

Playback from the desired position by specifying the time.

- Press to display the Time Search window.
- Enter the time (Hour : Minute : Second).

🔍 Zoom In

Zoom in the current playback.

🔍 Zoom Out

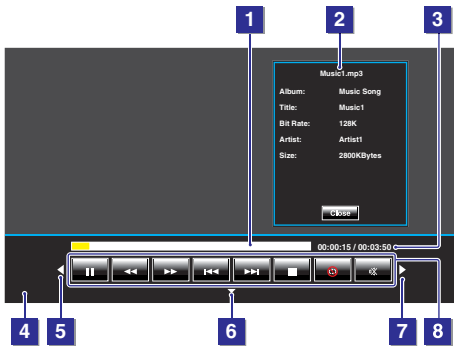
Zoom out the current playback.

👁 Pan

- Select **[Pan]** and press **OK**.
- Press **[Left]** / **[Up]** / **[Down]** / **[Right]** to pan the zoomed playback.

• To exit pan mode, press **OK**.
• To return to normal playback picture size, press **[Left]** / **[Right]** to select **[Zoom]** and press **OK** to adjust the picture size.

Music Playback



- 1 Progress Bar**
- 2 File Information**
- 3 Elapsed Time / Total Playback Time**
- 4 Control Bar**
 - Press **[+]** to display the Control Bar during the music playback.
- 5 Left Cursor**
 - Press **◀** to select the desired control item.
- 6 Down Cursor**
 - Press **▼** to hide the Control Bar.
- 7 Right Cursor**
 - Press **▶** to select the desired control item.
- 8 Control Items**
 - Press **◀/▶** to select the desired control item and press **OK** to execute the selection.

Use these control items on the Control Bar or these buttons on the remote control to control the music playback.

Control Item / Button

- || Pause**
Pause the playback.

- ▶ Play**
Resume the playback.

- || Play/Pause**
Pause or resume the playback.

- ◀ Search Backward**
Search backward the playback.
 - Press repeatedly to select the search backward speeds: FR2X, FR4X, FR8X, FR16X.

• Press **▶||** to resume normal playback.

- ▶ Search Forward**
Search forward the playback.
 - Press repeatedly to select the search forward speeds: FF2X, FF4X, FF8X, FF16X.

• Press **▶||** to resume normal playback.

- ◀◀ Previous**
Skip to the previous music file.

- ▶▶ Next**
Skip to the next music file.
 - **Stop**
Stop the playback and return to Music Menu screen.

- Play Modes**
- ↺ Repeat Current**
Playback the current music file repeatedly.
- ↺ Repeat All**
Playback all the music files repeatedly.
- ⊕ Repeat None**
Cancel repeat.

- ⊗ Mute**
Press to mute the sound.
Press again to cancel.

- ☰ List**
Display the list of music files.

• To close the list, press **▶** button to select "Close" and press **OK**.

- i File Info**
Display the current music file information.

• To close the information, press **OK**.

- ⌚ Time Search**
Display the Time Search window.
Enter the time (Hour : Minute : Second).

Photo Playback



1 File Information

2 Control Bar

- Press **[I]** to display the Control Bar during the photo playback.

3 Left Cursor

- Press **◀** to select the desired control items.

4 Down Cursor

- Press **▼** to hide the Control Bar.

5 Right Cursor

- Press **▶** to select the desired control items.

6 Control Items

- Press **◀/▶** to select the desired control items and press **OK** to execute the selection.

Use these control items on the Control Bar or these buttons on the remote control to control the photo playback.

Control Item / Button

⏸ Pause

Pause the playback.

▶ Play

Resume the playback.

⏮ Play/Pause

Pause or resume the playback.

⏪ Previous

Skip to the previous photo file.

⏩ Next

Skip to the next photo file.

■ Stop

Stop the playback and return to Photo Menu screen.

Play Modes

🔄 Repeat Current

Playback the current photo file permanently. No slideshow is performed.

🔄 Repeat All

Playback all the photo files repeatedly.

⊘ Repeat None

Cancel repeat.

🔇 Stop Background Music

Stop the background music.

🎵 Play Background Music

Play the background music while viewing the photo files. (☞ page 27)



- If no background music is set, all the music files in the same folder as the photo files will be played back.

📄 List

Display the list of photo files.



- To close the list, press **▶** button to select "Close" and press **OK**.

📄 File Info

Display the current photo file information.



- To close the information, press **OK**.

🕒 Rotate Clockwise

Rotate the current photo clockwise.



- Press **▶II** to resume normal playback.

🕒 Rotate Counter Clockwise

Rotate the current photo counter clockwise.



- Press **▶II** to resume normal playback.

🔍 Zoom In

Zoom in the current photo.

🔍 Zoom Out

Zoom out the current photo.

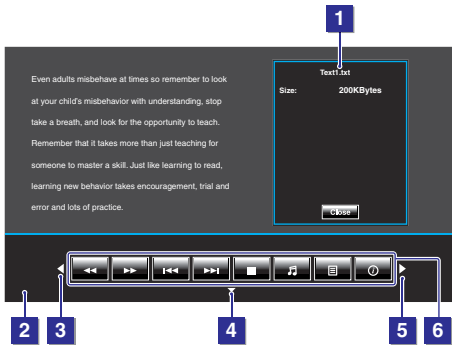
📏 Pan

- Select **📏** and press **OK**.
- Press **◀/▲/▼/▶** to pan the zoomed photo.



- Press **▶II** to resume normal playback.

Text Playback



1 File Information

2 Control Bar

- Press **[I+]** to display the Control Bar during the text playback.

3 Left Cursor

- Press **◀** to select the desired control items.

4 Down Cursor

- Press **▼** to hide the Control Bar.

5 Right Cursor

- Press **▶** to select the desired control items.

6 Control Items

- Press **◀/▶** to select the desired control items and press **OK** to execute the selection.

- To minimize the loss of characters in multi-language content, you can save the text file with unicode encoding.

Use these control items on the Control Bar or these buttons on the remote control to control the text playback.

Control Item / Button

- ◀ Search Backward**
Display the previous page of the text file.
- ▶ Search Forward**
Display the next page of the text file.
- ◀ Previous**
Skip to the previous text file.
- ▶ Next**
Skip to the next text file.
- Stop**
Stop the playback and return to Text Menu screen.
- Stop Background Music**
Stop the background music.
- Play Background Music**
Play the background music while viewing the text files. (↶ page 27)
 - If no background music is set, all the music files in the same folder as the text files will be played back.
- List**
Display the list of text files.
 - To close the list, press **▶** button to select "Close" and press **OK**.
- File Info**
Display the current text file information.
 - To close the information, press **OK**.

Playable File Types

■ Video

File Type	File Extension Name
MPEG	.mpg .mpeg

- All programmes recorded by this TV can be playback on this TV via MEDIA mode.

■ Music

File Type	File Extension Name
MP3	.mp3

■ Photo

File Type	File Extension Name
JPEG	.jpg .jpeg











■ Text

File Type	File Extension Name
TXT	.txt (Encoding standard : Unicode)

Teletext Operation


Teletext is a free service broadcast provided by most TV stations. It provides information on the current affairs news, weather forecasts, programme previews, stock market report and many other topics.



Button	Description
1 Number buttons (0 - 9)	Press to select a Teletext page. (Enter 3 digits)
2 TV/Text ()	Press to enter Teletext mode. Press again to exit Teletext mode. <div style="border: 1px solid #ccc; padding: 5px; background-color: #f0f0f0;"> <p> If "No Teletext" appears on the screen, it may mean that the channel you have selected does not support teletext.</p> </div>
3 Cancel ()	Press to return to TV programme temporarily while searching for a Teletext page. When the search is done, the page number with black background will be displayed on the upper left of the screen. Press again to return to the Teletext page.
4 Index ()	Press to display the main index page.
5 Reveal ()	Press to display the hidden text (e.g. the answers of puzzles or riddles). Press again to close the revealed answer.
6 Page Select (P^ / P^v)	Press to move to the next or previous Teletext page.
7 Subtitle ()	Press to access subtitle service directly (if the channel has the subtitle service broadcasting).
8 Hold ()	Press to hold the current Teletext page. Press again to cancel the hold mode.
9 Sub Page ()	Press to enter or exit sub page mode (if sub page is available). Press ▲ / ▼ to select the desired sub page.
10 Mix ()	Press to superimpose the teletext over the TV programme. Press again to cancel the mix mode.
11 Size ()	Press to enlarge the top half of the page. Press again to enlarge the bottom half of the page. Press again to return to the normal size.
12 Colour buttons	Press to access to a link page displayed at the bottom of the Teletext page. (Select the corresponding coloured page)

Troubleshooting

Before calling service personnel, please check the following troubleshooting guide. If any problem still persists, unplug the TV set and call for servicing.

Symptom	Check List
No picture, no sound	<ul style="list-style-type: none"> • Check if the main power of the TV is turned on. • Check the connection of the power cord and/or other cables.
Normal picture, no sound	<ul style="list-style-type: none"> • Check the volume level. • Check if the  button has been pressed or not. • Check the connection of the external equipment.
Poor colour or no colour, normal sound	<ul style="list-style-type: none"> • Check the value level of "Brightness", "Contrast" and "Colour" in Picture menu.
Multiple images, normal sound	<ul style="list-style-type: none"> • Check the antenna connection and direction. • Fine tuning the TV. • Check the connection of the external equipment. • The TV station may have broadcast difficulties. Try another channel.
Snowy picture, poor sound	<ul style="list-style-type: none"> • Check the antenna connection and direction. • The TV station may have broadcast difficulties. Try another channel.
Intermittent interference	<ul style="list-style-type: none"> • Check if the source of interference is shield well. • Remove those kinds of electrical devices away from the TV.
Poor stereo sound	<ul style="list-style-type: none"> • The TV station may have broadcast difficulties. Try to change to mono mode.
Remote control does not work	<ul style="list-style-type: none"> • Check if the batteries are installed correctly. • The batteries may be exhausted. Replace them with new ones. • Remove all obstruction between the remote control and the remote control sensor. • Ensure there is no strong light shining on the remote control sensor.
HITACHI logo appears on the screen	<ul style="list-style-type: none"> • The TV cannot detect any signals from any input terminals. • Check if the cable is connected correctly and firmly. • Check if the power of any external equipment is turned on. • Check if the input source selection is correct.
HITACHI logo or "Unsupported Signal" appears on the screen (RGB mode only)	<ul style="list-style-type: none"> • Check if the display resolution and frequency from your PC is a valid mode for the TV. Refer to the recommended RGB input signal chart
Image not centered (RGB mode only)	<ul style="list-style-type: none"> • Adjust the "H Position" and "V Position" in the Picture menu.

Specifications

Model Name		LE46EC05AU	LE42EC05AU
Panel	Size	Approx. 46 inches	Approx. 42 inches
	Resolution	1920 x 1080	1920 x 1080
Power Requirement		AC 100-240V, 50/60Hz	AC 100-240V, 50/60Hz
Power Consumption		160W	140W
Audio Output		10W + 10W	10W + 10W
Dimensions (WxHxD)	With Stand	1110 x 744 x 221mm	1013 x 689 x 220mm
	Without Stand	1110 x 700 x 47mm	1013 x 636 x 54mm
Weight	With Stand	19.0kg	16.2kg
	Without Stand	16.4kg	13.6kg
Terminals / Input Signals	Tuner	Analogue	PAL BG, DK, I SECAM DK (44.25MHz ~ 863.25MHz)
		Digital	DVB-T (177.5MHz ~ 809MHz)
	AV IN	CVBS PAL, SECAM, NTSC	
	COMPONENT IN	YPBPR 480i/p, 576i/p, 720p(50/60), 1080i(50/60), 1080p(50/60)	
	HDMI1, HDMI2, HDMI3	480i/p, 576i/p, 720p(50/60), 1080i(50/60), 1080p(24/50/60)	
	RGB IN (Analogue)	640x480(60), 800x600(60), 1024x768(60), 1280x1024(60)	
	MEDIA	USB Port	
	AUDIO IN	Dia 3.5mm Mini Jack	
	Terminals / Output Signals	Audio Out	Analogue or Digital TV only
		S/PDIF	Digital Audio Output (Coaxial)
Headphones		Dia 3.5mm Mini Jack	
Environment		Working Temperature: 5 ~ 35°C Working Humidity: 20 ~ 80% Storage Temperature: 15 ~ 45°C Storage Humidity: 10 ~ 90%	
Supplied Accessories		User Manual (x1) Product Warranty Info Sheet (x1) Remote Control (x1) AAA Battery (x2) Stand (x1) Component Video Adaptor (x1) Composite Video Adaptor (x1) USB Extension Cable (x1) Screws (x4) for Stand Installation Spacers (x4) and Screws (x4) for Wall Mount Bracket Installation	



- Design and specifications are subject to change without notice.
- Weight and dimensions shown are approximate values only.

RGB Input Signal Chart

Resolution	Vertical Frequency (Hz)	Horizontal Frequency (kHz)	Dot Clock Frequency (MHz)	
VGA	640 x 480	60	31.47	25.18
SVGA	800 x 600	60	37.88	40.00
XGA	1024 x 768	60	48.36	65.00
SXGA	1280 x 1024	60	63.98	108.00
WXGA	1280 x 768	60	47.78	79.50



- If the message “**Unsupported Signal**” appears on the screen, adjust the PC display setting as in the above chart.
- Modes that are not listed in the above chart may not be supported. For an optimal picture, it is recommended to choose a mode listed in the chart.
- Sometimes, the image may be disrupted due to the frequency standard from the VGA card. This is not an error. You may improve this situation by selecting “**Auto Adjust**” or adjusting the position, phase and clock settings in the Picture menu manually.
- If you switch off the TV, interference lines may occur on the TV screen. This is normal.

HDMI Input Signal Chart

Resolution	Vertical Frequency (Hz)	Horizontal Frequency (kHz)	Dot Clock Frequency (MHz)	
VGA	640 x 480	60	31.47	25.18
576i	720(1440) x 576	50	15.63	27.00
480i	720(1440) x 480	60	15.73	27.00
576p	720 x 576	50	31.25	27.00
480p	720 x 480	60	31.47	27.00
1080i/50	1920 x 1080	50	28.13	74.25
1080i/60	1920 x 1080	60	33.75	74.25
720p/50	1280 x 720	50	37.50	74.25
720p/60	1280 x 720	60	45.00	74.25
1080p/50	1920 x 1080	50	56.25	148.50
1080p/60	1920 x 1080	60	67.50	148.50
1080p/24	1920 x 1080	24	27.00	74.25

Memo

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