

TOSHIBA

DVB

**HD
ready**

HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

DVD
VIDEO

**COMPACT
disc**
DIGITAL AUDIO

**COMPACT
disc**
DIGITAL VIDEO

DIVX

DOLBY
DIGITAL

dtsTM
Digital Out

LCD TV/DVD COMBINATION

19DV665DB

19DV667DB

22DV665DB

22DV667DB

26DV665DB

OWNER'S MANUAL



Owner's Record

The model number and serial number are on the back of your TV/DVD. Record these numbers in the spaces below. Refer to these numbers whenever you communicate with your Toshiba dealer about this TV/DVD.

Model number: _____

Serial number: _____

©2009 Toshiba Corporation
Before operating the unit, please read this manual thoroughly.

Precautions

CAUTION:

THIS UNIT IS A CLASS 1 LASER PRODUCT. HOWEVER THIS UNIT USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE UNIT.



WHEN THIS UNIT IS PLUGGED INTO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENINGS TO LOOK INTO THE INSIDE OF THIS UNIT.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Headphone Warning

Loud music can damage your hearing irreversibly, therefore do not set the volume to a high level when listening through headphones, particularly for extended listening periods.

Information for the DVB-T function

- Any function relative to the digital television (with the DVB logo) is available only within the country or area where such signals are transmitted. Verify with the salesman if it is possible to receive a DVB-T signal in the zone where you live.
- Even if the television conforms to the DVB-T specifications, the compatibility to future digital DVB-T transmissions is not guaranteed.
- Some digital television functions may not be available in some countries.
- The DVB-T system present in this device is FTA (Free to air).
- The "HD ready" logo is a trademark of EICTA.
- DVB is a registered trademark of the DVB Project. This logo indicates that the product is compliant with European Digital Broadcasting.

Possible Adverse Effects on LCD Screen: If a fixed (non-moving) pattern remains on the LCD screen for long periods of time, the image can become permanently engraved in the LCD TV panel and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. Never leave your TV on for long periods of time while it is displaying the following formats or images:

- Fixed Images, such as stock tickers, video game patterns, TV station logos, and websites.
- Special Formats that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (Black bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (Black bars on left and right sides of screen).

The examples used throughout this manual are based on the 26DV665DB model.

IMPORTANT INFORMATION

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television or its controls.

Place the TV on a stable, level surface that can support the weight of the TV. In order to maintain stability and prevent it falling over, secure the TV to the level surface using the strap located under the table top stand, or, to a wall using a sturdy tie to the clip on the back of the table top stand.

Contents

Precautions	2
Important safety information	4
Location of controls	6
Remote control	7
Aerial connection	9
Auto setup	10
Quick guide for menu operation	11
Selecting the video input source	13
Automatic station presetting with the built-in Tuner	14
Changing the order of stored channels	15
Manual TV station presetting	16
Basic operation	17
Teletext	19
Stereo reception with the built-in analogue tuner	20
Picture format	21
Other convenience functions	22
Display setup/Timer setting (DTV mode only)	24
Password setup (Parental lock) (DTV mode only)	25
Version	26
Software upgrade (DTV mode only)	27
Common interface (DTV mode only)	28
Multi audio (DTV mode only)	29
DVB-Subtitle/Using the Digital Service (DTV mode only)	30
EPG (Electronic Program Guide) (DTV mode only)	31
EPG Timer (DTV mode only)	32
Disc	33
Playing a disc	34
Zooming/Locating desired scene	37
Marking desired scenes	38
Repeat playback/A-B playback	39
Changing angles/Title selection/DVD menu	40
Changing soundtrack language/Subtitles/Disc status	41
MP3/JPEG/DivX® and Audio CD operation	42
Program playback/Random playback	48
Customizing the function settings	49
Temporary cancel the rating level by DVD disc	55
PC connection	56
Connecting an HDMI or a DVI device to the HDMI input	57
Connecting TV to other equipment	58
Status message	60
Troubleshooting table	61
Specifications	62
The GNU General Public License (GPL)	63

Important safety information

This unit has been produced according to all current safety regulations. The following safety tips should safeguard users against careless use and the dangers connected with such use.

- Although this appliance has been carefully manufactured and rigorously checked prior to leaving the factory, as with all electrical appliances it is possible for problems to develop. If you notice smoke, an excessive build-up of heat or any other unexpected phenomena, you should disconnect the plug from the mains power socket immediately.
- Ensure that the unit is sufficiently ventilated! Never place next to or underneath curtains!
- This set should only be connected to an AC 110 ~ 240V/50Hz mains power supply - do not attempt to connect it to any other type of supply.
- The socket-outlet must be installed near the equipment and easily accessible.
- Any repairs must be carried out by qualified service personnel only.
- Do not open this unit. A non-expert attempting to repair the unit could be dangerous and potentially cause a fire hazard.
- Keep away from rodents. Rodents (and also cockatiels) enjoy biting into electric flexes.
- The animal can cause a short cut (fire hazard!) and receive a fatal electric shock.
- Always hold plug when pulling out plug from power mains supply system. Do not pull on flex. The flex can become overloaded and cause a short cut.
- Never wet clean. Only use a damp cloth, the same as when cleaning furniture.
- Set up unit so that no one is able to trip over the flex.
- This unit is recommended to be installed on shock-free benches in order to avoid any danger from falling.
- Take note that toddlers can pull the unit down from the table or cupboard by means of its flex. Children can hurt themselves when doing this.
- Do not use the unit near heat sources. The casing and flex could be damaged by the impact of heat.
- The screen is made of plastic and can break if damage is done to it. Be careful when collecting sharp edged plastic splitters.
- You could be hurt or the unit could be damaged.
- If the unit is mounted on the wall, contact the shop where you purchased the unit for advice, and leave the installation work to experts. Incomplete installation work can cause you injuries.
- When installing the set on a wall, allow at least 10 cm clearance between the rear of the set and the wall.
- Clearance of less than 10 cm will obstruct the vents and cause the interior of the set to overheat, resulting in faults or damage to the set.
- Taking fall-prevention measures
 - If these measures are not taken, the unit can fall and you could be injured.
 - Contact the shop where you purchased the unit to obtain full details of the measures.
- When a TV stand is used,
 - Ensure the unit is fully on the stand and placed in the centre.
 - Do not leave the stand doors open.
 - You could be hurt as a result of the unit falling or breaking, or your fingers being caught or jammed. Take extra precautions if you have children.
- Avoid placing the unit on any surfaces that may be subject to vibrations or shocks.
- To protect the unit during a thunder storm unplug the AC power cord and disconnect the aerial.
- **Caution:** Do not touch the aerial connector.
- When you leave your home for a long period of time, unplug the AC power cord for safety reasons.
- The unit becomes warm when in operation. Do not place any covers or blankets on the unit in order to prevent overheating. The ventilation holes are not to be blocked. Do not set up near radiators. Do not place in direct sunshine. When placing on a shelf leave 10 cm free space around the whole unit.
- Make some space around TV (correct shelf assembly).
- 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.
- Liquids spilled into the unit can cause serious damage. Switch the set OFF and disconnect the mains power supply, then consult a qualified service person before attempting to use the unit again.
- Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside this unit, one of the most crucial internal parts of the unit.
- Moisture condensation occurs during the following cases.
 - When you bring the unit directly from a cold place to a warm place.
 - When you use the unit in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
 - In summer, when you use the unit in a hot and humid place just after you move the unit from an air conditioned room.
 - When you use the unit in a humid place.
- Do not use the unit when moisture condensation may occur.
- If you use the unit in such a situation, it may damage discs and internal parts. Remove the disc, connect the mains lead of the unit to the mains power outlet, turn on the unit, and leave it for two or three hours. After two or three hours, the unit will have warmed up and evaporated any moisture. Keep the unit connected to the mains power outlet and moisture condensation will seldom occur.
- Never place hot objects of open flame sources, such as lighted candles or nightlights, on or close to the TV.
- High temperatures can melt plastic and lead to fires.

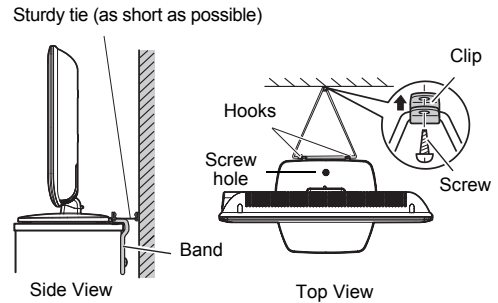
Important safety information (continued)

Where to install

Locate the television away from direct sunlight and strong lights, soft, indirect lighting is recommended for comfortable viewing. Use curtains or blinds to prevent direct sunlight falling on the screen.

Place on a sturdy platform, the mounting surface should be flat and steady. It should then be secured to the wall with a sturdy tie using the clip on the back of the stand, or secured to the platform using the fixing strap located underneath the table top stand, this will prevent it from falling over.

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

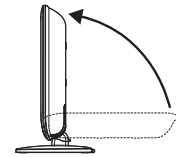


Make sure the television is located in a position where it cannot be pushed or hit by objects, as pressure will break or damage the screen, and that small items cannot be inserted into slots or openings in the case.

Retractable pedestal stand and locating the LCD TV

Observe the following safety precautions:

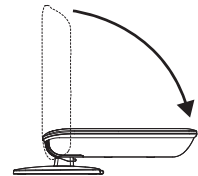
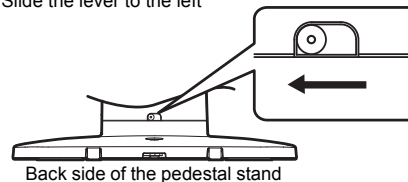
- (1) Ensure that unpacking and transfer of the unit is carried out by two or more people.
- (2) Put the LCD TV on a large level area in a recumbent posture.
- (3) Grab the pedestal stand and lift the display up. Confirm the pivot is locked.
- (4) Place the TV on a sturdy, level surface that can support the weight of the TV.
- (5) Be sure to secure the TV to a wall stud, pillar, surface, or other immovable structure. To secure the TV in this manner: (1) attach a clip to an immovable structure, then (2) pass a sturdy strap through the clip and attach each end to the hooks located at the back of the TV. Be sure to leave at least 10 cm between the TV and the wall or similar structure for ventilation.



To fold the pedestal stand

- (1) Slide the lever on the back side of the pedestal stand to the left.
- (2) Lay the display down.

Slide the lever to the left



Note: Do not operate the LCD TV when the pedestal stand is folded. The pedestal stand should not be folded at any time except for packing purposes.

Please take note

EXCLUSION CLAUSE

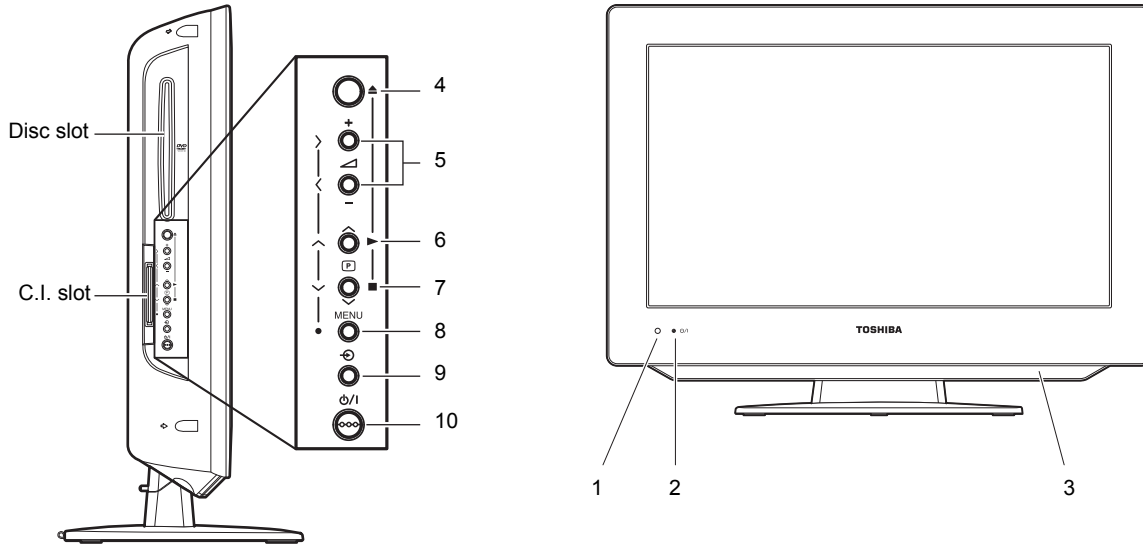
Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

- i) fire;
- ii) earthquake;
- iii) accidental damage;
- iv) intentional misuse of the product;
- v) use of the product in improper conditions;
- vi) loss and/or damage caused to the product whilst in the possession of a third party;
- vii) any damage or loss caused as a result of the owner's failure and/or neglect to follow the instructions set out in the owner's manual;
- viii) any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following, loss of profit, interruption of business, the loss of recorded data whether caused during normal operation or misuse of the product.

If stationary images generated by text services, channel identification logos, computer displays, video games, on-screen menus, etc. are left on the television screen for any length of time they could become conspicuous, it is always advisable to reduce both the brightness and contrast settings.

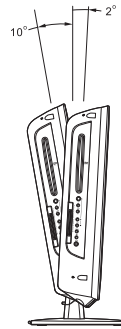
Location of controls



Adjusting the screen angle

You can adjust the angle of the TV-screen for 2° forward or for 10° backward from vertical angle. Hold the base of the TV while adjusting the angle.

Applicable to the following models:
19DV665DB, 19DV667DB, 22DV665DB,
22DV667DB

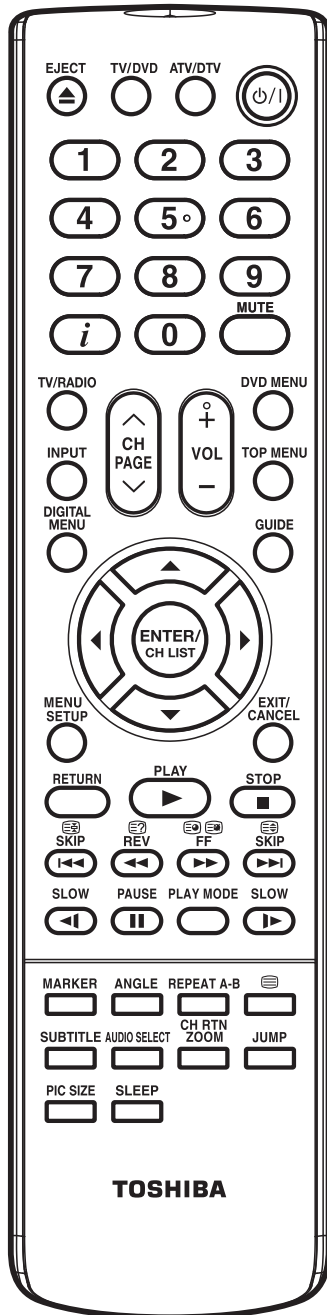


Description of indicators and controls

1. **Remote sensor**
2. **⏻/I POWER indicator:** The Power indicator lights up red in standby mode, orange in standby mode when the timer is activated, and green when TV is powered on.
3. **Loudspeakers**
4. **▲ EJECT button:** Ejects a disc.
5. **▲/▼ VOLUME + / - buttons:** Adjust the volume level. In Menu: Setting.
6. **▶ PLAY button/ [P] CHANNEL ▲ button:** Press ▲ to change to a higher numbered channel set into memory. In DVD mode: Playback. In Menu: Setting. In Standby mode: Turns the TV on.
7. **■ STOP button/ [P] CHANNEL ▼ button:** Press ▼ to change to a lower numbered channel set into memory. In DVD mode: Stop. In Menu: Setting. In Standby mode: Turns the TV on.
8. **MENU button:** Displays the Main Menu screen.
9. **Ⓜ INPUT/ENTER button:** Select video input source. In Menu: Use as an **ENTER** button to confirm selection.
10. **⏻/I TV button:** Preparation: Connect the power cable to 230V/50Hz AC outlet.
 - a) If standby-LED is red, you may turn-off. To turn-off, press TV button 1x and release. For confirmation, standby-LED will turn off.
 - b) If standby-LED is off, you may turn-on. To turn-on, press TV button 1x and release. For confirmation, standby-LED will change to red and about 1 second later to green.
 - c) If the TV is currently working, press TV button 1x and release to turn-off. For confirmation, standby-LED will turn off.

In TV-off-condition, the unit cannot be power-on by pressing Ⓜ on the remote control.
In TV-off-condition, the TV's power-consumption is approx. 1 Watt.
If total disconnection from the mains power is required, please unplug the mains lead.

Remote control



	Function	Page
EJECT	Eject a disc	35
TV/DVD	Select to operate TV/DVD	11, 34
ATV/DTV	Switches between the analogue TV and the digital TV	11
(Power)	Enter standby mode or turn on the power	10
0 ~ 9	Select channel Select Teletext page Enter password	17 19 25, 55
i	Display source information	18, 32
MUTE	Turn the sound on/off	17
TV/RADIO	Toggle between TV, Radio, and Data mode	17
INPUT	Select an input source	13
CH PAGE	Change the TV channel or Teletext page up or down In Standby: Turn on the power	17, 19 11
VOL	Volume	17
DVD MENU	Select menu of a DVD disc	40
TOP MENU	Select title of a DVD disc	40
DIGITAL MENU	Activate the Digital Main Menu	11
GUIDE	Display the EPG (Electronic Program Guide)	31
(Cursor buttons)	Cursor buttons	10
ENTER/CH LIST	Memorize Teletext page 100 CH LIST	10 19 17
MENU SETUP	Call the DVD Setup menu Activate the Analogue Main Menu	49 11
EXIT/CANCEL	Exit the Analogue or Digital Main Menu screen Cancel marking	10 38
RETURN	Exit the DVD Setup Menu screen	49
PLAY	Play	34
STOP	Stop	34
SKIP	Hold the text page Skip chapter to reverse direction	19 36
REV	Reveal quiz page answers Review playback	19 36
FF	Subpage selection Forward playback	19 36
SKIP	Teletext enlargement Skip chapter to forward direction	19 36
FAST/TOPTXT	Fasttext/TOPtext buttons DVD control buttons	19 36, 39
MARKER	Marking desired scenes	38
ANGLE	Change playback angle of a DVD disc	40
REPEAT A-B	Repeat playback between A and B (DVD/CD)	39
TE	Teletext on/off	19
SUBTITLE	Display the subtitle	30, 41
AUDIO SELECT	Select between the available broadcast audio Display the multi audio menu Change sound track language of DVD	20 29 41
CH RTN	Switches between the present channel and the last selected channel Zoom (for DVD playback)	17 37
JUMP	Locating desired scene	37
PIC SIZE	Select picture format	21
SLEEP	Sleep Timer	18

Remote control (continued)

Install the batteries

Use batteries type UM4/R03 (AAA-Size).

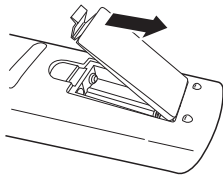
Notes:

- Exhausted batteries can leak corrosive electrolyte, which may cause damage to the remote control - therefore remove exhausted batteries immediately.
- Do not use old or weak batteries. The remote control may not work properly with a weak voltage from such batteries. Replace exhausted batteries with new ones. Never try to recharge normal batteries - this could cause an explosion.
- Dispose of batteries in a designated disposal area.

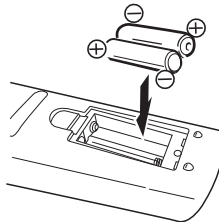
Warnings:

- Never throw batteries into a fire.
- Never expose batteries to excessive heat such as sunshine, fire or the like.

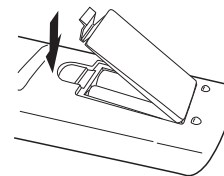
1 Open the battery compartment cover in the direction of the arrow.



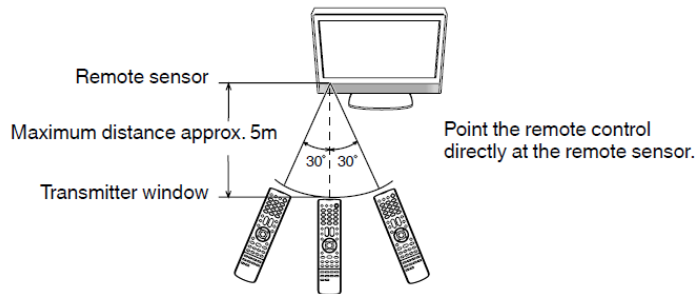
2 Install the batteries as shown below, ensuring the correct polarity.



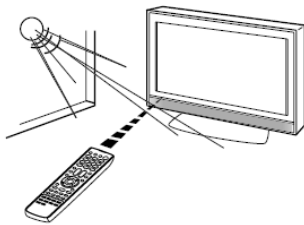
3 Close the battery compartment.



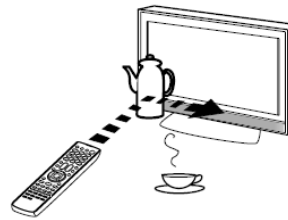
Distance of remote control operation



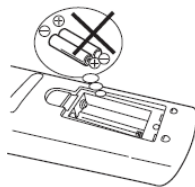
The remote control handset will not work properly in the following cases:



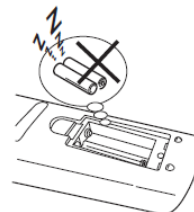
If bright sunlight directly beams onto the unit front.



If an obstacle is placed between the unit and the handset.



If the batteries have not been installed according to their polarities.



If the batteries are weak.

Aerial connection

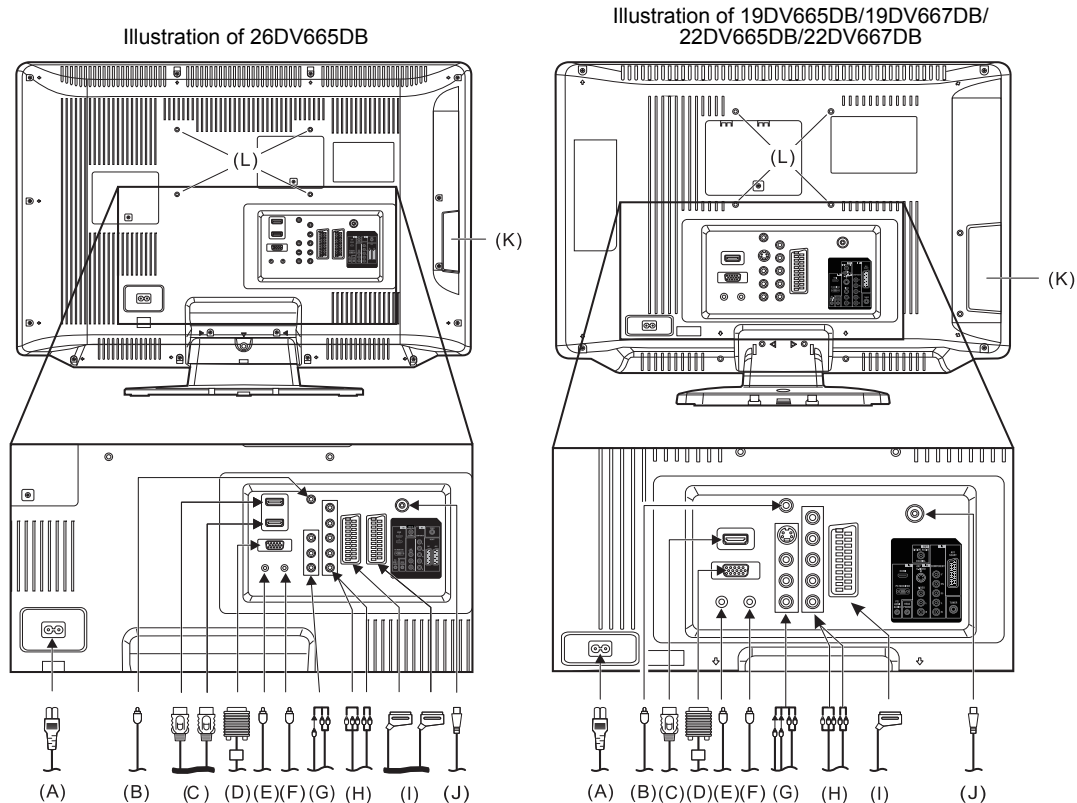
Note:

Before you connect other appliances:

- To avoid potentially damaging your set, make sure all items are switched off and disconnected from the mains power when you make the connections.
- Arrange the desired connection.
- When you have finished making the connections, reconnect the mains power to the unit and switch it back on.

Connect your aerial as shown below. Connections to other equipment is explained further on pages 56 ~ 59.

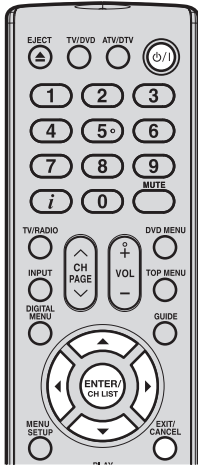
If you have problems with reception, consult a TV antenna installer.



- (A) **AC input:** Connect the supplied power cable to an AC 110 ~ 240V/50Hz mains power supply only - do not attempt to connect it to any other type of supply. Never try to repair a damaged AC power cord with isolation-tape - this should be repaired by a specialist or replaced. Do not let your pet loose near the cable. Animals biting into the cable could receive a fatal electric shock, and could cause a hazard to others.
- (B) **COAXIAL DIGITAL AUDIO output:** Digital output for CD/DVD & DVB-T (see page 58).
- (C) **HDMI input (19/22 inch):** See page 56 ~ 57.
- HDMI1/HDMI2 input (26 inch):** See page 56 ~ 57
- (D) **PC MONITOR input (PC):** See page 56.
- (E) **PC/HDMI AUDIO input:** See page 56 ~ 57.
- (F) **HEADPHONE jack:** Plug headphones with a mini plug (3.5 mm) into this jack.
- (G) **AV2 (S-VIDEO, VIDEO, Audio L/R) input (19/22 inch):** Input for analogue A/V-Signal (Composite/S-Video). See page 59.
- AV3 (VIDEO, Audio L/R) input (26 inch):** See page 58, 59.
- (H) **COMPONENT input:** See page 59.
- (I) **AV1 (SCART) socket (19/22 inch):** For the connection of SCART cable. See pages 58.
- AV1/AV2 (SCART) socket (26 inch):** See pages 58 ~ 59
- (J) **Aerial input socket:** Connect the outdoor aerial to the aerial input socket (see page 58).
- (K) **C.I. slot:** The Common Interface allows you to insert CAM (Conditional Access Module) and a suitable Smart Card to give you access to additional Pay-TV services. (See page 28) Before inserting the module, make sure to turn off the main power and then insert the module all the way into the slot until it is flushed with the side panel buttons.
- (L) **Bracket holes:** Fix a wall mounting bracket (not supplied) here.

Auto setup

Your unit has an Automatic installation routine which makes installation in your unit easy. When you turn on the unit for the first time, the Automatic installation routine is activated. Using this routine, you can select the on-screen language, and automatically search for and store all the receivable analogue and digital (DVB) channels. The Automatic station presetting feature is for the set's built-in tuner only. If you have a device such as a digital decoder (e.g., Satellite or Digital Terrestrial) connected (see page 58), you would need to tune it in separately according to its own instructions.



Note:

- To cancel the Auto Tuning, press **EXIT/CANCEL** during the process.

The Automatic tuning process is only available the first time you turn on the TV/DVD. However you can restart this process using the Main Menu (see page 14).

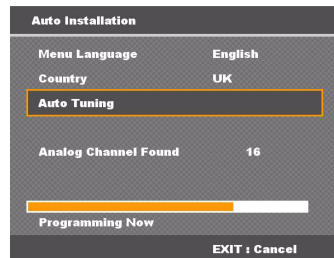
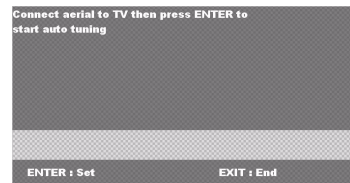
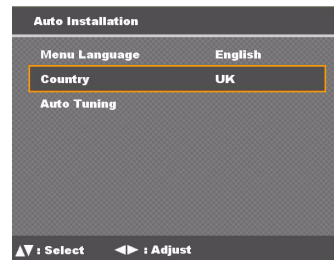
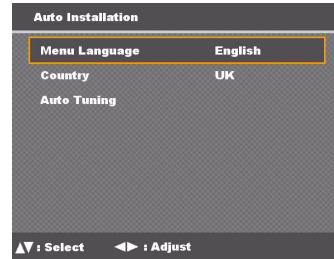
Preparation:

- Press **⏻/⏻** on the unit.
The Auto Installation menu will appear.
- Press **▲/▼** to select "Menu Language", then press **ENTER/CH LIST**. Press **◀/▶** to select desired language.
- Press **▲/▼** to select "Country", then press **ENTER/CH LIST**. Press **◀/▶** to select your country.
- Press **▲/▼** to select "Auto Tuning", then press **ENTER/CH LIST**.
- Press **ENTER/CH LIST** again.
A message prompt appears with option to connect aerial to TV.
- Press **ENTER/CH LIST** to start auto tuning.
The system begins to search programmes.
Your TV will now scan or auto-tune for all available channels.
Your TV will tune analogue channels first, then tune the digital channels.

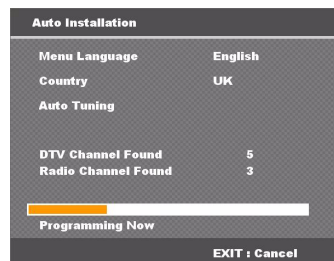
Note:

- Please be patient - the Auto Tuning process can take several minutes to complete.

Once the auto channel search is completed the programme on the screen stops changing and the sound comes on, the search process is complete.



(Analogue)



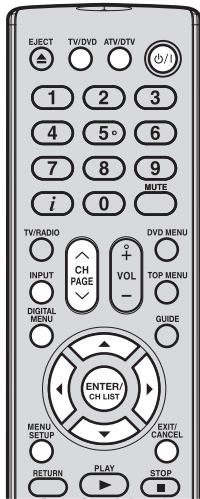
(Digital)

Quick guide for menu operation

Make sure the aerial connection and power supply are connected as per the description on page 9.

Preparations:

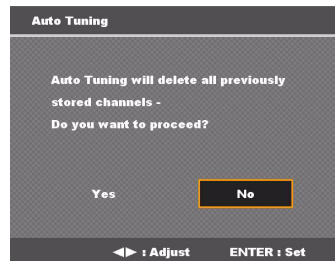
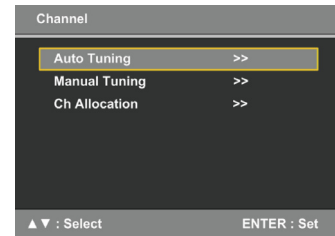
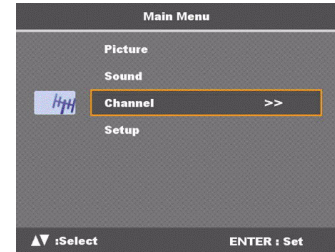
- Turn on the unit with the **⏻/I** button on the unit. The **⏻/I** power indicator will light up in green. To change the unit to standby mode, press **⏻/I** on the remote control. Power indicator will change from green to red. To turn on the unit from standby mode, press **⏻/I** on the remote control again. In standby mode, you can also turn the unit on with **P** **^**/**∨** on the unit or **CH** **^**/**∨** on the remote control. To turn off the unit press **⏻/I** button on the unit - to completely switch it off, disconnect the mains power supply. **TV/DVD** **⊙** to select the TV mode.
- Press **TV/DVD** **⊙** to select the TV mode.
- Press **ATV/DTV** **⊙** to toggle between analogue TV or digital TV mode.



Quick guide for menu operation

Launch the Main Menu screen. For example: Select Auto Tuning.

- 1 Press **INPUT** **⊙**. Select "ATV", then press **ENTER/CH LIST** **⊙**.
- 2 Press **MENU SETUP** **⊙** in ATV (analogue TV) mode or press **DIGITAL MENU** **⊙** in DTV (digital TV) mode to display the Main Menu screen. When **DIGITAL MENU** **⊙** is pressed in ATV mode, it will automatically switch to DTV mode. And it is possible to use **MENU SETUP** **⊙** in DTV mode.
- 3 Press **▲/▼** to select "Channel", then press **ENTER/CH LIST** **⊙**.
- 4 Press **▲/▼** to select "Auto Tuning", then press **ENTER/CH LIST** **⊙** to enter the Auto Tuning menu.
- 5 Press **◀/▶** to select your country, then press **ENTER/CH LIST** **⊙**.
- 6 Press **▲/▼** to select "Start", then press **ENTER/CH LIST** **⊙**. A message prompt will appear with option to delete previously stored channels.
- 7 Press **◀/▶** to select "Yes" or "No", then press **ENTER/CH LIST** **⊙**.



Notes:

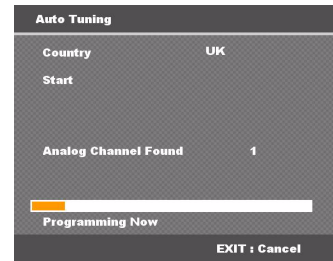
- If no buttons are pressed after approximately 60 seconds, the Main Menu screen disappears.
- Press **EXIT/CANCEL** **⊙** to exit the Main Menu screen.

Quick guide for menu operation (continued)

The Auto Scan process will now begin.
A progress bar appears to indicate scanning progress.

Note:

- ...on the following pages the Main Menu screen can be called in the same way as here.



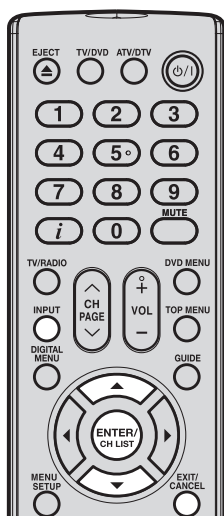
(Analogue)





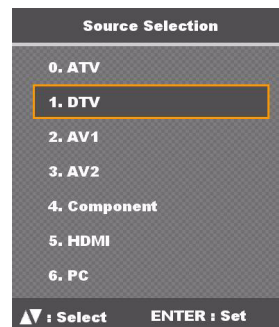
(Digital)

Selecting the video input source

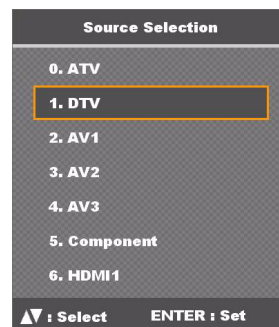
Selecting the video input source



- 1 Press **INPUT**  to view a signal from another device connected to your TV, such as a VCR or DVD player.
You can select each input source depending on the input jack used to connect your devices.
- 2 Press **▲/▼** or the corresponding number on the screen to select a video input source, then press **ENTER/CH LIST**  within 5 seconds.



(19DV665DB/19DV667DB/
22DV665DB/22DV667DB)

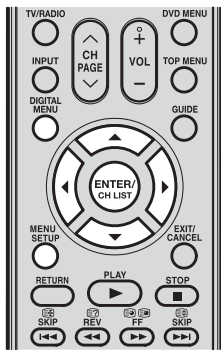


(26DV665DB)

Notes:

- If no buttons are pressed after approximately 5 seconds, the Main Menu screen disappears.
- All the channels will be deleted before the scanning process begins.
- You can cancel the scan process at any time by pressing **EXIT/CANCEL**. The carriers and the services stored before **EXIT/CANCEL** is pressed will be stored.



Automatic station presetting with the built-in Tuner






Automatic station presetting with the built-in Tuner

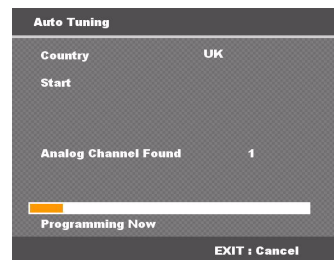
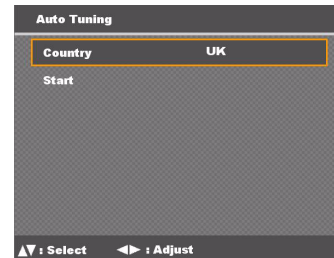
Perform this feature to search for and store new analogue and digital TV programmes after the Automatic installation (see page 10).

Preparation:

Make sure your antenna is connected to the aerial input (see page 9). Select ATV or DTV (see page 11), then press **MENU SETUP**  or **DIGITAL MENU** .

- 1 Press **▲/▼** to select "Channel", then press **ENTER/CH LIST** .
- 2 Select "Auto Tuning", then press **ENTER/CH LIST** .
- 3 Select "Country", then press **◀/▶** to select your country.

- 4 Select "Start", then press **ENTER/CH LIST** . The automatic tuning will search for available broadcasts and should store the channels in the correct order. During the search the sound is muted. When all programmes have been stored, the normal TV screen will appear.



(Analogue)

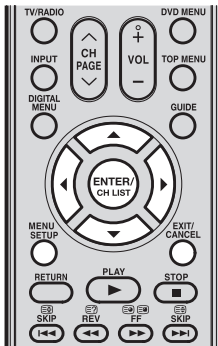


(Digital)

Changing the order of stored channels

Changing the order of stored channels

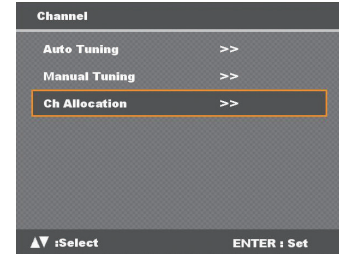
The Automatic station presetting stores the stations in a specific order. However, this order can be changed if you wish.



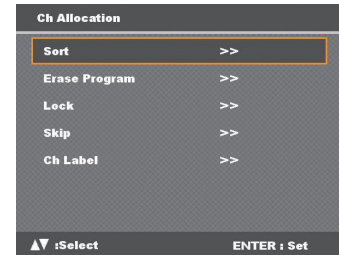
Note:

- When changing the order of the channels, it is best to start with Ch1.

- 1 Press **▲ / ▼** to select "Ch Allocation", then press **ENTER/CH LIST**.



- 2 Select the desired option, then press **ENTER/CH LIST**.



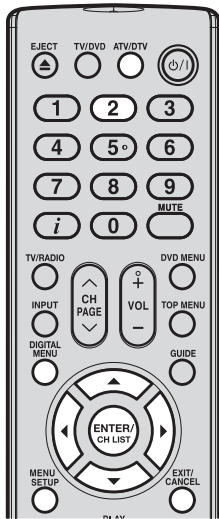
- 3 After setting each option, press **MENU SETUP**.
- 4 Press **EXIT/CANCEL** to return to the normal screen.

Description about each setting option:

- Sort:** Press **▲ / ▼** to select the channel that you want to move, then press **ENTER/CH LIST**. Press **▲ / ▼** to select the position that you want to move the channel to, then press **ENTER/CH LIST**.
- Erase Program:** Press **▲ / ▼** to select the channel that you want to erase, then press **ENTER/CH LIST**.
- Lock:** This feature enables you to lock any channel you choose by pressing **ENTER/CH LIST**, then enter the parental lock password. If you have not set the parental lock password, you can use the initial password '0000'.
- Skip:** Press **▲ / ▼** to select the channel that you want to skip, then press **ENTER/CH LIST**. A * mark will appear.
- Ch Label:** Press **◀ / ▶** to enter a suitable label for a selected channel, then press **▼**. Press **◀ / ▶** to select character, then press **ENTER/CH LIST**. The cursor will move to the next position. Press **ENTER/CH LIST** to set the channel label.

Manual TV station presetting

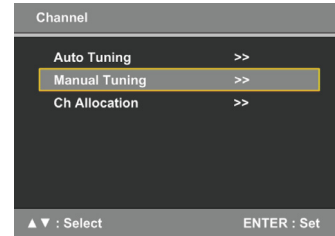
If you like, you may manually tune a certain station into a selected programme position, without deleting or modifying program position's contents. The presetting applies to both analogue and digital TV. Press the **ATV/DTV** button to enter ATV or DTV mode then follow the steps to set the TV stations manually.



Preparation:

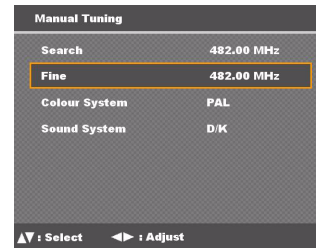
Connect the aerial cable. Select programme position "2". Press **2**, OSD will indicate '2' in left upper corner. Eventually recently stored TV-channel's name might also appear.

- 1 Press **MENU SETUP** or **DIGITAL MENU** to display the Main Menu screen.
- 2 Press **▲ / ▼** to select the "Channel" menu, then press **ENTER/CH LIST**.
- 3 Press **▲ / ▼** to select the "Manual Tuning" menu, then press **ENTER/CH LIST**.



4 In ATV mode:

- (1) Press **▲ / ▼** to select "Search", then press **◀ / ▶** to start tuning. Tuning will stop automatically at next received station.
- (2) If you like to use fine-tuning, select "Fine". Press **◀ / ▶** to fine tune. See the note on this page.



Note:

- Usually fine tuning is not necessary, due to tuning's automatically stopping at the very best position. If you fine-tune anyway, proper working of teletext-reception with built-in tuner is no longer guaranteed.

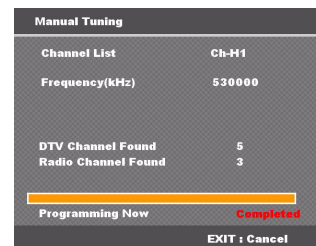
- (3) To select a colour system for your TV, select "Colour System". Press **◀ / ▶** to select "Auto", "PAL" or "SECAM". PAL should be selected for use in UK.
- (4) To select a sound system, select "Sound System". Press **◀ / ▶** to select "Auto", "B/G", "I", "D/K" or "L/L".

In DTV mode:

You can select a channel number for the Channel List by pressing **◀ / ▶**. The corresponding tuning frequency for the channel will be set. Or, you can enter a frequency value to start tuning.

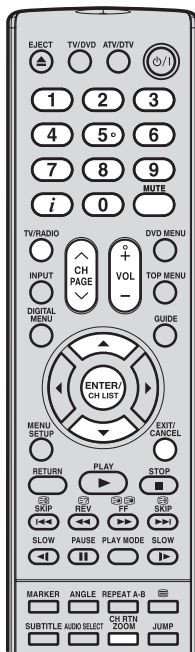
After setting the channel, press **ENTER/CH LIST** to start scanning for channels.

A progress bar appears to indicate scanning progress and a list of the services collected from the channel will be listed.



- 5 Press **EXIT/CANCEL** to return to the normal screen.

Basic operation



Channel selection

Use the **0 - 9** numbered buttons.

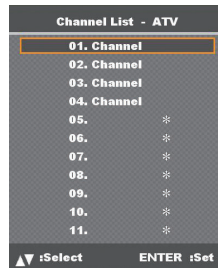
Example:

- No. 2: Press **0** and within 2 seconds, press **2**.
- No. 29: Press **2** and within 2 seconds, press **9**.

(1) Press **CH** \wedge / \vee to select a channel. This takes approx. 2 seconds. If the auto search only stored 5 stations, only these 5 will appear. Skipped channels will not appear (see page 15).

The Channel List shows a list of all receivable programmes. They are located in channels 1 to 99 for ATV mode and 1 to 999 for DTV mode.

(2) Press **CH LIST** $\text{\textcircled{ENTER/CH LIST}}$ to display the Channel List.



Analogue Channel List



DTV Channel List

(3) Press \blacktriangle / \blacktriangledown to select the desired channel, then press **ENTER/CH LIST** $\text{\textcircled{ENTER/CH LIST}}$ to display the selected channel.

(4) Press **EXIT/CANCEL** $\text{\textcircled{EXIT/CANCEL}}$ to exit.

Toggle between the list of TV, Radio, and Data services (DTV mode only)

(1) Press **TV/RADIO** $\text{\textcircled{TV/RADIO}}$ to switch between the TV, Radio, and Data mode.

(2) If you press **ENTER/CH LIST** $\text{\textcircled{ENTER/CH LIST}}$ when you are in Radio mode the channel list menu will display the list of Radio services.

If you wish to view the list of Data services without exiting the current menu, press

TV/RADIO $\text{\textcircled{TV/RADIO}}$ once.

If you wish to view the list of TV services without exiting the current menu, press

TV/RADIO $\text{\textcircled{TV/RADIO}}$ again.

QuickView

Press **CH RTN ZOOM** $\text{\textcircled{CH RTN ZOOM}}$ to go back to the last selected channel.

Volume adjustment

Press **VOL +/-** to adjust the volume level. The volume level indicator shows the current volume level. The indicator will disappear after 4 seconds of inactivity.

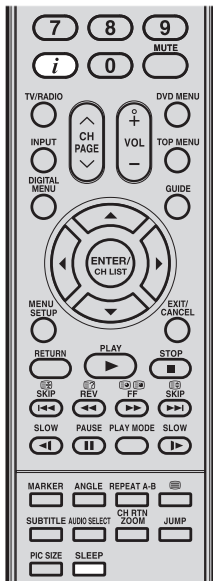
Mute

Press **MUTE** $\text{\textcircled{MUTE}}$ to switch off the sound. The TV/DVD's sound will be turned off and "Mute" will appear on-screen. Press **MUTE** $\text{\textcircled{MUTE}}$ again or **VOL +/-** to turn the sound on.

Notes:

- If the built-in tuner does not receive anything (e.g., if no antenna is connected) during TV-operation, the TV-unit will change to standby after approx. 15 minutes.
- This unit only support NorDig Version 2.0 data service.
- Press **TV/RADIO** $\text{\textcircled{TV/RADIO}}$ to switch between three service categories — TV, Radio, and Data.

Basic operation (continued)



Information display

In ATV mode:

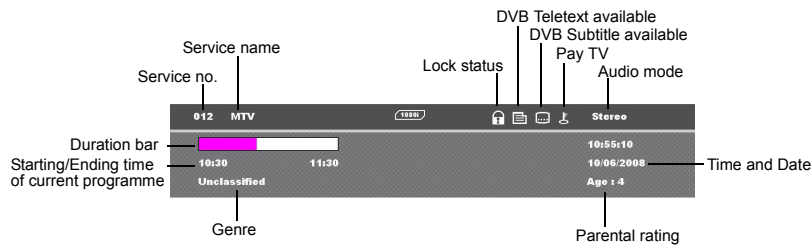
Press **i** to display the Channel number and sleep timer information on the screen. Current settings for the sound mode, picture size, and resolution (if in use) are also displayed. The information will appear for approx. 5 seconds.



In DTV mode:

When you switch channels, a channel banner is displayed for a few seconds. The channel banner shows information such as current date and time, DTV channel number, station, and messages from the DTV service providers, etc.

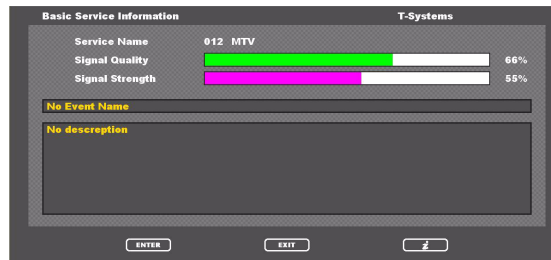
- (1) While watching a programme, press **i** to display the Channel banner. The channel banner will disappear after a set time. You can change how long the channel banner is displayed, see page 24 for details.



Notes:

- In the Basic Service Information screen, the Channel/Service names, appear in full not abbreviated.
- Subtitles are displayed on the channel banner. Some broadcasts may not provide this service.

- (2) Press **i** again to display the Basic Service Information screen. You can verify the signal strength and quality of the selected service here. If necessary, adjust the direction of the antenna to obtain the maximum signal strength. A short event description of an event can also be viewed here. For an extended description of an event, you can view it in the EPG menu (see page 31).



- (3) Press **i** to remove the channel banner.

Sleep timer

Press **SLEEP** to set the TV/DVD to turn off at a preset amount of time. The clock will count up 10 minutes for each press of the **SLEEP** button (Off, 0h 10m, 0h 20m, ..., 2h 0m).

After the sleep setting is programmed, the display will begin 30 seconds in advance to remind you that the sleep timer is enabled.

To confirm the sleep timer setting, press **SLEEP** and the time remaining is displayed for a few seconds. To cancel the sleep timer, press the **SLEEP** button repeatedly until 'Off' appears.

Teletext is sent page by page. This unit is able to automatically store up to 256 pages, but they can only be accessed once they have been stored. This can take a few moments.

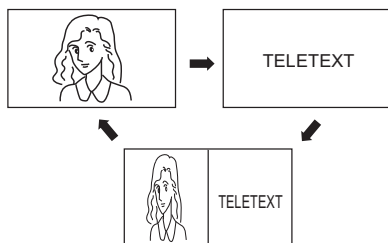
Fastext/TOPText

The Fastext/TOPText is teletext with a special directory. On the lower part of the screen there are four different coloured fields (red, green, yellow, and blue). These fields lead directly to the pages shown within. The coloured buttons on the remote control correspond to the coloured fields. Press the appropriate coloured button in order to activate the desired colour field.

Switch Teletext on/off

Teletext is not transmitted by all channels.

- (1) Select a channel that shows teletext.
- (2) Press . You will now see a teletext page. (If '100' is shown without any text information, it may mean that the channel you have selected does not support teletext.)
- (3) Press again to switch to split TV-teletext display mode. You will now see both the teletext page and the TV program.
- (4) Press once more to close the teletext screen.
- (5) Press again in order to switch teletext on. The last page which was stored is now shown.



Note:

- You cannot select any other channels as long as teletext is switched on. Switch teletext off when you want to switch over to another channel.

Select Page

Press **CH** / until the page you desire appears. Or ... use the **10 Number Buttons** to enter the page number.

If you mistyped something, just enter the complete 3-digit wrong page number then enter the desired number again. Or ... press one of the coloured teletext buttons so the page from Fastext/TOPText will be shown.

Hold Pages

Some pages are divided up into subpages by the channel.

Subpages are automatically shown in turn, as they are transmitted. In order to hold the page, press .

Press again in order to display the next subpage.

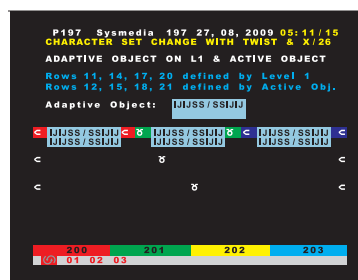
Directly Select Subpages

Subpage numbers are displayed below the coloured bar. Press / to select a subpage. Or, highlight the '' option to display subpages as they are transmitted. You can directly select the subpages if required.

Example:

On the screen below, page 197 offers the subpages service. At the bottom of the screen the subpages (01/02/03), available for page 197, are displayed.

To select a subpage:



- (1) Press in order to select 01 subpage.
- (2) Press again in order to switch to the 02 subpage.
- (3) Press once more to switch to the 03 subpage.

Enlargement

Press to enlarge the display.

Either the upper or lower half of the screen is enlarged.

Each time you press to toggle between half screen or full screen display.

Answering Quiz Questions

Some pages contain quiz questions with concealed answers.

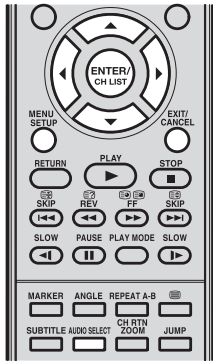
Press in order to show the answers.

Page 100




Press **ENTER/CH LIST** in order to show page 100.

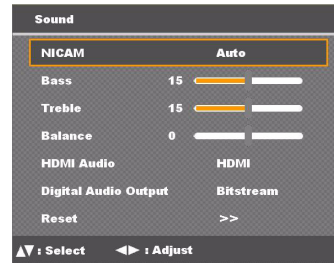
Stereo reception with the built-in analogue tuner

The built-in tuner can detect and receive NICAM stereo broadcasts automatically.



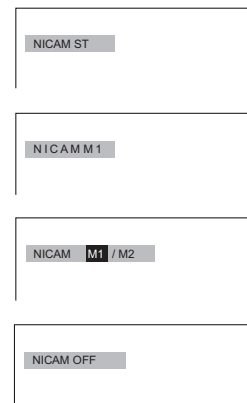
NICAM stereo sound reception

- 1 Press **MENU SETUP**  to display the Main Menu screen. Press **▲ / ▼** to select "Sound", then press **ENTER/CH LIST** .
- 2 Select "NICAM", then press **◀ / ▶** to select "Auto" or "Off". Select "Off" if you do not want to receive NICAM sound.
- 3 Press **EXIT/CANCEL**  to return to the normal screen.



The following types of broadcast are possible with NICAM transmissions


- **NICAM ST:** Illuminates for approx. 4 seconds when a NICAM STEREO broadcast signal is received.
- **NICAM M1:** Illuminates for approx. 4 seconds when a NICAM MONO A broadcast signal is received.
- **NICAM M1/M2:** Illuminates for approx. 4 seconds when a NICAM MONO A and MONO B broadcast signal is received.
- **NICAM OFF:** This will be displayed for approx. 4 seconds if a NICAM signal is received when the 'NICAM Off' option is selected.




Stereo reception in Germany

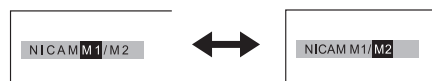
STEREO illuminates for approx. 4 seconds when a STEREO broadcast signal is received.



When 2-channel sound reception is available, you can select your preferred audio with the **AUDIO SELECT** .

Each time you press **AUDIO SELECT** , the sound channel will switch to the alternative channel available.

NICAM 2-channel sound reception (not available in Germany)

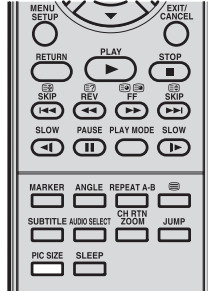


2-channel sound reception in Germany




Picture format


The broadcaster may transmit a Wide Screen Signaling (WSS) signal which can determine the correct picture width and set it automatically when the 'Auto' setting is used. If you want to change this setting, you can select from the formats listed below.



Auto picture size

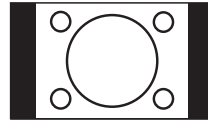
Press **PIC SIZE**  repeatedly until 'Auto' appears on-screen.

Picture format setting

Press **PIC SIZE**  repeatedly to scroll through the following options.

4:3

This mode shows a picture in the standard 4:3 size with black side bars.

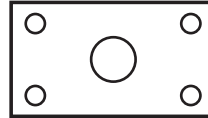


Notes:

- When the picture size is set to Auto mode, the aspect ratio will automatically change according to the WSS signal, if it is available. This may either be transmitted by the broadcasting TV channel, or via a recording from a VCR etc. Any WSS signal received will only be effective in Auto mode - however, some DVD players/Digital Decoders etc. will automatically switch the aspect ratio via a SCART input (Pin 8 switching), even if Auto is not selected. In any case, if you want to change to a different aspect ratio to the one selected automatically, you can change it by pressing **PIC SIZE**.
- In PC mode, the picture size settings is available only for 16:9 or 4:3 format.
- In HDMI or Component mode of scanning rate: 720p and 1080i, the picture size settings is available only for 16:9 or Real (HDMI mode only) format.

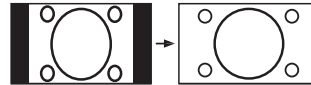
Real (HDMI mode only)

This picture is displayed with original size.



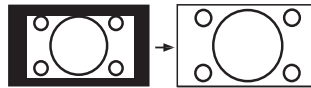
16:9

This mode is used with 16:9 signals from a Digital decoder, DVD player or other external source. The picture is uniformly stretched – a 4:3 image is horizontally stretched to fill the screen (For example, a 16:9 image is often stored 'anamorphically' on a DVD, where the 16:9 image is stored as a horizontally compressed 4:3 image – this mode restores the image to its correct 16:9 proportions).



Cinema

This mode is used to zoom-in on (expand) 4:3 'letterbox' format pictures (with black side bars on the top and bottom of the picture) so that they fill more of the screen.



Note:

- In the Cinema mode, part of the picture may be slightly cut off due to the expansion. However, it is possible to scroll the picture up or down to view the top or bottom part of the picture.




14:9

This mode enlarges a standard 4:3 picture to the 14:9 format.



Other convenience functions

You can change the default settings to convenience use.





Main menu	Selected items		Setup hint
Picture 	Picture Setting	Brightness/ Contrast/ Sharpness/ Colour/ Tint	You can adjust the picture to your preference. The 'Tint' option can be selected if an NTSC 3.58 MHz or NTSC 4.43 MHz signal is input through one of the AV inputs, and NTSC or Auto has been selected for the AV Colour option.
		Colour Temperature	Cool/Standard/Warm
		Backlight	You can use the Backlight feature to adjust the screen brightness for improved picture clarity.
	Picture Preference	Standard	Standard picture quality
		Movie	Movie-like picture setting
		Memory	Your personal preferences
		Sports	Bright and dynamic picture
	Picture size	Auto/ 4:3/ Real/ 16:9/ Cinema/ 14:9	You can choose from six picture formats to view programmes.
	Blue Back	On/Off	You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent.
	PC Setting* ¹	Hor Position	Adjust the image position horizontally.
		Ver Position	Adjust the image position vertically.
		Clock	Minimize any vertical bars or stripes visible on the screen background.
		Phase	This must be adjusted if the PC mode frequency has been set to 60 Hz. This will optimize picture quality.
		Auto Adjust	Adjust all the PC settings automatically.
DNR* ²	On/Off	Sometimes it is not possible to input a high-quality HD signal. The actual signal input is too small and noisy (e.g., a video film in letterbox format, or a noisy analogue cable TV signal). DNR can slightly reduce interferences caused by the faulty input signal.	
Reset		Select "Reset" to reset Picture Setting to the factory preset values.	
Sound 	NICAM	Auto/Off	See page 20.
	Bass/Treble/Balance		You can adjust the sound quality to your preference.
	HDMI Audio (19DV665DB/19DV667DB/ 22DV665DB/22DV667DB)/ HDMI1 Audio (26DV665DB)		See page 56 ~ 57.
	Digital Audio Output	Bitstream/PCM	You can select "Bitstream" when AC3 format is available or select "PCM" for other audio format.
	Reset		Select "Reset" to reset Sound settings to the factory preset values.
Channel 	Auto Tuning		See page 14.
	Manual Tuning		See page 16.
	Ch Allocation		See page 15.

*1 The PC Setting option can be configured only when the TV tuner input is set to PC mode.

*2 In PC mode, the DNR option cannot be selected.

Other convenience functions (continued)

You can change the default settings to convenience use.

Main menu	Selected items		Setup hint
Setup 	Language Setup	Menu Language	Select a display language.
		Pref. Audio Language	Select an audio language (DTV mode only).
		Pref. Subtitle Language	Select a subtitle language (DTV mode only).
		Pref. Digital Service Language	Select a digital service language (DTV mode only).
	Audio Description	AD Enable (On/Off)	You can set to receive audio description service to have narration of selected programs.
		AD Volume	Adjust the audio description volume.
	Timer Setting* ¹		View the current date and time settings. See page 24.
	Password Setup* ²		Set password for TV programmes and movies. See page 25.
	Version		View the software version information. See page 26.
	Software Upgrade		See page 27.
	Common Interface		See page 28.
	Vertical Position		Press ◀ / ▶ to adjust the vertical position of the picture by up to +10 and downwards by up to -10.
	Auto 4:3 Default* ³	4:3/16:9	This option selects the default way that a 4:3 signal is shown - either as normal '4:3' or expanded in the '16:9' mode, according to your preferences.
	Display Setup* ²		See page 24.
	Auto Shut Off	On/Off	This option automatically shuts the TV off after 15 minutes of non-operation when the last viewed TV channel stops broadcasting.
AV Colour* ⁴	Auto/ PAL/ SECAM/ NTSC4.43/ NTSC3.58/ PAL60	The AV Colour setting only applies when viewing devices connected to the AV inputs.	
Rec Screen Status	On/Off	This function is used in conjunction with the Timer function that is included as part of the Digital EPG. It determines whether the TV screen switches on or not when a programmed Timer setting begins. See page 32 for further details.	
Reset		Select "Reset" to reset TV settings to the factory preset values. (1) Press ENTER/CH LIST  to enter the Reset TV setting screen. (2) Press ◀ / ▶ to select "Yes", then press ENTER/CH LIST  . (3) Reset the TV function will now begin, and this unit will automatically turn off. As the power is not automatically turned on, press  to watch TV.	

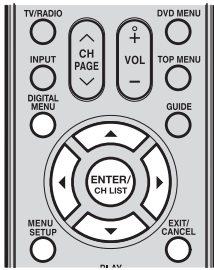
*1 Timer Setting option can be configured only when the TV tuner input is set to DTV mode.

*2 The Password Setup and Display Setup option can be configured only when the TV tuner input is set to DTV mode.





*3 Auto 4:3 Default is available only for Auto picture size setting.
In Component mode, Auto 4:3 Default is available only for 480i/576i mode.

*4 PAL 60 used in Germany handled video recorders, which plays NTSC video tape recording. If the picture shows horizontal stripes, set to Auto.

Display setup/Timer setting (DTV mode only)



Display Setup

- 1 Press **DIGITAL MENU**  or **MENU SETUP**  to display the Main Menu screen.
- 2 Press **▲ / ▼** to select "Setup" menu, then press **ENTER/CH LIST** .
- 3 Press **▲ / ▼** to select "Display Setup", then press **ENTER/CH LIST** .
The Display Setup menu appears.







- 4 Press **▲ / ▼** to select an item, then press **◀ / ▶** to change each setting.

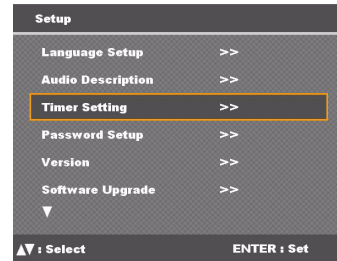
Banner Timeout	1 sec, 2 sec... 7 sec.	Select how long the service banner information appears on the screen.
Banner Position	Top Bottom	Select whether the service banner information appears on the top or bottom of the screen.

- 5 After all the changes are made, press **EXIT/CANCEL**  to return to the normal screen.

Timer Setting

If the time displayed on the Channel banner differs from the actual time, it can be corrected.

- 1 Press **DIGITAL MENU**  or **MENU SETUP**  to display the Main Menu screen.
- 2 Press **▲ / ▼** to select the "Setup" menu, then press **ENTER/CH LIST** .
- 3 Press **▲ / ▼** to select "Timer Setting", then press **ENTER/CH LIST** .



- 4 If the time displayed on the Channel banner differs from the actual time, adjust the time offset with the **◀ / ▶** button until the correct time is shown.

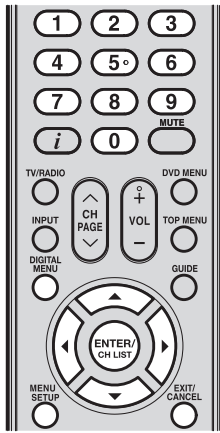
Note:

- Normally, this would be done by selecting "Auto".







- 5 After all the changes are made, press **EXIT/CANCEL**  to return to the normal screen.

Password setup (Parental lock) (DTV mode only)



Password Setup (Parental lock)






This feature allows you to have a parental control of the service viewing as per your preference. Once a service is protected with a password, it cannot be viewed unless the correct password is provided.

- 1 Press **DIGITAL MENU**  or **MENU SETUP**  to display the Main Menu screen.
- 2 Press **▲ / ▼** to select the "Setup" menu, then press **ENTER/CH LIST** . Press **▲ / ▼** to select "Password Setup", then press **ENTER/CH LIST** . The Enter Password window appears.



Notes:

- There are 15 age-based ratings, ranging from '4' (years old) to '18' (years old), 'None' and 'Block All'. (E.g., If the Parental Lock is set to '8' (years old), only the services which have the parental rating of '8' (years old) or under will be viewable without entering the Password.)
- You will be prompted to enter the password, when you set new parental rating. You can set the new parental rating only when you enter the password correctly, otherwise the old parental code will be retained.

- 3 Use the **Number buttons (0 – 9)** to key in "0000". This is the factory default password.
- 4 Press **▲ / ▼** to select "Parental Lock", then press **ENTER/CH LIST** . Press **◀ / ▶** to select a desired parental rating, then press **ENTER/CH LIST** . See Notes. Press **EXIT/CANCEL**  to return to the normal screen.
- 5 You can also change the password using the Change Password option. Press **▲ / ▼** to select "Change Password", then press **ENTER/CH LIST**  and enter a new password (0 to 9). Make sure to remember this password. Re-enter the same password again for confirmation. Press **EXIT/CANCEL**  to return to the normal screen.

While toggling between channels, if a service which has a parental rating is selected, then you will be asked to enter the correct password to view that channel. If the channel you are currently watching supports a parental rating, then the rating will also be displayed in the Channel banner menu (see page 18).

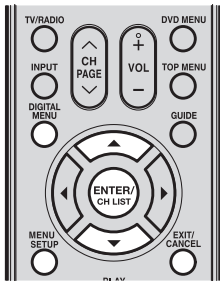
IMPORTANT NOTE ON RESETTING THE PASSWORD

We suggest that you remove the following instruction from the operating instructions to prevent children from reading it.

If you forget your password, follow instruction below to reset the password.

Press **i** 4 times within 5 seconds while the TV is in password input mode. This allows you to reset your password.

Version







Note:

- Version check also applies to ATV mode.

Version

You can check the software version information.

- 1 Press **DIGITAL MENU**  or **MENU SETUP**  to display the Main Menu screen.
- 2 Press **▲ / ▼** to select the "Setup" menu, then press **ENTER/CH LIST** .
- 3 Press **▲ / ▼** to select the "Version" menu, then press **ENTER/CH LIST** .

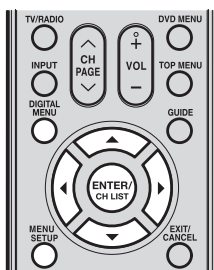


The software version is displayed.



- 4 Press **EXIT/CANCEL**  to return to the normal screen.

Software upgrade (DTV mode only)







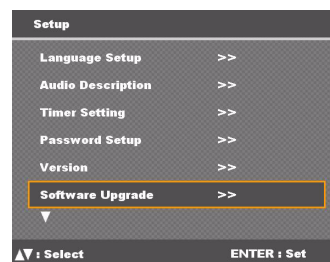
Notes:

- Do not disconnect the AC cord when the software upgrade is in progress, as this may cause the upgrade to fail. At this time you cannot use any of the buttons.
- When the unit searches for a software upgrade signal, the message 'Please wait...' will be displayed.

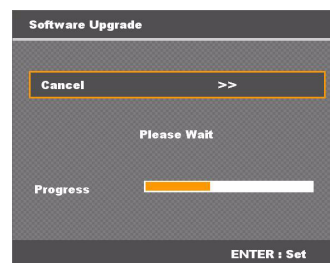
Software Upgrade

Software Upgrade allows you to download the latest software available on the channel.

- 1 Press **DIGITAL MENU**  or **MENU SETUP**  to display the Main Menu screen.
- 2 Press **▲ / ▼** to select the "Setup" menu, then press **ENTER/CH LIST** .
- 3 Press **▲ / ▼** to select "Software Upgrade", then press **ENTER/CH LIST**  to select "Start" to check if the TV has the Over Air Download service.




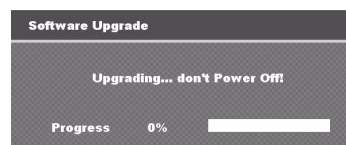
A progress bar appears to indicate scanning progress.



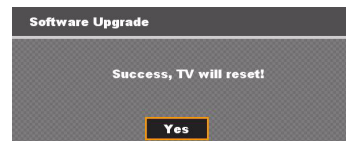
- 4 If a software upgrade is available from an Over Air Download (OAD), a message prompt with option to upgrade software from an OAD displays.



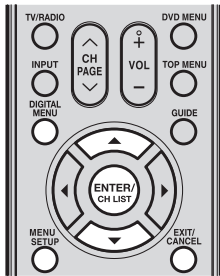
- 5 Press **◀ / ▶** to select "Yes", then press **ENTER/CH LIST** . The software upgrade is initiated. If you select "No", the update will be cancelled. You can return to watching your TV programmes.



- 6 After the process is complete, press **ENTER/CH LIST**  to reboot the TV.



Common interface (DTV mode only)







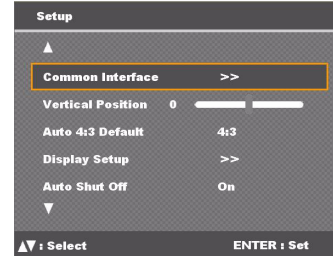
Common Interface

You can access the Common Interface module information from this menu option.

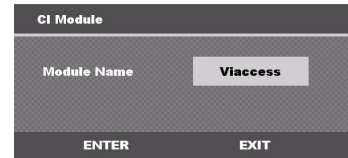
Preparations:


Insert CAM into the DVB Common Interface (C.I.) slot on the backside of the TV (see page 9).

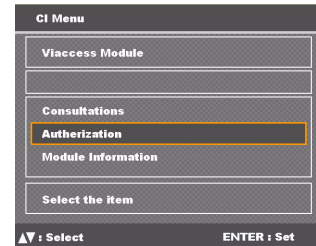
- 1 Press **DIGITAL MENU**  or **MENU SETUP**  to display the Main Menu screen.
- 2 Press **▲ / ▼** to select the "Setup" menu, then press **ENTER/CH LIST** .
- 3 Press **▲ / ▼** to select "Common Interface", then press **ENTER/CH LIST** .



- 4 The conditional access module (CAM) name is displayed.
Press **ENTER/CH LIST**  to view more information.

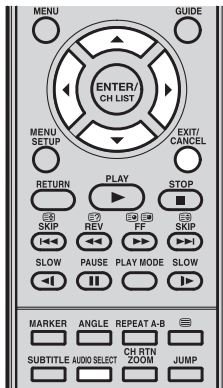


- 5 On the CI menu, options relating to the CAM module is displayed on the screen.
Press **▲ / ▼** to select an option, then press **ENTER/CH LIST**  to view details.



- 6 Press **EXIT/CANCEL**  to return to the normal screen.


Multi audio (DTV mode only)



Multi audio

You can select your preferred Audio mode and DVB (Digital Video Broadcasting) subtitle language.


The Multi audio menu will display the Audio mode and Language options available with the current broadcast.

- 1 Press **AUDIO SELECT**  to display the Multi audio menu.
The Audio mode and Language code will be displayed, if available.

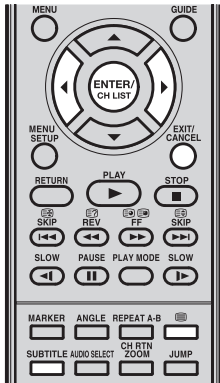


- 2 Press **◀ / ▶** to select Audio mode.
The Audio mode options include: Stereo, Left, Right, and L + R.



- 3 Press **▲ / ▼** to select a Language Code in the Language code list.
- 4 When different audio tracks are being broadcast from the left and right channels, select "Left" or "Right" in the Audio mode option.
- 5 Press **EXIT/CANCEL**  to save audio preferences.

DVB-Subtitle/Using the Digital Service (DTV mode only)



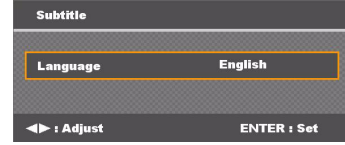
Note:

- DVB-Subtitle can also be changed by pressing **SUBTITLE** repeatedly.

DVB-Subtitle

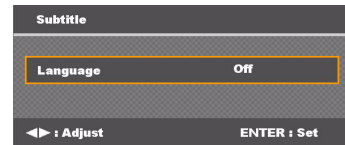
DVB-Subtitle is a feature supported in DVB (Digital Video Broadcasting) applications in which the service shown can be accompanied by a text display on the screen in parallel with the corresponding audio service. The DVB-Subtitle feature can be enabled or disabled at anytime.


- 1 Press **SUBTITLE**  to display the Subtitle menu.



- 2 Press **</>** to select your desired subtitle language from the available languages.

- 3 To disable DVB-Subtitle, press **</>** repeatedly until 'Off' appears in the Subtitle menu.



- 4 Press **EXIT/CANCEL**  to save the subtitle language.

Using the Digital Service

Some services bring you programmes with the Digital Service, letting you experience DTV interactively.


When provided, the Digital Service will start when you press .

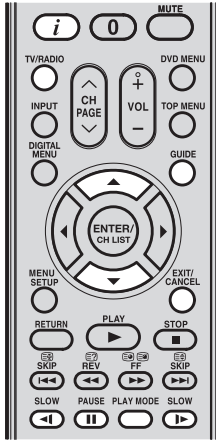
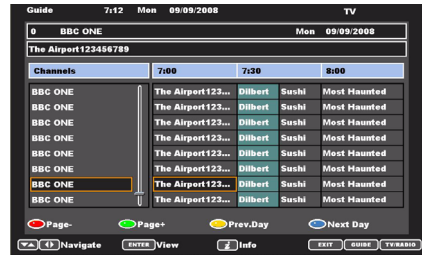
Notes:


- When the DVB-Subtitle default setting is set to "On", the Digital Service cannot be selected (e.g., MHEG). If you want to view the Digital Service screen, turn the DVB-Subtitle off.
- MHEG5 digital service is not available when the country selection is not set to "UK". (See pages 10 and 14.)


EPG (Electronic Program Guide) (DTV mode only)


The Guide menu shows the available programme listings for the next 8 days only, including today. However, the guide menu will show 'No Event Name' for programmes which are more than 8 days ahead, or for programmes within the 8 days when no programme information is available.

- 1 Press **GUIDE**  to display the EPG menu.



- 2 Press **TV/RADIO**  to switch from three service modes; TV, Radio, and Data, to view the EPG data accordingly. By default, the list of services listed on the screen is the TV mode.

If you wish to view the list of Radio services without exiting the current menu, press **TV/RADIO**  once.

If you wish to view the list of Data services without exiting the current menu, press **TV/RADIO**  twice.

- Service List

Displays all the available services.

As you scroll through the service list by pressing **▲ / ▼**, the Event list will be refreshed accordingly, and you will see the programme information for the currently highlighted programme.

To scroll through the service list from page to page, press the **Red/SLOW ◀** or **Green/PAUSE** button.

- Events list

Displays events in a grid of rows and columns.

Each row shows the list of events that are available, for the corresponding service in the service list. Within each row, you can press to navigate through the rest of the events.


You can easily move to the Previous day or Next day in the Events List by pressing the **Yellow/PLAY MODE** or **Blue/SLOW ▶** button (the date of the programme information you are currently viewing is shown in the top right hand corner).

The full event name will be displayed in the bar above. Event title will be displayed only if available otherwise 'No Description' message will be displayed.

- 3 From within the Guide menu, you can open the Description menu for the currently highlighted programme by pressing **i**.

The Guide/Description menu shows the extended event description of an event. You can scroll and view the complete event description of the event using **▲ / ▼**.

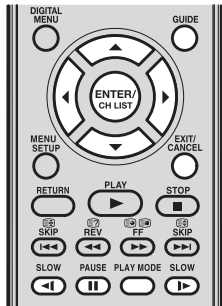
To return to the Guide menu, press **i**.

To clear the menu screen, press **EXIT/CANCEL** .

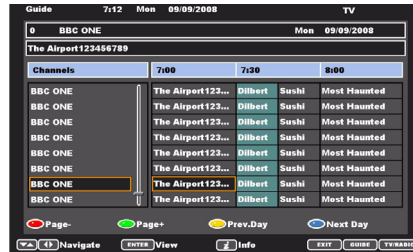
EPG Timer (DTV mode only)

You can choose whether or not the screen switches on when the timer event begins - see page 23 (Rec screen status (LCD Power on/off)). This is so that if you are using the timer to make a recording to your VCR or other device, the TV screen will not switch on unless you want it to.

If you try to switch to another channel while a timer event is in progress, the following message will appear: 'Warning: Changing the channel will interrupt your event timer. Are you sure you want to proceed? Yes/No'. Select "Yes" or "No" according to your wishes.



1 Press **GUIDE** to display the EPG menu.



2 Press **▲/▼/◀/▶** to highlight the programme you want to set as a timer event, then press **ENTER/CH LIST** .

Notes:

- If you select an event which has already started, the selected programme will be displayed on the screen, as you cannot set the timer for a programme which has already started.
- To display the stored timer events, press **GUIDE** twice. The Event Timer menu (see step 4 below) will appear. You can also delete or change the frequency (Once/Daily/Weekly) of the stored timer events (but please note that you cannot edit the time details that have been set from the EPG).

3 A confirmation banner will be displayed. Press **◀/▶** to select "Yes" or "No", then press **ENTER/CH LIST** (the selected option is shown in blue).

4 The Event Timer menu will appear. Press the **Red/SLOW** button to set the Timer mode for a selected event.



5 The Timer mode specifies the frequency of Timer wake-up which can be set as Once, Daily or Weekly.

Press **ENTER/CH LIST** to save the selected Timer mode.

Note:

To delete a timer event, select the specified event, then press the **Green/PAUSE** button.



6 To return to the EPG menu, press **ENTER/CH LIST** .

To clear the menu screen, press **EXIT/CANCEL** .

Notes:

- When the EPG Timer starts, the message 'Event Timer Started' will appear.
- If the EPG Timer starts when it is already switched on, it will start at the exact time that is set. If it starts from the standby mode, it will begin 20 seconds in advance of the stated time.
- You cannot hasten the start time from the original start time of the Event.
- You cannot set with the same date and time of another Event.
- Press the **Yellow/PLAY MODE** button to change the start time of the event.
- Press the **Blue/SLOW** button to change the time duration of the event.
- When in power-off-condition, EPG Timer cannot be activated.
- If the EPG Timer begins during standby mode without screen display, the Power indicator on the unit will be lit in orange. This is to indicate that an EPG Timer event has begun in standby mode. However, if it begins during the standby mode with a screen display, the Power indicator on the unit will light up green.

Disc

DVD discs must be Region 2 or Region ALL type to play on this unit.

The suitable disc formats are: DVD-Video, DVD-R/-RW (Video format only), Audio CD, CD-R/CD-RW, and Video CD.

Some CD-R/RW discs may be incompatible.

- This unit can play an 8cm disc. Please do not use a disc adapter. It may cause trouble.
- Please do not insert any disc of an irregular shape into the unit, as it may interfere with the function of the unit. You may not be able to remove it.
- Please do not use after market accessories, such as a ring protector, as this may cause trouble with the operation of the unit.

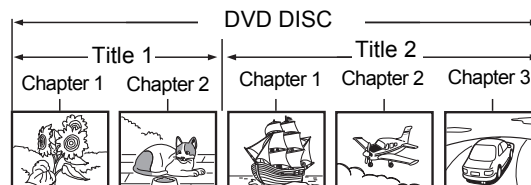
Do not play DVD-ROM, DVD-Audio, CD-G, Photo CD or SVCD to prevent accidental erasure of prerecorded material.

Title

When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a Title.

Chapter

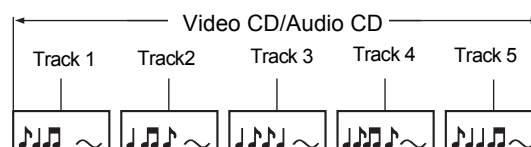
The titles can be subdivided into many sections. Each section is called a Chapter.



Track

Video CD/Audio CD can contain several items.

These are assigned to tracks.



Removing disc from case

Be sure to hold the edge of disc. Do not touch the surface of the disc.

Pick up the disc gently from the case.

- Do not scratch the disc.
- Do not get dirt on the surface of the disc.
- Do not stick a label or adhesive tape on the disc.
- Do not drop or bend the disc.

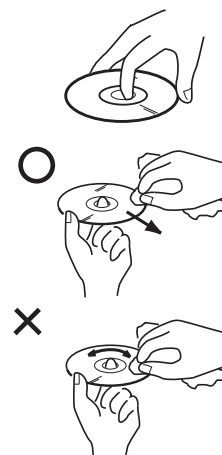
Storing disc

- Store the disc in the case to avoid risk of scratches, dirt or damage.
- Do not leave disc exposed to direct sunlight or in hot or humid places.

Cleaning disc

Wipe the disc with a clean, dry cloth from centre to edge.

- Do not wipe in circular direction.
- Do not use liquid or aerosol cleaners.






On Video CDs

This unit supports Video CDs equipped with the PBC (Version 2.0) function. (PBC is the abbreviation of Playback Control.) You can enjoy two playback variations depending on types of discs.

- Video CD not equipped with PBC function (Version 1.1)
Sound and movie can be played on this TV/DVD in the same way as an audio CD.
- Video CD equipped with PBC function (Version 2.0)
In addition to operation of a Video CD not equipped with the PBC function, you can enjoy playback of interactive software with search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this owner's manual may not work with some discs.

To turn off the PBC

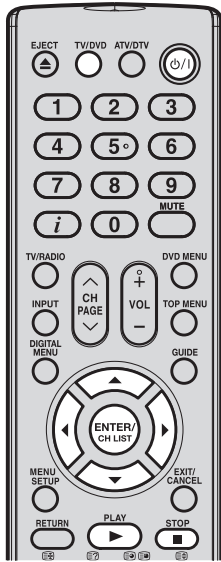
- (1) Press **PLAY MODE**  in the Stop mode.
- (2) Press **▲ / ▼** to select "Mode", then press **ENTER/CH LIST**  repeatedly until 'Normal' appears.
- (3) Press **PLAY MODE**  again to clear the screen.

To turn on the PBC

Follow the above step 1~2, then press **ENTER/CH LIST**  repeatedly until 'PBC' appears.


Playing a disc

This section shows you how to play a disc.



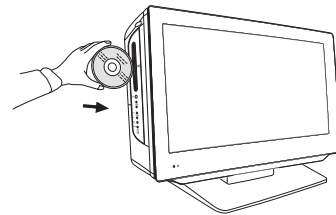
Basic playback (DVD/VCD/Audio CD)

Preparation:

- 1 Press **⏻/⏺** on the unit.
- 2 Press **TV/DVD**  on the remote control to select the DVD mode.
The DVD startup screen appears on-screen.



- 3 Load the disc in the disc slot with the label side facing forward.
(If the disc has a label.)





Note:






- Do not place a disc which is unplayable in this unit.

Notes:

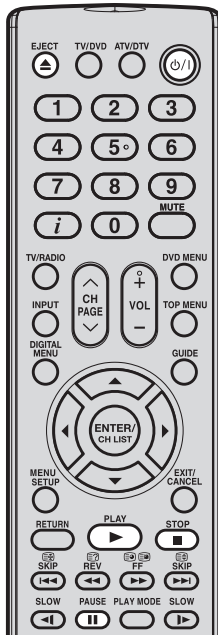
- **If the unit does not operate properly:** Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.
- If a disc is inserted during some modes other than DVD mode, it may switch to DVD mode and then playback may begin automatically.
- **About inserting disc:** If the unit is slanted or moved while inserting disc, it could damage the disc.

- 4 On the TV-screen, '' changes to 'Reading' and then playback commences.
 - A menu screen will appear on the TV screen if the disc has a menu feature.
 - Press **▲ / ▼ / ◀ / ▶** to select title, then press **ENTER/CH LIST** .
 - Title is selected and play commences.



- 5 To stop playback, press **STOP** .
- The unit records the stopped point, depending on the disc. '' appears on the screen. Press **PLAY**  to resume playback (from the scene point).
- If you press **STOP**  twice (' Stop' appears on the screen), the unit will clear the stopped point.

Playing a disc (continued)



To start playback in stop mode

Press **PLAY** ►.

To pause playback (still mode)

Press **PAUSE** ■■ during playback.

To continue playback from still mode

Press **PLAY** ►.


To stop playback

Press **STOP** ■.

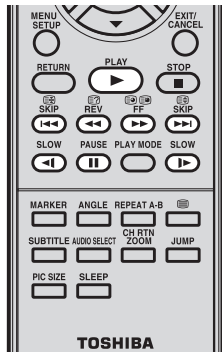
To remove the disc

- 1 Press **EJECT** ▲.
- 2 Wait for the disc drive to eject the disc, then remove the disc from the slot.

Notes:

- If a non-compatible disc is loaded, 'Incorrect Disc', 'Disc region incorrect' or 'Enter Password' will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (see pages 33 and 53).
- Some discs may take a minute or so to start playback.
- When you load a disc with the playback side facing forward, 'Reading' appears on-screen but it will be replaced by 'Incorrect Disc'. Eject the disc and load again making sure the playback side is now facing backward.
- Some discs may not work the resuming facility.
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this unit plays DVDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.
- Do not move the unit during playback. Doing so may damage the disc.
- In many instances, a menu screen will appear after playback of a movie is completed. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press  on your remote control once the movie is completed.
- There may be a slight delay between the button is pressed and the function activates.

Playing a disc (continued)



Note:

- The prohibition symbol 'X' appears on the upper right corner of the screen when you try to employ a playback function that is not available on the disc, or that is not yet accessible at this time. This does not indicate a problem with the TV/DVD.

You can play discs at various speeds.

Playing in fast reverse or fast forward direction (DVD/VCD/Audio CD)

- Press **REV** ◀◀ / **FF** ▶▶ during playback.
 - REV** ◀◀: Fast reverse playback
 - FF** ▶▶: Fast forward playbackEach time you press **REV** ◀◀ / **FF** ▶▶, the playback speed changes.
- To resume normal playback, press **PLAY** ▶.

Notes:

- The sound is muted during reverse and forward scan of DVD/VCD discs.
- The playback speed may differ depending on the disc.
- You can use fast reverse/fast forward playback for MP3/DivX® CD.

Playing frame by frame (DVD/VCD)

- Press **PAUSE** || during playback. Each time you press **PAUSE** ||, the picture advances one frame.
- To resume normal playback, press **PLAY** ▶.

Notes:

- You can use frame by frame playback for DivX® CD.
- The sound is muted during frame by frame playback.

Playing in slow motion (DVD/VCD)

- Press **SLOW** ◀| / ▶| during playback.
 - SLOW** ◀|: Slow reverse playback
 - SLOW** ▶|: Slow forward playback
- Each time you press **SLOW** ◀| / **SLOW** ▶|, the slow motion speed changes.
- To resume normal playback, press **PLAY** ▶.

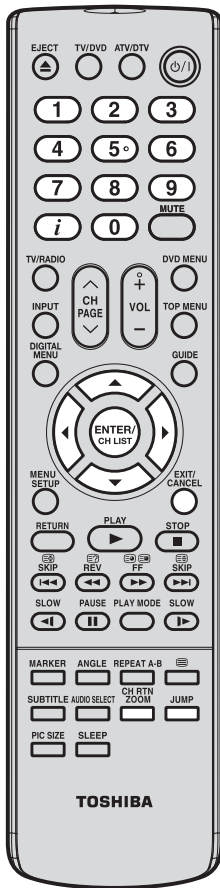
Notes:

- The sound is muted during slow-motion playback.
- You can use slow forward playback for DivX® CD.
- The slow reverse playback function is not available for DivX® CD.

Locating a chapter or track (DVD/VCD/Audio CD)


- Press **SKIP** |◀◀ / ▶▶| repeatedly to access the chapter or track number you want to play. Playback starts from the selected chapter or track.
- To locate succeeding chapters or tracks, press **SKIP** ▶▶|. Playback starts from the beginning of the selected chapter or track.
- To locate the preceding chapter or track, press **SKIP** |◀◀ twice in quick succession. Playback starts from the beginning of the preceding chapter or track.

Zooming/Locating desired scene




Zooming (DVD/VCD)

This unit will allow you to zoom in the frame image. You can then make selections by switching the position of the frame.

- 1 Press **CH RTN ZOOM**  during playback.
The view will zoom into the centre of the image.
Each press of the button will increase the scale value:
Q 1(x 1.3), Q 2 (x 1.5), and Q 3 (x 2.0).




- 2 Press **▲/▼/◀/▶** to pan the scene and view different sections of the picture.
- 3 To return to normal view, in zoom mode, press **CH RTN ZOOM**  repeatedly until 'Q Off' appears.

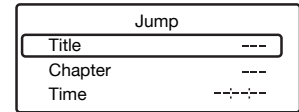
Notes:

- You can use the Pause or Slow functions in Zoom mode.
- Some discs may not respond to zoom feature.
- You can use the Zoom function for DivX® CD.

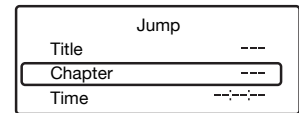
Locating a desired scene (DVD/VCD/Audio CD)


Use the title, chapter and time recorded on the DVD disc to locate the desired point to playback. In the case of VCD/Audio CD discs, time, and track are used to locate the desired point to playback. To check the title, chapter/track, and time, press **i**.

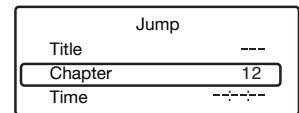
- 1 Press **JUMP**  during playback or resume stop mode.




- 2 Press **▲/▼** to select the "Title/Track", "Chapter" or "Time" option.



- 3 Use the **Number buttons (0-9)** to input the number.
If you input a wrong number, press **EXIT/CANCEL** .
Refer to the package supplied with the disc to check the numbers.

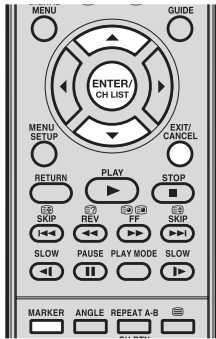


- 4 Press **ENTER/CH LIST**  to start playback.
 - When you change the title, playback starts from Chapter 1 of the selected title.
 - Some discs may not work in the above operation.

Notes:


- In case of the Audio CD and Video-CD, only Track and Time can be selected.
- In case of the Video-CD playback with PBC, the JUMP does not work. Turn off the PBC (see page 33).
- Only Time search function can be used for DivX® CD.

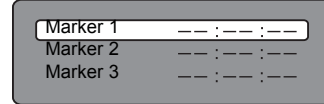
Marking desired scenes



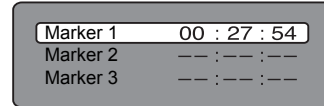
Marking the scenes (DVD/VCD/Audio CD)

Scene bookmarks refers to specific points in the playback range that has been marked for later access. You can create up to three markers per disc.

- 1 Press **MARKER**  at the scene where you would like to place the bookmark.




- 2 Press **▲ / ▼** to select a blank marker, then press **ENTER/CH LIST**  to bookmark the selected scene.



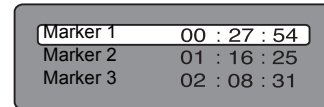
Notes:

- Some discs may not work with the marking operation.
- The saved scene bookmarks are only accessible during the current session. Once you eject the disc or turned off the TV/DVD, all bookmarks will be cleared.
- In some cases, subtitles for the marked scene may not appear.
- Bookmark function does not work with JPEG CD/DivX® CD.

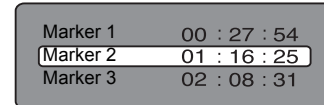
- 3 Press **MARKER**  to close the Bookmark window.
- 4 To save two more bookmarks, repeat steps 1 to 3.



Returning to the scenes (DVD/VCD/Audio CD)

- 1 Press **MARKER**  during playback or stop mode.

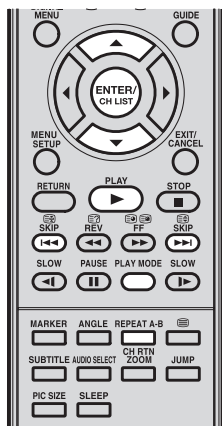


- 2 Press **▲ / ▼** to select the saved marker.



- 3 Press **ENTER/CH LIST**  to start playback on the scene saved in the selected bookmark.
- 4 To delete a scene bookmark, perform steps 1 ~ 2, then press **EXIT/CANCEL** .

Repeat playback/A-B playback



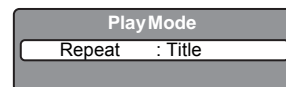
Repeat playback (DVD/VCD)

1 Press **PLAY MODE**  during playback or stop mode.


2 **DVD**

Press **ENTER/CH LIST**  repeatedly to select "Chapter" or "Title".

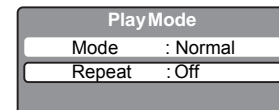
[DVD]



Video CD


Press **▲ / ▼** to select "Repeat", then press **ENTER/CH LIST**  repeatedly to select a repeat mode.


[Video CD]



Playback automatically applies after the current track is finished.



Note:

- If you set the repeat mode during stop mode, press **PLAY**  to start playback.

3 Press **PLAY MODE**  again to close the Play Mode window.


To resume normal playback, select "Off" in step 2.

Notes:


- Some discs may not work with the repeat operation.
- The repeat playback function is not applicable to PBC-enabled VCDs.
- Chapter/Track function is cancelled when the **SKIP** /SKIP  buttons are pressed.

A-B Repeat playback (DVD/VCD/Audio CD)

The A-B repeat function lets you repeat a specific section between two set points.

1 Press **REPEAT A-B**  at the point where you would like the playback loop to begin. This sets your 'A' point.



2 When the playback reaches the point where you would like the playback loop to stop, press **REPEAT A-B**  again. This sets your 'B' point.

This section between points A and B will be played repeatedly in a loop until you turned off the Repeat A-B mode.

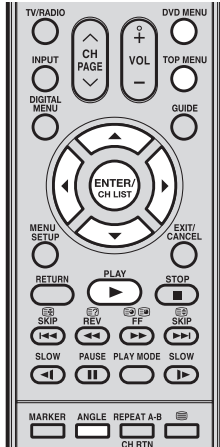


3 To resume normal playback, press **REPEAT A-B**  until 'Off' appears on the screen.

Notes:

- In A-B Repeat mode, subtitles near the A or B locations may not be displayed.
- You may not be able to set A-B Repeat during certain scenes of the DVD.
- A-B Repeat does not work with an interactive DVD and JPEG CD.

Changing angles/Title selection/DVD menu




Changing angles (DVD)

When playing back a disc recorded with multi-angle scenes, you can select the scene angle that you prefer.

- 1 Press **ANGLE**  during playback.
The current angle will appear.






- 2 Press **ANGLE**  repeatedly until the desired angle is displayed.

Note:

- Depending on the DVD, you may not be able to change the scene angle even if multi-angle data are recorded on the DVD.

Title selection (DVD)

Some DVDs contain two or more titles. If this is the case, you can select a particular title for playback.




- 1 Press **TOP MENU**  during playback. Title menu appears on the screen.
- 2 Press **▲ / ▼ / ◀ / ▶** to select the desired title.
- 3 Press **ENTER/CH LIST**  or **PLAY**  to start playback.

Notes:

- Depending on the DVD, you may not be able to select the title.
- Depending on the DVD, a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.

DVD menu (DVD)

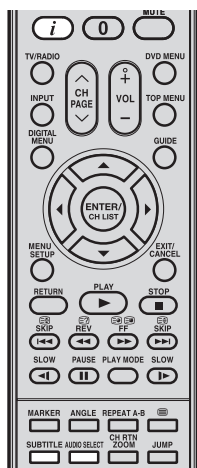
Some DVDs have an encoded menu that allows you to select a specific disc content, enable a particular DVD feature (e.g., subtitle or soundtrack language) or choose a particular title (for multi-title DVDs).

- 1 Press **DVD MENU**  during playback. The DVD menu appears on the screen.
- 2 Press **▲ / ▼ / ◀ / ▶** to select a menu item, then press **ENTER/CH LIST** . Use the same keys to enable an option for the selected item. Repeat this step to configure other menu options.
- 3 Press **DVD MENU**  again to resume playback on the scene that was playing when you pressed **DVD MENU**.

Note:

- Depending on the DVD, you may not be able to resume playback from the same scene that was playing when you pressed **DVD MENU**.

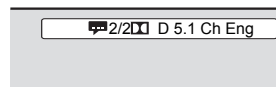
Changing soundtrack language/Subtitles/Disc status



Changing soundtrack language (DVD/VCD)

You can select the soundtrack language when you play a multilingual disc.

- 1 Press **AUDIO SELECT** during playback.
The current soundtrack language will appear.
- 2 Press **AUDIO SELECT** repeatedly until the desired language is selected.
The on-screen display will disappear after a few seconds.



In case of Video CD playback

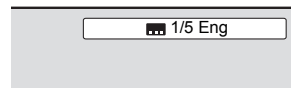
Audio type changes are as follows each time you press **AUDIO SELECT** .



Subtitles (DVD)

When playing back a disc recorded with subtitles, you can select the subtitle language or turn the subtitle off.

- 1 Press **SUBTITLE** repeatedly during playback until the desired language is selected.
- 2 To turn off the subtitle, press **SUBTITLE** until 'Off' appears. The on-screen display will disappear after a few seconds.



Notes:

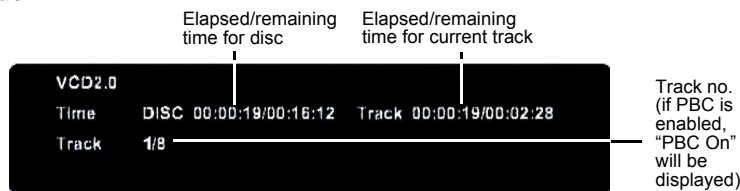
- If the desired language is not heard after pressing the button several times, that language is not recorded on the disc.
- The soundtrack language selected is cancelled when you eject the disc. The initial default language or available language will be heard if the disc is played back again.
- Depending on the DVD, you may not be able to change subtitles, or to turn subtitles on or off.
- While playing a DVD, the subtitle may change when you loaded or eject the disc.
- In some cases, a selected subtitle language may not be changed immediately.

Disc status (DVD/VCD)

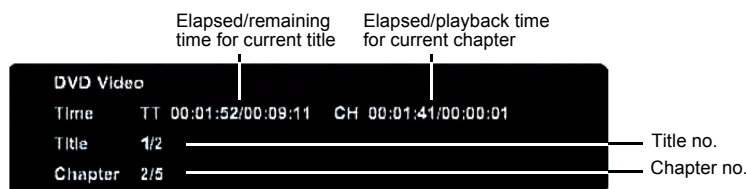
Press to display the status of the disc.

To close the display panel, press .

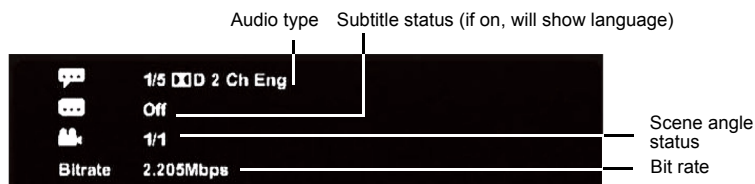
VCD mode



DVD mode



Press again.



MP3/JPEG/DivX[®] and Audio CD operation

This unit can playback the MP3/JPEG/DivX[®]-data which has been recorded on CD-R/RW. Audio CD also can be played back. To produce the MP3/JPEG/DivX[®]-data, you need a Windows-PC with CD-RW drive and a MP3/JPEG/DivX[®]-encoding Software (not supplied). The Apple-HFS-System cannot be played. This unit requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality.

There are many different types of recordable disc formats (including CD-R containing MP3 files). Not all recordable discs will produce optimal playback quality. The technical criteria set forth in this instruction manual are meant only as a guide. Use of CD-RW for MP3 files is not recommended.

MP3/JPEG/DivX[®] - data information

Limitations on MP3/JPEG/DivX[®] playback

- MP3/JPEG/DivX[®] CD are standardized by ISO9660, its file name must include following extensions; “.mp3”, “.jpg”, “.div”, “.divx”, “.avi”.
- MP3/JPEG/DivX[®] CD must correspond to the ISO standardized files.
- This unit can read 2000 files per disc. If one disc has more than 2000 files, it reads up to 2000 files, the remaining files will be omitted.
- MP3/JPEG/DivX[®] CDs cannot be used for the purpose of recording on this unit.
- It may take more than one minute for this unit to read MP3/JPEG/DivX[®] files depending on its structure.
- Music recorded by “Joliet Recording Specification” can be played back.
- The music files recorded by “Hierarchical File System” (HFS) cannot be played back.

Limitations on displaying of the file name

- The maximum number for display is 15 characters. Long file names will be condensed.

To playback MP3/JPEG/DivX[®] CD in the recorded order

- (1) Use MP3/JPEG/DivX[®] software that records data alphabetically or numerically.
- (2) Insert two or three digit number in the head of file name. (ex. “01” “02” or “001” “002”).
- (3) Refrain from making too many sub-folders.

Caution:

- Some MP3/JPEG/DivX[®] CDs cannot be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non MP3/JPEG/DivX[®] files cannot be played back.

Standard sampling frequency and the bit rate

MP3

- File format: MPEG-1 Audio
- Sampling frequency: 32 kHz, 44.1 kHz, 48 kHz
- Bit rate: 32 ~ 320 kbps (constant bit rate or variable bit rate)

The recommend recording setting for a high-quality sound is 44.1 kHz of sampling frequency and 128 kbps of constant bit rate.

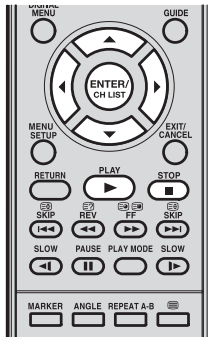
DivX[®]

- Version: DivX[®] 3, 4, 5, and 6 (specifically 3.1.1, 4.1.2, 5.0.2, 5.0.5, 5.1.1, 5.2.1, 6.0 at Home Theater profile).
- File format: MPEG1 Layer2 (MP2), MPEG1 Layer3 (MP3)
- Sampling frequencies: 32 kHz, 44.1 kHz, 48 kHz
- Bit rate: 32 ~ 320 kbps
- Resolution: Max 720 x 576 (at 25 fps), Max 720 x 480 (at 30 fps)

Notes:

- DivX[®] is a registered trademark of DivX, Inc. and is used under license.
- MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson.

MP3/JPEG/DivX[®] and Audio CD operation (continued)

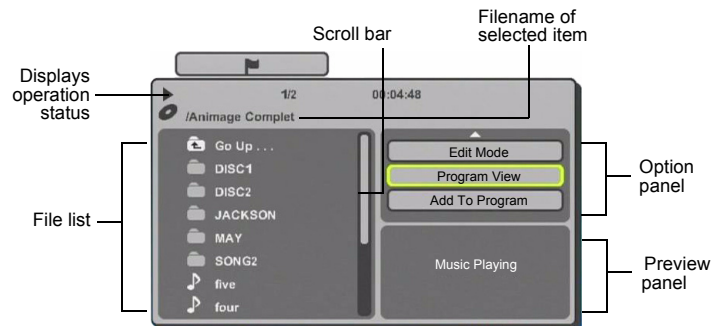


Note:

- The Repeat and Random/Programmed playback modes can be enabled during MP3 playback. (See pages 46, 47).

Loading CD

- 1 Load a MP3/JPEG/DivX[®] CD or an Audio CD into the disc slot.
- 2 A file browser screen will appear on the screen.
 - If the current directory has more than 8 files, press ▲ / ▼ to scroll the file list.
 - To see folder contents, select a folder and then press **ENTER/CH LIST**.
 - To return to the root directory, select "Go Up ..." then press **ENTER/CH LIST**.
 - If a CD contains a mixture of MP3, JPEG, and DivX[®] files, and **PLAY** is pressed without selecting the file, playback starts automatically from the first file in the list. If there is no file on the root directory, playback does not start automatically.



MP3 and Audio CD playback

- 1 In the file browser screen, press ▲ / ▼ to select the desired file.
- 2 Press **ENTER/CH LIST** to start playback.
- 3 To stop playback, press **STOP**. The unit records the stopped point. '■' appears on the screen. Press **PLAY** to resume playback. If you press **STOP** again or unload the disc, the unit will clear the stopped point.



Select Files

You can choose the type of file listed in the file browser.

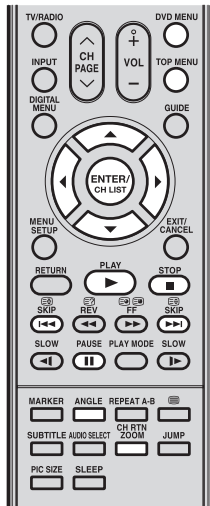
- 1 Press ► to move the selection highlight to the Option panel.
- 2 Press ▲ / ▼ to highlight "Select Files", then press **ENTER/CH LIST**.
- 3 Press ▲ / ▼ to select a file type from the list (Audio, Photo or Video).
- 4 Press **ENTER/CH LIST** to add/remove check mark. Checked file type will be displayed in the file browser.
- 5 Press ◀ twice to move the selection highlight to the file list.



Note:

- Select Files is not applicable to Audio CD.

MP3/JPEG/DivX[®] and Audio CD operation (continued)




JPEG playback

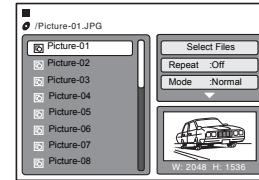
- 1 In the file browser screen, press **▲ / ▼** to select an image file for viewing.


A preview of the selected file displayed in the Preview panel.

To display a thumbnail list, press **DVD MENU** .

Press **▲ / ▼ / ◀ / ▶** to select the image file.

(To return to the file browser, press **TOP MENU** .



When **PLAY**  is pressed without selecting the file, playback starts automatically from the first file in the list.

- 2 Press **ENTER/CH LIST** . The selected image is displayed in fullscreen mode.



Rotating an image





You can rotate an image by 90°.

Press **ANGLE**  during playback of the image.


Options include 90°, 180°, 270° or No rotation.

Zooming an image

Zoom function also can be used in viewing JPEG files.

Press **CH RTN ZOOM**  repeatedly until the preferred scale is displayed. The current zoom setting is indicated by the following icons:  1 (x 1.3),  2 (x 1.5), and  3 (x 2.0).

To return to normal view, press **CH RTN ZOOM**  repeatedly until 'Q Off' appears.













- 3 Press **STOP**  to end playback. The file browser appears on the screen.

Slide show playback

The slide show enables you to view multiple JPEG files one after another automatically.

Preparation:

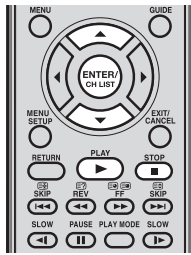
Set "JPEG Interval" setting to "Off", "5 seconds", "10 seconds" or "15 seconds" (see page 52).

- 1 Select your desired starting file for the slide show in step 1 above.
- 2 Press **ENTER/CH LIST**  or **PLAY**  to start slide show. When the slide show is completed, the file browser screen appears.
 - To view the previous or next image in the slide show, press **SKIP**   /  .
 - To temporarily stop the slide show, press **PAUSE** . '  ' appears on-screen. Press **PLAY**  or **SKIP**   again to resume the slide show.
 - To stop the slide show, press **STOP** . The file browser screen appears.

Notes:

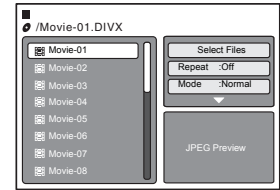
- The Jump and A-B Repeat modes are not available during JPEG-playback.
- When an image exceeds 5760 x 3840 pixels, the image display (preview window or thumbnail list) can appear cropped.
- It may have a longer interval period due to the size of data.

MP3/JPEG/DivX[®] and Audio CD operation (continued)



DivX[®] playback

- 1 In the file browser screen, press ▲ / ▼ to select the desired file.
When **PLAY** ► is pressed without selecting the file, playback starts automatically from the first file in the list.



- 2 Press **ENTER/CH LIST** (ENTER/CH LIST) or **PLAY** ► to start movie playback.



Note:

- Depending on the recording conditions of DivX[®] file, you may not be able to use the Fast Reverse and Fast Forward playback and Jump functions. (See pages 36, 37.)

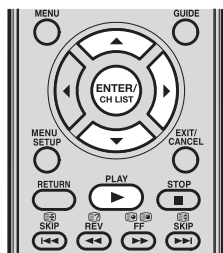
- 3 To stop playback, press **STOP** ■. The unit records the stopped point. '■' appears on the screen. Press **PLAY** ► to resume playback. If you press **STOP** ■ again or unload the disc, the unit will clear the stopped point.

Playing DivX[®] VOD content

ABOUT DivX[®] VIDEO: DivX[®] is a digital video format created by DivX, Inc. This is an official DivX certified device that plays DivX video. Visit www.divx.com for more information and software tools to convert your files into DivX video.

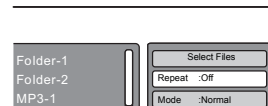
ABOUT DivX[®] VIDEO-ON-DEMAND: This DivX Certified[®] device must be registered in order to play DivX Video-On-Demand (VOD) content. To generate the registration code, locate the DivX VOD section in the device setup menu. Go to vod.divx.com with this code to complete the registration process and learn more about DivX VOD. (See page 54.)

MP3/JPEG/DivX[®] and Audio CD operation (continued)

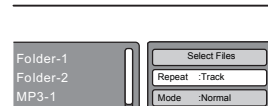


Repeat playback (Audio CD/MP3/JPEG/DivX[®])

- 1 In the file browser screen, press ► to move the selection highlight to the Option panel.
- 2 Press ▲ / ▼ to select "Repeat".



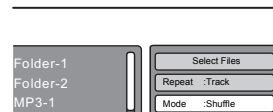
- 3 Press **ENTER/CH LIST** repeatedly to select a repeat mode, "Track" or "All".



- 4 Press **PLAY** ►.
The unit automatically starts repeat playback after finishing the current track.
- 5 To resume normal playback, select "Off" in step 3.

Random playback (Audio CD/MP3/JPEG/DivX[®])

- 1 In the file browser screen, press ▲ / ▼ to select "Mode".
- 2 Press **ENTER/CH LIST** to select "Shuffle".
- 3 Press **PLAY** ►.
The Random playback starts automatically.

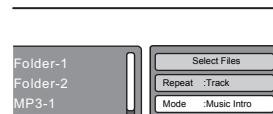


- 4 To resume normal playback, select "Normal" in step 2.

Music Intro (Audio CD/MP3)

The Music Intro function plays the first 10 seconds of a media file on the audio CD or disc.

- 1 In the file browser screen, press ▲ / ▼ to select "Mode".
- 2 Press **ENTER/CH LIST** to select "Music Intro".

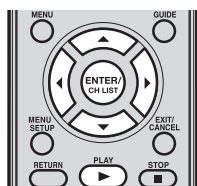


- 3 Press **PLAY** ►.
The unit starts to play each track on the disc for 10 seconds.
- 4 To resume normal playback, select "Normal" in step 2.

Notes:

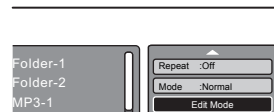
- The repeat or random function is cancelled when you eject the disc or turn the power off.
- In case of Audio CD, the function of A-B Repeat also can be used (see page 39).

MP3/JPEG/DivX[®] and Audio CD operation (continued)



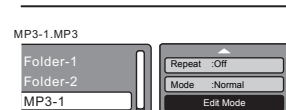
Programme playback (Audio CD/MP3/JPEG/DivX[®])

- 1 In the file browser screen, press **▶** to move the selection highlight to the Option panel.
- 2 Press **▲ / ▼** to select "Edit Mode", then press **ENTER/CH LIST** to enable it.



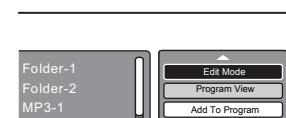
- 3 Press **◀** to move the selection highlight to the file list, then press **▲ / ▼** to select a file.

Press **ENTER/CH LIST** to mark it for inclusion in the programme playlist. Repeat this step to mark any other files you want to add to the programme playlist.

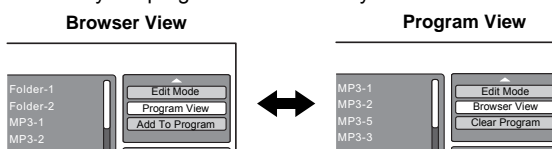


- 4 Press **▲ / ▼ / ◀ / ▶** to select "Add To Program", then press **ENTER/CH LIST** to add all marked files in the programme list. (The maximum number of files can be added is 30.)

After storing the files in the programme list, press **▲ / ▼** to select "Edit Mode", then press **ENTER/CH LIST** to disable it.



- 5 Press **▲ / ▼** to select "Program View", then press **ENTER/CH LIST**. Program View shows only the programmed files that you have added in Step 4.



- 6 In the Program View, press **PLAY ▶** to start playback via order the files were added.

To remove file from the programme list in stop mode:

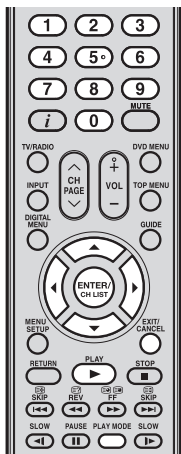
- 1 In Program View, press **▲ / ▼** to select "Edit Mode", then press **ENTER/CH LIST**.
- 2 Press **◀** to go to the programme list.
- 3 Press **▲ / ▼** to select the file you want to remove, then press **ENTER/CH LIST**.
- 4 Press **▲ / ▼ / ▶** to select "Clear Program", then press **ENTER/CH LIST**.

Note:

- The program function is disabled when you eject the disc or turn the power off.

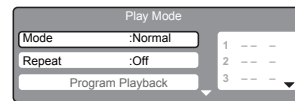
Program playback/Random playback

You can arrange the playback order of tracks or files on the disc. And the unit can also select tracks or files at random and playback them. These features work for Video CD. For Audio CD and MP3/JPEG/DivX® CD, please see “Random playback (Audio CD/MP3/JPEG/DivX®)” on page 46 and “Programme playback (Audio CD/MP3/JPEG/DivX®)” on page 47.

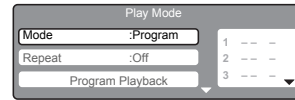


Program playback (VCD)

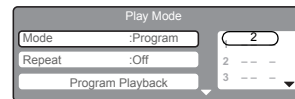
1 Press **PLAY MODE** during stop mode.



2 Press **▲ / ▼** to select “Mode”, then press **ENTER/CH LIST** to select “Program”.



3 Press **◀ / ▶** to select the programming position. Use **Number buttons (0 – 9)** to input the track numbers sequentially. If you input a wrong number, press **EXIT/CANCEL** .



4 Press **◀ / ▶** to return to the left column, then press **▲ / ▼** to select “Program Playback” and press **ENTER/CH LIST** . The programmes you selected will start to playback in order.

5 To resume normal playback, select “Normal” in step 2.

6 To change the programme:

- (1) Select “Program” in step 2, then press **▲ / ▼ / ◀ / ▶** to select the track number you want to change, and press **EXIT/CANCEL** .
- (2) Use the **Number buttons (0 – 9)** to enter the new track number.

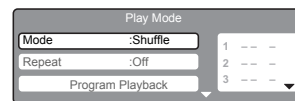
7 To clear programmes:

- To clear a single programme, select “Program” in step 2. Press **▲ / ▼ / ◀ / ▶** to select the track number, then press **EXIT/CANCEL** .
- To clear all the programmes, select “Clear Program”, then press **ENTER/CH LIST** .

Random playback (VCD)

1 Press **PLAY MODE** during playback or stop mode.

2 Press **▲ / ▼** to select “Mode”, then press **ENTER/CH LIST** to select “Shuffle”.



3 Press **PLAY** to start random playback.

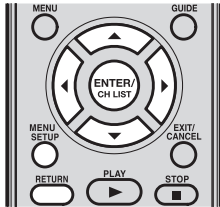
- If you set ‘Shuffle’ during playback mode, Random playback will begin after the track that is currently being played has ended.
- To resume normal playback, select “Normal” in step 2.

Notes:

- In case of Video CD with PBC, you cannot set Program playback.
- The program is cancelled when you eject the disc or turn the power off.
- In case of Video CD with PBC, you cannot set Random function during playback.

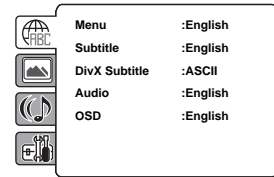
Customizing the function settings

You can change the default settings to customize performance to your preference.

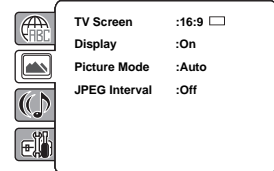


Setting procedure

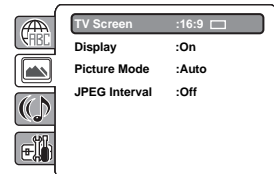
1 In DVD mode, press **MENU SETUP**  in stop mode.



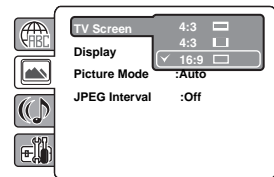
2 Press **▲ / ▼** to select a setup tab, then press **▶**.




3 First option will be highlighted. Press **▲ / ▼** to select the desired option.





4 Press **ENTER/CH LIST**  to display a list of available option settings.







5 Press **▲ / ▼** to select an option setting, then press **ENTER/CH LIST**  to save the setting.
Refer to pages 51 ~ 54 for a list of description for each option setting.

6 To configure another option on the same setup, repeat steps 3 ~ 5.
To select another section, go back to step 2 by pressing **◀** repeatedly.

7 To close the DVD Setup Menu screen, press **MENU SETUP**  or press **RETURN** .

Customizing the function settings (continued)

Settings details

Section	Option	Details	Page
	Menu	Select the language for the DVD menu display.	51
	Subtitle	Select the subtitle language for disc playback.	
	DivX Subtitle	Select the subtitle encoding format for DivX [®] VOD playback.	
	Audio	Select the audio language for disc playback.	
	OSD	Select a preferred language for on-screen display.	
	TV Screen	Select a picture size according to the aspect ratio of your TV.	51
	Display	Turn the operation status display on the screen on or off.	
	Picture Mode	Select a preferred picture mode from "Video", "Film" or "Auto".	
	JPEG Interval	Select the interval time between images in a slide show.	52
	Night Mode	Toggle the night mode on or off.	52
	Digital Out	Select the format for digital audio output corresponding to your audio connection.	
	Parental	Set the restriction level for allowable disc content.	53
	Password	Change the access password for the parental control setting.	54
	DivX (R) VOD	Display the 10-character registration code for viewing DivX VOD content.	
	DivX Deregistration	Display the 8-character deregistration code.	

Note: These setup settings are retained in the unit's memory. It remains active even if the power is turned off.

Customizing the function settings (continued)



	Menu	:English
	Subtitle	:English
	DivX Subtitle	:ASCII
	Audio	:English
	OSD	:English

Menu and OSD

Select the language for the DVD and Setup menu display. Options include: English, French, Spanish, German, Italian

Subtitle and Audio

Select the language for the subtitle display and audio track output during disc playback.

- **English/French/Spanish/German/Italian:** The selected language will be heard or seen.
- **Auto (Subtitle):** The unit will display the subtitle in the disc's default language.
- **Off (Subtitle):** There will be no subtitle display.

Note:

- If the selected language is not recorded on the disc, the default disc language will be used.

DivX Subtitle

Select the subtitle encoding format to use during DivX[®] content playback. Options include: ASCII, Unicode, Turkish, Hebrew, Arabic



	TV Screen	:16:9	<input type="checkbox"/>
	Display	:On	
	Picture Mode	:Auto	
	JPEG Interval	:Off	

TV Screen

Select the picture size during disc playback.

- **4:3 (Letterbox):** When playing back a wide screen-DVD disc, it displays the wide picture with black bands at the top and bottom of screen.
- **4:3 (Panscan):** It displays the wide picture on the whole screen with left and right edges automatically cut off.
- **16:9 (Wide screen):** A wide screen picture is displayed full size, although the image on the screen may be geometrically distorted in this mode because the TV screen has an aspect ratio of 4:3 not 16:9.

Note:

- If the DVD disc is not formatted in the pan & scan style, it will be displayed in the standard 4:3 proportion.

Display

Choose whether to show a status display whenever a button is pressed.

- **Off:** On-screen displays do not appear when you press any buttons except **PLAY MODE**, **MARKER**, **i**, and **JUMP**.
- **On:** On-screen displays appear when you press the buttons (factory setting).

Picture Mode

The source content of a DVD video disc can either be recorded in film format (images are recorded at 24 frames per second) or video format (video signals are recorded at 30 frames per second). Make this selection according to the type of content being viewed.





- **Auto:** The DVD player automatically detects the type of source content, film or video of playback source, and converts that signal in an appropriate method.
- **Film:** The DVD player converts film content pictures appropriately. Suitable for playback of film content pictures.
- **Video:** The DVD player filters video signal, and converts it appropriately. Suitable for playback of video content pictures.

Note:

- Depending on the disc, pictures may be cut off or doubled. In this case, select "Video".

Customizing the function settings (continued)



	Night Mode	:Off
	Digital Out	:Bitstream
		
		

JPEG Interval

You can continuously playback all JPEG files automatically.

After the selection below, the disc will start playback on JPEG files which have been recorded.

- **Off:** Plays back one file at a time.
- **5 seconds:** Plays back images in the form of a slide show at 5 second intervals.
- **10 seconds:** Plays back images in the form of a slide show at 10 second intervals.
- **15 seconds:** Plays back images in the form of a slide show in 15 second intervals.

Night Mode

Night Mode enables you to control the dynamic range so as to achieve a suitable sound for your equipment.

- **Off:** It plays back at the recording level on the disc.
- **On:** Loud sound such as explosion is toned down slightly when played back. This is suitable when it is connected to a stereo.

Notes:

- This function works only when the disc recorded with Dolby Digital is played back.
- The level of Night Mode may differ depending on DVD video disc.

Digital Out

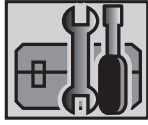
You can select the digital output sound format corresponding to your system connection.





- **Off:** There is no sound output from DIGITAL AUDIO OUT jack.
- **PCM:** Change Dolby Digital to PCM for the output.
Select when connected to a 2 channel digital stereo amplifier.
- **Bitstream:** Disc audio bitstream data will be the output.

Note:

- Even if you select "Bitstream", MPEG Audio will be the output in PCM format.



Customizing the function settings (continued)





	Parental	:Off
	Password	:Change
	DivX(R) VOD	:Display
	DivX Deregistration	:Display

Parental


Some discs are specified as not suitable for children. Such discs can be limited not to playback with the unit.

- (1) Press **▲ / ▼** to select "Parental", then press **ENTER/CH LIST** . "Enter Password" screen will appear.
- (2) Press "0000" using **Number buttons (0 – 9)**. (Please note, this is presetting password of this unit). Then press **ENTER/CH LIST** .

Press **ENTER/CH LIST**  again to display the parental level listing.






- **Level 1 Kid Safe:** Suitable for children
 - **Level 2 G:** General audience; recommended as acceptable for viewers of all ages
 - **Level 3 PG:** Parental Guidance suggested
 - **Level 4 PG-13:** Unsuitable for children under 13
 - **Level 5 PG-R:** Parental Guidance Recommended
 - **Level 6 R:** Restricted; under 17 requires accompanying parent or adult guardian
 - **Level 7 NC-17:** No one under 17 admitted
 - **Level 8 Adult:** Virtually, DVD software of any grade (adult/general/children) can be played back. Should be viewed only by adults due to graphic sexual material, violence or language.
 - **Level Off:** Parental Control is inactive; all discs can play
- (3) Press **▲ / ▼** to select from the level 1 to level 8. The limitation will be more severe as the level number is lower. Then press **ENTER/CH LIST** .
 - (4) Press **EJECT ▲** to activate Parental control setting.

Notes:

- If each setup (pages 51 ~ 54) has been completed, the unit can always work under the same condition (especially with DVD discs). Each setup will be retained in the memory even if you turn the power off.
- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says 'adult'. For those discs, the age restriction will not work.
- The password is required every time when you change the parental level.
- If you input a wrong number, press **EXIT/CANCEL** .

Customizing the function settings (continued)

Password



- (1) Press **▲ / ▼** to select "Password", then press **ENTER/CH LIST** . The 'Enter Current Password' screen will appear.
- (2) Press **Number buttons (0 – 9)** to input the current password (If the password has not been set yet after you purchase this unit, it is "0000"), then press **ENTER/CH LIST** .
- (3) Press **ENTER/CH LIST**  again, the 'Enter New Password' screen will appear, then use **Number buttons (0 – 9)** to input the new password.
- (4) Press **ENTER/CH LIST** . You will be prompted to confirm the new password.
- (5) Use the **Number buttons (0 – 9)** to input the new password again, then press **ENTER/CH LIST** . Now your new password has been set. Be sure to remember this number!

If you forget the password.

- (1) Press **EJECT ▲** to remove the disc.
- (2) Press and hold down **4** on the remote control, then press **VOL -** on the unit. The 'Initializing' message appears on the screen to indicate that the password has been reset to its default factory setting ("0000"). All DVD Setup related settings will also be reset to their default factory values.

DivX(R) VOD

In order to play DivX® VOD (Video On Demand) content on this unit, you first need to register the unit with your DivX® VOD content provider. You do this by generating a DivX® VOD registration code, which you submit to your provider.

- (1) Press **▲ / ▼** to select "DivX(R) VOD", then press **ENTER/CH LIST** . Your 10-character registration code is displayed. Make a note of the code as you will need it when you register with a DivX® VOD provider. Then press **ENTER/CH LIST**  to select "Done".

DivX Deregistration

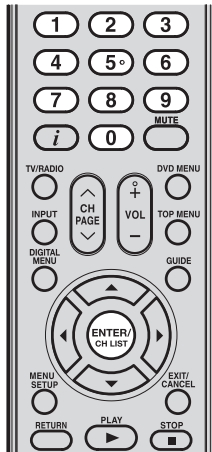
In order to deregister this unit, you will be required to provide your unit's deregistration code.

To generate this code:

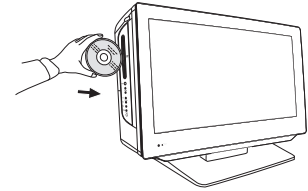
- (1) Press **▲ / ▼** to select "DivX Deregistration", then press **ENTER/CH LIST** . Note down the 8-character deregistration code that is displayed on-screen.

Temporary cancel the rating level by DVD disc

Depending on the DVD disc, the disc may try to temporarily cancel the rating level that you have set. It is up to you to decide whether to cancel the rating level or not.



- 1 Load a DVD disc.



- 2 If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the Reading screen will change, depending on which disc is played. If you select "Yes" and **ENTER**, the password input screen will then appear.

- 3 Press **Number buttons (0 – 9)** to input the password, then press **ENTER/CH LIST**.



- 4 Playback will commence if the entered password was correct.

Note:

- This temporary cancellation of rating level will be kept until the disc is ejected. When the disc is ejected, the original rating level will be set again automatically.

PC connection

As PCs are sometimes supplied with a 'conventional' CRT monitor, you may need to adjust the display settings of your PC's graphics card, otherwise the pictures may not appear correctly. Switch on your PC (still with your original monitor) - select "1360 x 768" for the screen resolution, and select 60 Hz for the on-screen refresh rate. Switch off your PC, then connect it to your TV while both items are still switched off.

Monitor display modes

Mode	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
VGA	640 x 480	59.940 Hz	31.469 kHz	25.175 MHz
SVGA	800 x 600	60.317 Hz	37.879 kHz	40.000 MHz
XGA	1024 x 768	60.004 Hz	48.363 kHz	65.000 MHz
WXGA	1280 x 720	60.000 Hz	45.000 kHz	74.250 MHz
WXGA	1280 x 768	59.870 Hz	47.776 kHz	79.500 MHz
WXGA	1360 x 768	60.015 Hz	47.712 kHz	85.500 MHz

(according to Graphic card)

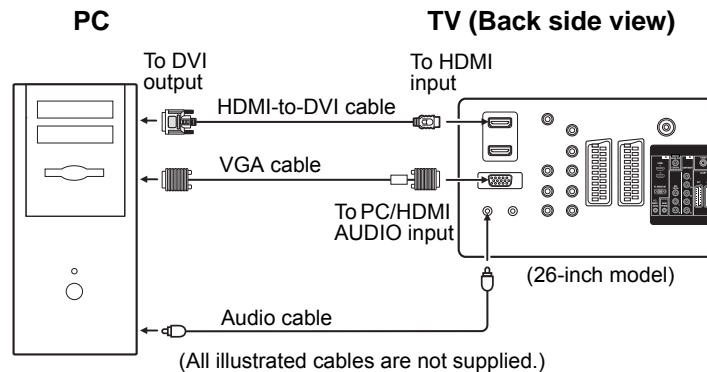
Select PC input

- (1) Switch on the TV.
- (2) Switch on the computer.
- (3) Select the PC input mode (see page 13). (When you use HDMI cable, select HDMI input mode.)

Notes:

- If there is no video signal from the computer when the unit is in PC mode, "No Signal" will appear on the TV screen.
- If a digital PC connection does show a picture, proper working is not guaranteed. Digital PC connection is not granted for this TV.

Use a PC-VGA cable (not supplied) to connect the TV to your PC. You can also use an HDMI cable to connect to your PC. When the HDMI cable is used, the audio cable is no longer required. If you use the HDMI-to-DVI cable, please connect audio cable as same way as VGA cable. Connect cables carefully. Do not bend or break the connector pins.



Example: To adjust the contrast.

- 1 During PC mode press **MENU SETUP** to display the Main Menu screen.
- 2 Press **▲/▼** to select "Picture", then press **ENTER/CH LIST** . Press **▲/▼** to select "Picture Setting", then press **ENTER/CH LIST** . Select "Contrast", then press **ENTER/CH LIST** . Press **◀/▶** to adjust the contrast.
- 3 Press **EXIT/CANCEL** to return to the normal screen.

After connecting a PC to your TV, you can now configure the display and audio settings.

To configure the display settings

- (1) Press **MENU SETUP** to display the Main Menu screen.
- (2) Press **▲/▼** to select the "Picture" menu, then press **ENTER/CH LIST** .
- (3) On the Picture menu you can adjust various picture properties such as brightness, contrast, colour, sharpness, tint, colour temperature, and backlight.
- (4) For a list of available menu options in the Picture menu, see page 22.

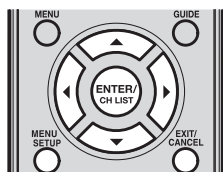
To configure the audio settings

- (1) Press **MENU SETUP** to display the Main Menu screen.
- (2) Press **▲/▼** to select the "Sound" menu, then press **ENTER/CH LIST** .
- (3) On the Sound menu you can adjust the NICAM stereo reception, and the bass, treble, balance, and sound effects.
- (4) For a list of available menu options in the Sound menu, see page 22.

Connecting an HDMI or a DVI device to the HDMI input

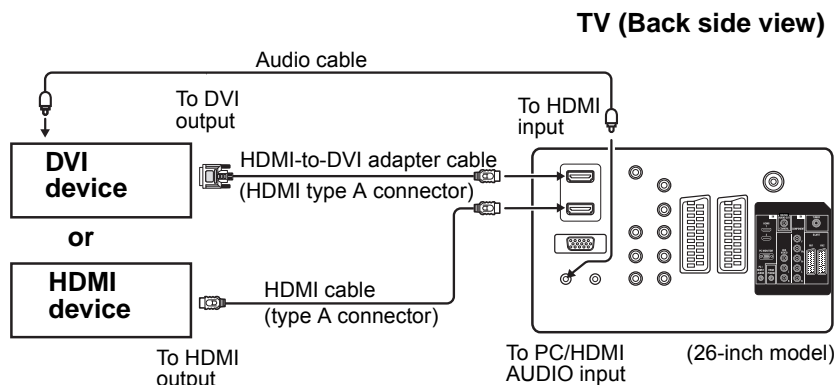
The HDMI (19/22 inch) or HDMI1/HDMI2 (26 inch) input receives digital audio and uncompressed video from a HDMI equipped device or uncompressed digital video from a DVI equipped device.

When you connect the HDMI (19/22 inch) or HDMI1 (26 inch) to a DVI device with a HDMI-to-DVI adapter cable, it only transfers the video signal, so it is necessary to use separate analogue leads to transfer the audio signals.



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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(All illustrated cables and type A connectors are not supplied.)

Select HDMI input

After setting up the HDMI device, use the TV remote control to change the TV source input to HDMI (see page 13).

Selecting the HDMI audio input source

You must choose the appropriate HDMI audio input setting for each connection, depending on whether the source is equipped with a DVI or HDMI socket.

- 1 Press **MENU SETUP**  to display the Main Menu screen.
- 2 Press **▲ / ▼** to select "Sound" menu, then press **ENTER/CH LIST** .
- 3 Press **▲ / ▼** to select "HDMI Audio", then press **ENTER/CH LIST** .
Press **◀ / ▶** to select "HDMI" or "DVI".

Notes:

- For 19DV665DB/19DV667DB/22DV665DB/22DV667DB models, the HDMI IN jack corresponds to the input mode 'HDMI'.
- The 26DV665DG model has two HDMI IN jacks (HDMI1 and HDMI2) and only one audio input mode (HDMI1). Please check the I/O port label on the rear side to determine the location of the HDMI1 jack.

- 4 Press **EXIT/CANCEL**  to return to the normal screen.

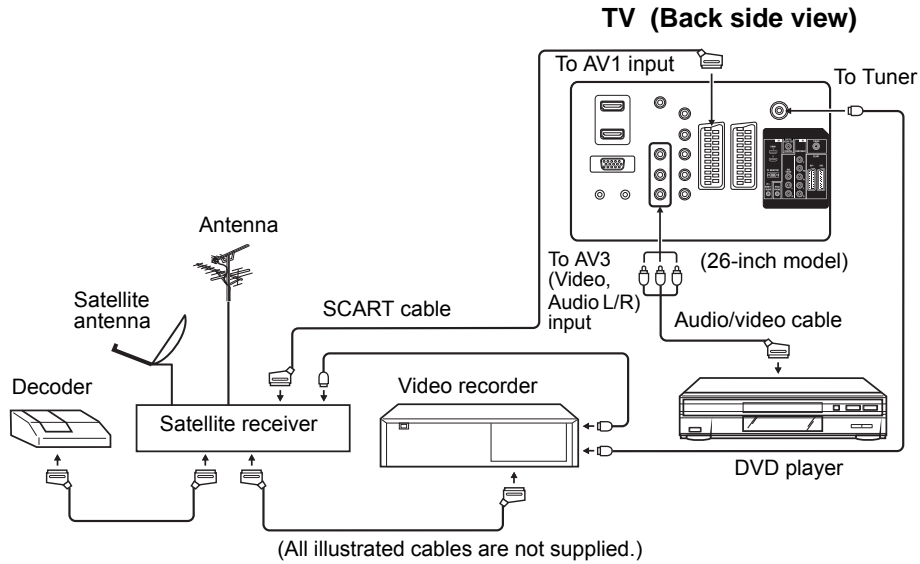
Notes:

- For specific connection instructions, refer to the manual supplied with your HDMI device.
- If there is no picture available via HDMI-connection, you can use a SCART cable to connect to the TV. Use the HDMI-device's remote-control to launch the HDMI-device's Setup Menu screen.
- To set the video output for the HDMI device, refer to the manual supplied with your HDMI device.

Connecting TV to other equipment

1 Connecting aerials and other devices to your TV

Connect the cable TV coaxial cable directly to the aerial input jack on the rear of the TV.



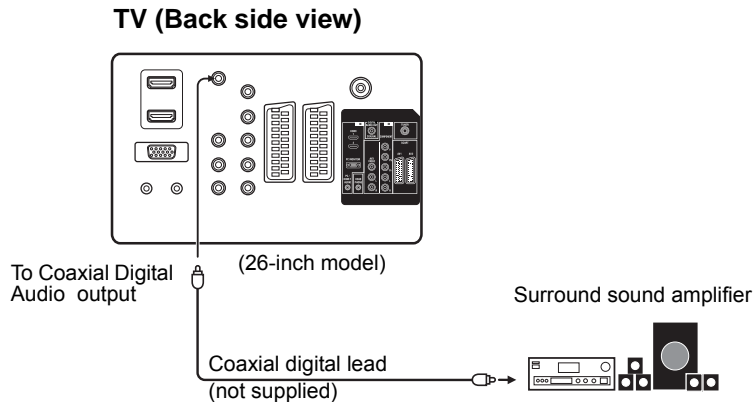
Caution:

Before connecting:

- Make sure to disconnect the appliance from the power supply in order to avoid any potential damage from occurring.
- Make sure to establish the required connection.
- Make sure that connections are properly and correctly attached before connecting the appliances to the power supply.

2 Connecting an audio system

If you have a surround sound amplifier/decoder with a coaxial digital input, you can connect the Coaxial Digital Audio Output to it, using a suitable coaxial digital lead. This connection carries the audio signal from the set's Digital channels only.



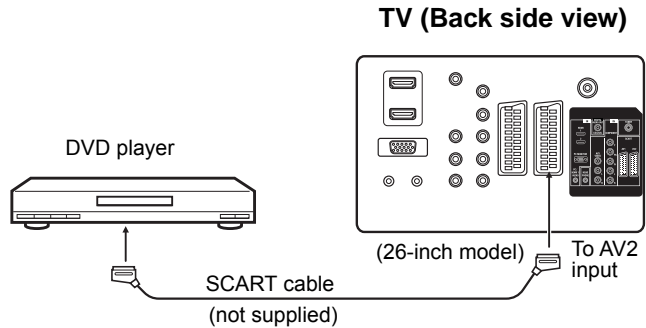
Notes:

- The Bass/Treble/Balance adjustments only function with the sound from the TV speakers - it does not affect the audio output sockets.
- After connecting a Dolby Digital decoder please select in the DVD menu the Dolby Digital (DD) sound track option.
- Several DVDs may be pre-recorded on both sides however only one side contains the Dolby Digital sound track. Please insert the correct DVD side.
- When a DTS sound track is played the integrated loudspeakers are mute. The DTS sound can only be played digitally using the digital outlet. DTS decoder is necessary for hearing.
- Digital audio output is active only when receiving DVB-T, not when receiving analogue cable TV broadcasting.

Connection TV to other equipment (continued)

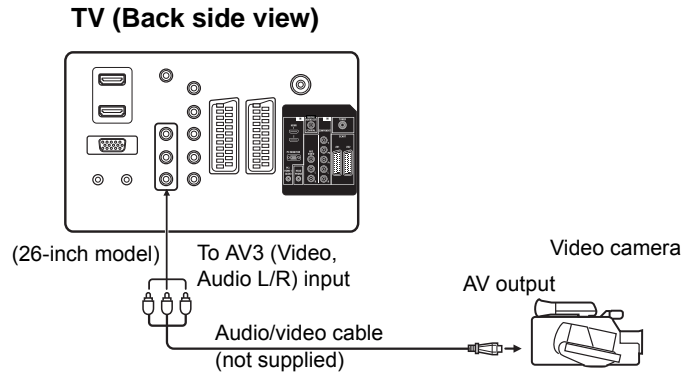
3 Connecting a DVD player

Connect a DVD player as shown.
Select AV1 or AV2 input mode.



4 Connecting a video camera

Select the AV3 input mode (see page 13). You can see the playback picture from the video camera.



Notes:

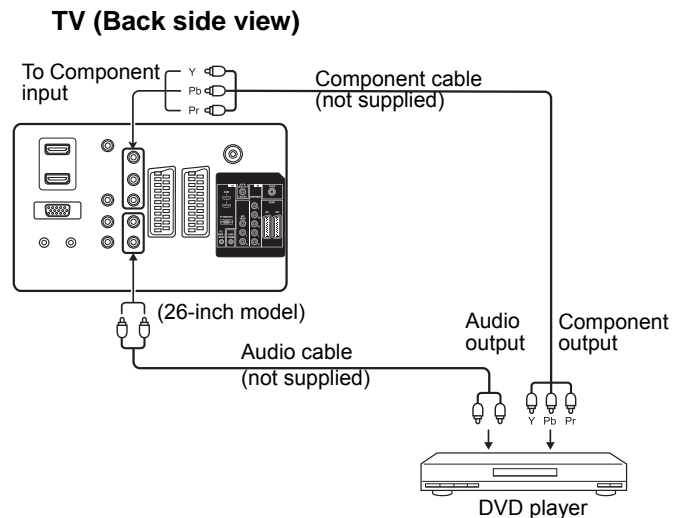
- To connect the video camera using other cables, refer to the video camera's instruction manual for more information.
- If you have a video camera with S-Video, use an S-Video cable (19DV665DG/19DV667DG/22DV665DG/22DV667DG only) instead of a standard video cable. Do not connect a standard video cable and an S-Video cable at the same time, the S-Video input will override the Component Video input.

5 Connecting to a DVD player or other AV device with Component Video outputs

If your DVD player (or other device) has Component Video output jacks, use a suitable set of leads (RCA/Phono) to connect these to the Component Video inputs on this TV as shown - it can greatly enhance the picture quality and performance. Please remember that you will also need to connect separate leads (RCA/Phono) for the audio signals. Select the Component input mode (see page 13).

Note:

- The Component Video input of this unit are for use with equipment which outputs interlaced signals (PAL: 576i/1080i or NTSC: 480i/1080i) and progressive signals (PAL: 576p/720p or NTSC: 480p/720p).



Status message

Information/Status message	Cause
Invalid entry	The channel does not exist. (e.g., "000")
No radio services	Cannot change to Radio mode because there is no radio service in the channel list.
No TV services	Cannot change to TV mode because there is no TV service in the channel list.
No data service	Cannot change to data mode because there is no data service in the channel list.
No services	There are no services in the received signal.
No Teletext signal	There is no Teletext in the channel.
Duplicate Timer	When two event timers overlap.
No video No audio	The signal does not contain audio or video.
Audio stream not available	The Multi Audio Menu cannot be displayed because there is no sound.
Descrambling not possible	The services for the selected channel are not available for this card.
CI card initialized	CI card is initializing.
CAM module has been removed	CAM module has been removed. (CAM is used for inserting the CI card).
No CAM Found	CAM module is not found.
Database empty	There are no services in the TV.
No signal	There are no signal inputs.
Locked service	The service is locked with the channel organizer.
Scrambled service	The service is scrambled and unavailable.
Digital Service	Not available.
Not Running	Broadcasting has been suspended.
HD service	This service is for HD.
New service added ...	A new service has been added.
Upgrading available service details	Service information has been changed. The channel list is updating.
Duplicate carrier found	The same signal has already been set.
Invalid Stream	Contains a video format that is not supported by this TV.
Interactive services are disabled while subtitles are on	The Digital Service cannot be viewed if DVB-Subtitle is activated.

Troubleshooting table

Please check the following list before requesting service.

Symptom	Possible solution	Page
TV		
No picture, no sound	Switch on the set. Check that the mains power outlet is properly connected. Select appropriate input mode. Unplug unit for 1 minute, then plug it back in.	6 9 13
No reception	Have you tuned in the TV stations? Connect the antenna. Make sure the set is ON and not in Standby mode	10, 13 9 6
The TV switches off with missing antenna input signal	This is normal. 15 minutes after the antenna signal has disappeared, the set will change to standby mode.	17
The "Channel" menu cannot be accessed in the Main Menu screen.	The unit is set to AV1/2 (19/22 inch) or AV1/2/3 (26 inch) mode.	13
Wrong Colours	Colour and Brightness errors can occur when the viewing angle/ambient air temperature (see technical specifications) are exceeded.	-
There is sound but no picture when viewing a DVB (digital) channel	Some channel offers audio content only.	-
Blocky image or image stops intermittently.	Check all antenna connections. Move the antenna away from areas of possible interference. Try using an antenna booster.	9
Some digital channels cannot be viewed.	Contact the service provider to subscribe.	-
"Database empty" message appears on the screen.	Check all antenna connections and try auto tuning again.	9
DVD		
The playback picture has occasional distortion.	The disc is dirty. Eject the disc and clean it. Some times a small amount of picture distortion may appear. This is not a malfunction.	33, 34
The unit does not start playback.	No disc is inserted. Insert a disc. An unplayable disc is inserted. Insert a playable disc (Check the disc type and colour system). Place the disc in the disc slot with the label side facing forward. The disc is dirty. Clean the disc. Cancel the parental lock function or change the parental lock level.	34 33 34 33 53, 55
X appears on the screen.	The function is prohibited with the unit or the disc.	36

- The LCD panel contained in this TV is manufactured using an extremely high level of precision technology, however there may be an occasional non-active pixel that may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

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Specifications

Model	19DV665DB / 19DV667DB	22DV665DB / 22DV667DB	26DV665DB
Television			
LCD panel (approximate screen size, diagonal)	18.51 inch	21.6 inch	26.0 inch
System	Analogue	PAL UK, IR, CCIR, French System, B/G, D/K, I/I, L/L ¹	
	Digital	DVB-T (OFDM 2k/8k 16QAM/64QAM)	
Video colour system	PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60		
Preset channels:	Analogue channels (99) + Digital channels (Carrier 200/Service1000)		
Frequency range	Analogue	IRA~S6, S7~S37, S38~E69	
	Digital	IRA~S6, S7~S37, S38~E69	
LCD	470 mm visible*	548 mm visible*	661 mm visible*
	TFT low-glass Active Matrix Colour LCD, 1366 x 768 Pixel		
Speaker	29x70 mm, 4 Ω x 2		43x111 mm, 6 Ω x 2
Audio output power	Approx. 1.5 W (MAX) x 2		Approx. 10 W (MAX) x 2
DVD			
Signal system	NTSC, PAL (Region 2)		
Applicable disc	DVD (12cm, 8cm), CD (12cm, 8cm)		
Output	Audio	(RCA) -12.0 dBm, 1 k Ω	
	Digital audio	0.5 Vp-p/75 Ω	
Pickup	CD	Wavelength: 775 - 805 nm Maximum output power: 0.5 mW	
	DVD	Wavelength: 640 - 660 nm Maximum output power: 1.0 mW	
Input/Output			
HDMI input	One HDMI-compliant (type A connector)		Two HDMI-compliant (type A connector)
	HDCP-compliant Suggested scan rates: PAL: 576i/576p/720p/1080i NTSC: 480i/480p/720p/1080i PC Audio: 2-channel PCM, 32/44.1/48 kHz sampling frequency 16/20/24 bits per sample		
S-Video input	(Y) 1.0 V (p-p), 75 Ω, 4-pin mini-DIN x 1 (C) 1.0 V (p-p), 75 Ω		Unavailable
Component video input	(Y) 1.0 V (p-p), 75 Ω, pin jack x 1 (PB, PR) 0.7 V (p-p), 75 Ω, pin jack x 2		
Video input	1.0 V (p-p), 75 Ω, pin jack x 1		
Audio input	-8dBm, 50 k Ω, pin jack (L/R) x 2		
PC input	Monitor: 15-pin mini-D-sub x 1; audio: 3.5-mm stereo jack x 1		
SCART terminal	One 21-pin SCART connector		Two 21-pin SCART connector
	Include audio/video input, RGB input, and TV audio/video output Video input/output: 1.0 V (p-p), 75 Ω RGB input: 0.7 V (p-p), 75 Ω Audio input: 50k Ω, 500m Vrms Audio output: 1k Ω, 500m Vrms		
Coaxial digital audio output	0.5 V (p-p), 75 Ω, pin jack x 1		
Headphone	3.5-mm stereo mini jack x 1		
General			
Power source	AC 110-240 V, 50/60 Hz		
Power consumption	Operation	Approx. 47 W at 230 V, 50 Hz	Approx. 64 W at 230 V, 50 Hz
	Standby	Approx. 0.8 W at 230 V, 50 Hz	Approx. 0.8 W at 230 V, 50 Hz
Weight	4.8 kg	7.8 kg	8.5 kg
Dimensions	Width	18.76 in. (476.4 mm)	21.65 in. (549.9 mm)
	Height	14.5 in. (368.4 mm)	16 in. (406.45 mm)
	Depth	2.63 in. (66.9 mm)	2.62 in. (66.75 mm)
Operating temperature	0 °C ~ 35 °C (32 °F ~ 95 °F)		
Accessories			
	Remote control 2 batteries (AAA/R03/UM-4) AC cord		Remote control 2 batteries (AAA/R03/UM-4) AC cord

*Visible screen size is approximate.

Notes:

- All weight and dimensions are approximate values.
- We continually strive to improve our products. Designs and specifications are subject to change without notice.

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Version 2, June 1991

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Gnomovision version 69,

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signature of Ty Coon, 1 April 1989

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The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

**Following information is only valid for EU-member States:
Disposal of batteries and/or accumulators**



The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

Hg Cd Pb



By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

Pb

In conformity with the EEE Regulation.



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