Colour LCD Television
with integrated DVD/CD-Player

HITACHI
Inspire the Next

Model Name

19LD5750U
22LD5750U

USER'S MANUAL
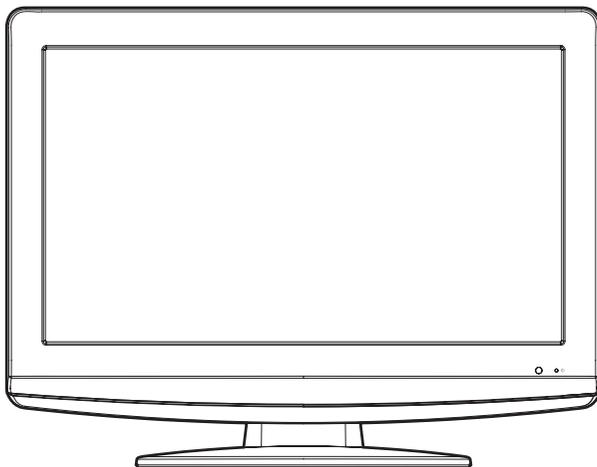
HD ready   **Freeview®**   **digital** ✓ Certification mark / Approved product   **DVB®**

Trademark of the DVB - Digital Video Broadcasting Project

DVD VIDEO   **COMPACT disc DIGITAL VIDEO**   **COMPACT disc DIGITAL AUDIO**   **MP3**   **DOLBY DIGITAL**   **Region** ②

READ THE INSTRUCTIONS INSIDE CAREFULLY.
KEEP THIS USER'S MANUAL FOR FUTURE REFERENCE
For future reference, record the serial number of your television.
SERIAL NO. _____
This serial number is located on the rear of the television.

Ver. 1

Important Warning

CAUTION:
A 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.

CLASS 1
LASER PRODUCT

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.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

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.

Battery notice (valid in EU only)
Look after our environment - contact your local authorities for advice on how to safely dispose of exhausted batteries. The crossed out wheelie bin symbol indicates that used batteries should not be disposed of with your normal household waste! A separate collection system for used batteries is in place to allow the correct treatment and recycling in accordance with current legislation. Please contact your local authority for details on collection and recycling schemes in your area.

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.

• A DVB-T antenna (not supplied) must be connected for DVB-T reception.
• 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).

Waste Disposal Tip
The above mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE).
The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries as unsorted municipal waste, but use the return and collection systems available. If the batteries or accumulators included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury, or more than 0.002% Cadmium or more than, 0.004% Lead.

* 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.

Contents

Features

TV
- LCD MONITOR
  Resolution: 1366 x 768 pixels
- On-Screen Language Display in 15 languages (English, Spanish, German, French, Italian, Swedish, Dutch, Russian, Portuguese, Turkish, Greek, Finnish, Polish, Danish and Norwegian)
- 99 analogue plus 1000 DVB-T Channel position memory
- Videotext – Fastext/TOPtext
- Remote control
- Sleep timer plus EPG-Timer
- Wide-aspect-screen
- Scart socket
- COMPONENT input
- S-Video input
- Headphone Jack (for mini plug)
- PC Connection (VGA) (see page 39)
- HDMI-connection
- CE Symbol Guaranteeing Compliance to Currently Effective European Standards

DVD Player
- Digital output for Dolby Digital (AC-3)
- Playback of DVD, VCD, SVCD, MP3/WMA/JPEG and Audio-CD

Contents

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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 be only be connected to an AC 220~240V / 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.
- Do not submerge in or under water!
- 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.
- Watch out for kiddies copying what adults do! Do not stick any objects through the vents!
- The vents must remain open! No newspapers or covers should be put on the unit!
- The remote control is not a toy! Toddlers could swallow the batteries. If a battery has been swallowed, please seek out a doctor immediately.
- The screen is made of glass and can break if damage is done to it. Be careful when collecting sharp-edged glass 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.
- 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 antenna. Caution: Do not touch the antenna 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.

Please pay attention to the following instructions in order to avoid receiving a life-threatening electric shock:
- Protect against moisture. Never use in the bath or sauna.
- Never use near a bath, shower or swimming pool.
- Never use the unit if it has got wet. This can also mean condensation moisture, which occurs in the winter when the cold unit is brought into a heated flat. Wait before operating the unit especially after it has been transported in the winter, until the cold unit has adjusted to the room temperature.
- Do not place any heavy objects on the flex. Electrical isolation could be damaged.
- Never wrap insulating tape around damaged flexes or on damaged plugs. These should be repaired or replaced by qualified service personnel.
- Never use this unit if the cabinet is defective. Do not make provisional repairs if the cabinet is damaged - this should be replaced by a new cabinet if necessary.
- Unplug the unit from the mains power supply prior to the cleaning of the unit.
- To prevent fire, never place any type of candle or open flame on the top or near the TV set.

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Important safety information

Moving the unit or carrying by hand

When the unit is moved a long way, unplug the power cord and disconnect the antenna, connecting cables and any fall-prevention apparatus.
• Moving without doing so could result in damage to the power cord, a fire, electric shocks or injuries from dropping the unit.

When the TV stand has casters, remove caster cups from the stand and push it while supporting the unit.
• Ensure that you support the unit when the stand is pushed, as this can cause the unit to fall and you could be injured.
• The appliance could leave indentations in wooden tables with extremely soft wooden surfaces due to its heavy weight.
• Furniture polish could corrode and dissolve rubber feet. Black imprints could be visible on the table. You should therefore only use TV benches, which have been constructed for this specific purpose.

Secure the casters when the unit is installed on a TV stand with casters.
• The stand can move and you could be hurt if the casters are not secured.
  Remove casters when the stand is placed on a soft surface such as a mat and carpet.

The distance between eyes and the screen should be about 5 ~ 7 times as long as diagonal length of the screen.
• Viewing from too close a distance can cause strain for your eyes.

When installing the Monitor on a table, be careful not to place the edge of its stand.
• This may cause the Monitor to fall, causing serious injury to a child or adult, and serious damage to the Monitor.

How to attach the stand

NOTE:
• Unplug the AC cord from the AC INPUT terminal.
• Before performing work spread cushioning over the base area to lay the TV on.
• Do not touch or press the TV-screen, glass might break under pressure.

1) Place the TV on its back onto a table.
2) Align the stand's bottom-plate (supplied) as seen here.
   It will fit in only one direction.
3) Press it in direction of arrow until 'click'.
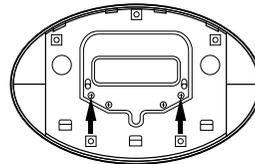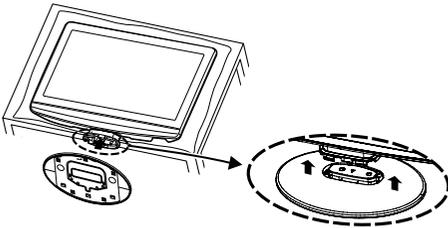
Finally secure the bottom-plate with 2 screws (included).

Please note "▼" mark on the stand is facing the LCD panel side.

Dismantling the base

For wall mounting, the base must be dismantled. To do this, remove 2 screws (M, see page 10) from the back. Take off the base entirely.

Important safety information

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 engrained 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, teletext pages, 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).

Attention!
Cleaning instructions for your LCD TV.

Safety note:
Before you start to clean, switch the set's power off completely and disconnect the plug from the mains power supply.

Be careful not to scratch the plastic coated front panel - it is highly vulnerable to accidental scratching (e.g. by fingernails or other sharp items). (While cleaning, do not wear jewelry) that could cause surface scratching (such as rings, wrist-watch, etc.). Use a lint-free cloth and pure water to clean with, but make sure the cloth is thoroughly wrung out so that it is just damp and not soaking wet - also make sure that the cloth is free from any dirt that could cause scratching to the surface.
Wipe the set clean using minimal pressure.
Do not use standard window cleaning fluid. Its alcohol / ammonia will dissolve the front window's coating. Never use solvent or thinner. Never use special cleaners which are designed for cleaning PC Monitors or CRT TVs. Finally carefully rub dry with a clean dry lint-free cloth.
Do not use paper towels or tissues to clean the set - paper can disintegrate when wet or may leave a trail of dust behind. Some paper can also be abrasive and scratch your screen.

DVD-Player
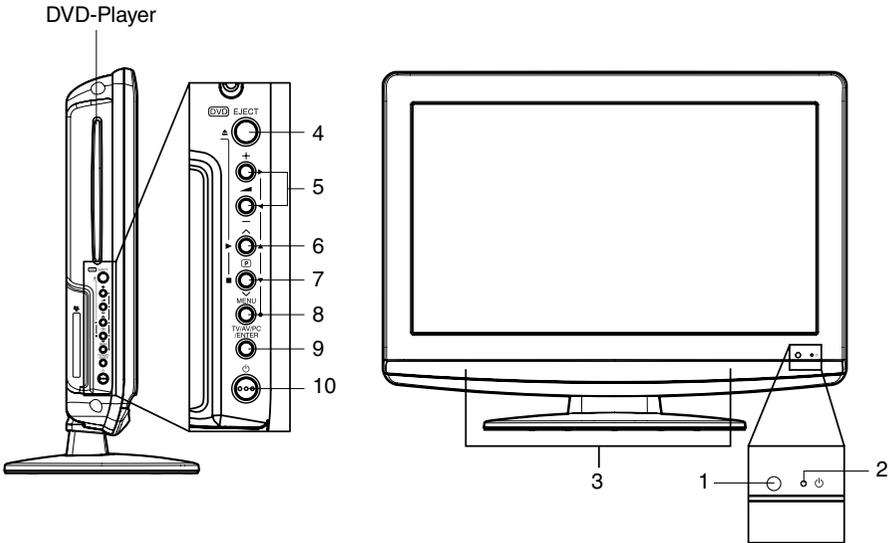
Description of Indicators and Controls

1. **Remote sensor**
2. ⏻ **(Standby/Timer/On) indicator:** The LED indicator lights up red in standby mode, orange in standby mode when the timer is activated, and green in the power ON mode.
3. **Loudspeakers**
4. **EJECT:** Eject a disc.
5. ◢ **(Volume) +/– buttons /** In Menu: Setting.
6. Ⓟ **(Channel) ∧/PLAY (▶) button:** Press ∧ to change to a higher numbered channel set into memory. DVD mode : Playback. In Menu: Setting. In Standby: Turning on the unit.
7. Ⓟ **(Channel) ∨/STOP (■) button:** Press ∨ to change to a lower numbered channel set into memory. DVD mode : Stop. In Menu: Setting. In Standby: Turning on the unit.
8. **MENU button:** To display the menu screen.
9. **TV/AV/PC/ENTER button:** Select input mode for TV/AV/COMPONENT/HDMI/PC/DVD. In Menu : Using as **ENTER** button.
10. ⏻ **(Power)-key:** Preparation: Connect power-cable to AC220~240V/50Hz.
    a) If standby-LED is red, you may power-off. To power-off, press power-key 1x and release. For confirmation, standby-LED will change to dark.
    b) If standby-LED is off, you may power-on. To power-on, press power-key 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 power-key 1x and release to power-off. For confirmation, standby-LED will change to dark. In power-off-condition, the TV's power-consumption is approx. 1 Watt. If total disconnection from the mains is required, pls unplug.

Remote Control
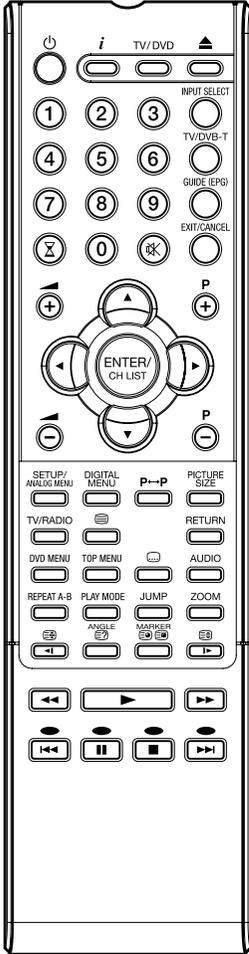
	Function	Page
⏻	Enter standby mode or turn on the power	11
i	Display program position number Teletext time display	13, 22, 29
TV/DVD	Select to operate TV/DVD	26
⏏	Eject a disc	26
(0) ~ (9)	Select channel Select Teletext page Enter password Activate the channel organizer function	13 13
INPUT SELECT	Select an input source	11
TV/DVB-T	Switches between the analogue TV and the digital TV	18
GUIDE (EPG)	Display the EPG (Electronic Progr. Guide)	23
🕗	Sleep Timer	13
🔇	Turn the sound on/off	13
EXIT/CANCEL	Exit the menu screen Cancel marking	27
Volume	Volume	13
P	Change the TV channel or Teletext page up or down In Standby: Turn on the power	13 11
Cursor buttons	Cursor buttons	
ENTER/CH LIST	Memorize Teletext page 100 CH LIST	14 13
SETUP/ANALOG MENU	Call Setup menu Activate the analogue menu	33 11
DIGITAL MENU	Activate the digital menu	18
P↔P	Switches between the present channel and the last selected channel	13
PICTURE SIZE	Select picture format	16
TV/RADIO	Toggle between the TV and radio mode	22
	Teletext ON / TV+Text / OFF	13
RETURN	Remove DVD set up menu	33, 37
DVD MENU	Select menu of a DVD disc	28
TOP MENU	Select title of a DVD disc	28
	Display the subtitle	23, 29
AUDIO	Display the multi audio menu Change sound track language of DVD	23 29
REPEAT A-B	Repeat playback between A and B (DVD/CD)	28
PLAY MODE	Select playback mode	28, 32
JUMP	Locating desired scene	27
ZOOM	Zoom (for DVD playback)	27
	Hold the text page (DVB only) Reverse slow motion	14 27
ANGLE	Change playback angle of a DVD disc Reveal quiz page answers	28 14
MARKER	Marking desired scene Sub page selection	27 14
	Teletext enlargement Forward slow motion	14 27
	DVD control buttons	26, 27
	Fastext/TOPtext buttons DVD control buttons	13 26, 27

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Remote Control

Install the batteries
Use batteries type UM3 (AA-Size).
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.
Note:
Exhausted batteries can leak corrosive electrolyte, which may cause damage to the remote control - therefore remove exhausted batteries immediately.

1 Open the battery compartment.
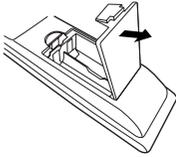
2 Install the batteries as shown below, ensuring the correct polarity.
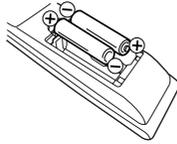
3 Close the battery compartment.
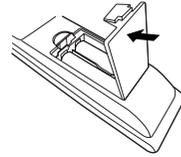
Distance of Remote Control Operation

Point the remote control directly at the remote sensor.

Remote sensor

Maximum distance approx. 5m

30° 30°

Transmitter window
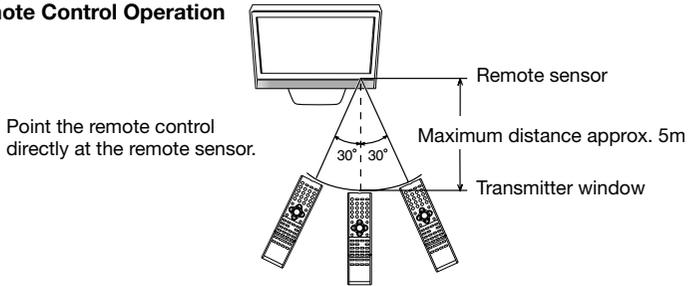
The remote control handset will not work properly in the following cases:
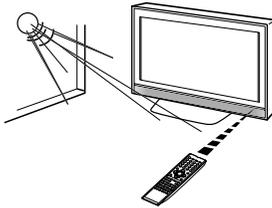
a) If bright sunlight directly beams onto the unit front.

b) If an obstacle is placed between the unit and the handset.
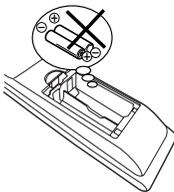
c) If the batteries have not been installed according to their polarities.
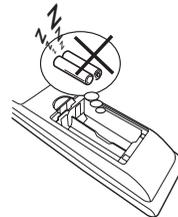
d) If the batteries are weak.

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Antenna 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 antenna as shown below (J). Connections to other equipment is explained further on P.41~43. If you have problems with reception, consult a specialist of antenna.

Back Side

(A) **Power supply:** Connect the supplied power cable to an AC 220-240V/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 insulation 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) **HEADPHONE jack:** Plug headphones with a mini plug (3.5 mm) into this jack.
(C) **COMPONENT input:** See P.43.
(D) **AV2 input:** Input for analogue AV-Signal (Composite or S-Video). See P.43.
(E) **DVB-T Digital audio output:** digital output for CD/DVD & DVB-T (see page 42).
(F) **PC MONITOR input (PC):** See P.39.
(G) **PC/HDMI AUDIO input:** See P.39, 40.
(H) **HDMI input :** See P.40.
(I) **Scart socket (AV1):** For the connection of scart cable. See P.41~43.
(J) **ANT:** Plug in the antenna (aerial) here.
(K) **C.I. slot:** for DVB-T-PayTV (see page 22).
(L) **Bracket holes:** Fix a wall mounting bracket (not supplied) here.
(M) To hang the television on a wall, remove these screws and then remove a stand. Before performing work spread cushioning over the base area to lay the TV on.

Auto setup

Your unit has an Automatic installation 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 (eg. Satellite or Digital Terrestrial) connected (see P.41), you would need to tune it in separately according to its own instructions.

Preparation:
Press ⏻ (Power) on the unit or press ⏻ (On/Standby) on the remote.

1 AUTO INSTALLATION menu will appear.

AUTO INSTALLATION
● LANGUAGE   ENGLISH

Press ▲ or ▼ to select the first line, then press **ENTER**. Press ◄ or ► to select desired language. Then press **ENTER**.

2 Press ▲ or ▼ to select COUNTRY, then press **ENTER**.

AUTO INSTALLATION
● LANGUAGE   ENGLISH
● COUNTRY   UK
● AUTO TUNING

Press ◄ or ► to select your country. Then press **ENTER**.

3 Press ▲ or ▼ to select AUTO TUNING, then press **ENTER**.
The confirmation screen will be displayed. Press **ENTER** to start automatic tuning. Your TV will now automatically tune in all available channels.
Your TV will tune the analogue channels first, then tune the digital channels.

Note:
• **Please be patient - the Auto Tuning process can take several minutes to complete.**

When the programme on the screen stops changing and the sound comes on, the search process is complete.

Note:
• To cancel the Auto Tuning, press **EXIT** during the process.
• If on the "AUTO INSTALLATION (COUNTRY)" screen "UK" is selected, "Change No." and "Move To" cannot be used in U.K. (see page 20)

THE AUTOMATIC TUNING PROCESS WILL ONLY START BY ITSELF THE FIRST TIME YOU SWITCH THE SET ON. HOWEVER YOU CAN RESTART THIS PROCESS VIA THE MENU SYSTEM (see page 12 for analogue channels, and page 18 for digital channels).

Quick guide for ANALOG MENU operation

Make sure the antenna connection and power supply are connected as per the description on previous page.

Preparations:
• Turn on the unit with the ⏻ (Power) button on the unit. The ⏻ (On/Timer/Standby) indicator will light up in green.
To change the unit to standby mode, press ⏻ on the remote control. ⏻ (On/Timer/Standby) indicator will change from green to red. To turn on the unit from standby mode, press ⏻ on the remote control again.
In standby mode, you can also turn the unit on with Ⓟ (Channel) ∧/∨ on the unit or **P + / –** on the remote control.
To turn off the unit press ⏻ (Power) button on the unit - to completely switch it off, disconnect the mains power supply.

Call ANALOG MENU and for example: Select AUTO TUNING.

1 Press **INPUT SELECT**.
Select ATV. Press **ANALOG MENU**.

2 Press ◄ or ► to select 🛠.

3 Press ▲ or ▼ to select AUTO TUNING, then press **ENTER** to enter the AUTO TUNING menu.

● AUTO TUNING
● MANUAL TUNING
● CH ALLOCATION
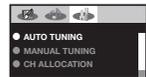
... on the following pages the MENU can be called in the same way as here.

4 Press **EXIT** to return to the normal screen.

Note:
• If no buttons are pressed for more than approx. 60 seconds, the MENU disappears automatically.

Selecting the video input source

Press **INPUT SELECT** 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 which input jacks you used to connect your devices.

To select the video input source, press ▲/▼.
Then press **ENTER** within 6 seconds.

INPUT SELECT
● ATV
● DTV
● AV1
● AV2
● COMPONENT
● HDMI

11
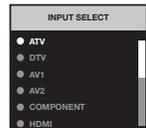
On-screen Language Selection

1 Select LANGUAGE (unless you have already selected when the set was first switched on). Then press **ENTER**.

```
🔲 📺 🔊
● AUTO TUNING
● MANUAL TUNING
● CH ALLOCATION
● LANGUAGE      ENGLISH
● VERTICAL POSITION    0
● AUTO 4:3 DEFAULT
                   16:9
◄▶    ENGLISH
```

2 Press ◄ or ► to select the desired language.

3 Press **EXIT** to return to the normal screen.

Automatic station presetting with the built-in Tuner

Perform this feature to search for and store new analogue TV programmes after the Automatic installation. (P.11)

Preparation:
Make sure your antenna is connected to the antenna input (see P.10). Select ATV (see P.11). Then press **ANALOG MENU**.

1 Select AUTO TUNING, then press **ENTER**.

2 Select COUNTRY, then press **ENTER**.
Press ◄ or ► to select your country, then press **ENTER**.

```
🔲 📺 🔊
● COUNTRY       UK
● START
```

3 Select START. Then press **ENTER**.
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 programs have been stored, the normal TV screen will appear.

Note:
• To restart digital auto tuning, see page 18.
• When the COUNTRY is set to UK, the automatic tuning will search for UHF broadcasts only.

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.

1 Press **ANALOG MENU**. Select CH ALLOCATION. Then press **ENTER**.

2 Select desired option, then press **ENTER**.

```
🔲 📺 🔊
● SORT
● ERASE PROGRAM
● SKIP
● CH LABEL
```

3 After setting the each option, press **ANALOG MENU** to return to CH ALLOCATION memu.

4 Press **EXIT** to return to the normal screen.
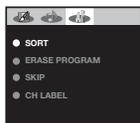
Note:
• When changing the order of the channels, it is best to start with CH1.

Description about the each setting option:
SORT: Press ▲ or ▼ to select the channel that you want to move, then press **ENTER**.
Press ▲ or ▼ to select the position that you want to move the channel to, then press **ENTER**.
ERASE PROGRAM: Press ▲ or ▼ to select the channel that you want to erase, then press **ENTER**.
SKIP: Press ▲ or ▼ to select the channel that you want to skip, then press **ENTER**. ✳ mark will appear.
CH LABEL: Press ▲ or ▼ to select channel that you want to rename, then press **ENTER**. Press ▲ or ▼ to select character, then press ◄ or ►. The cursor will move to the next position. Press **ENTER** to set the channel label.

Manual TV station presetting

If you like, you may manually tune a certain station into a selected memory-cell, without deleting or modifying other memory-cell's contents. Example: Store the BBC 2 into memory-cell 2.

1 **Preparation:** Select ATV (see page 11). Select memory-cell 2. Press key **2** (see page 13). OSD will indicate ⬜2 in right upper corner. Eventually recently stored TV-channel's name might also appear.

2 Press **ANALOG MENU**. Press ◄ or ► to select tool-page. Press ▲ or ▼ to select MANUAL TUNING. Press **ENTER**.

3 COLOUR SYSTEM and SOUND SYSTEM has already been preset to AUTO. Do not touch.

4 Press ▲ or ▼ to select SEARCH. Press **ENTER**. Press ◄ or ►-key, to start tuning. Tuning will stop automatically at next available station. If this does not happen to be the BBC 2,

```
🔲 📺 🔊
● SEARCH
● FINE          168.30MHz
● COLOUR SYSTEM   AUTO
● SOUND SYSTEM    AUTO
◄▶  BBC 2   175.30MHz
```

press ◄ or ►-key again to continue tuning for the BBC 2. Then press **ENTER**.
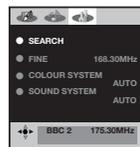
5 If you like use fine-tuning. Select FINE and press **ENTER**. Press ◄ or ►, to fine tune. See the note on this page.

6 To store other stations in additional memory-cells, repeat steps 1 to 5.

7 Press **EXIT** to return to the normal screen.

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.

Basic Operation

Channel selection
With the **numbered buttons**.
Example:
• No. 2: Press **0** and within 2 seconds, press **2**.
• No. 29: Press **2** and within 2 seconds, press **9**.
Press **P +** or **–** to change up or down 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 P.12).

CH LIST
The CH LIST shows a list of all receivable programmes. They are located in channels 1 to 99.
Press **CH LIST** to display the CH LIST.
Press ▲ or ▼ to select the desired channel.
Press **CH LIST** to display the selected channel.
Press **EXIT** to exit.

QuickView
P↔P button allows you to go back to the last selected channel.

Volume adjusting
Press ◢ **+** or **–** to adjust the volume.

MUTE
Press ◌̸. The sound will be cut off. MUTE will appear for approx. 4 seconds.
The muting can be released by pressing ◌̸ again or ◢ **+** or **–.**

Information display
In the analogue TV mode: Press *i*. Channel number and picture size setting will appear for approx. 4 seconds.
In the digital TV mode: Press *i*. The program information will appear (see 'Channel banner' on page 22).

SLEEP TIMER
To set the sleep timer press ⧗. SLEEP and the minutes until shut-off will appear. Each time you press ⧗ the SLEEP time shown will change. When the displayed time runs out, the unit will switch to standby.

To cancel the sleep timer:
Press ⧗ repeatedly until '0' appears.

Note:
• SLEEP TIMER can also be set in the SLEEP TIMER-menu (see p.17).

Note:
• If the built-in tuner does not receive anything (e.g. if no antenna is connected) during TV-operation, then the TV-unit will change to standby after approx. 15 minutes.

Teletext (analogue)

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 on / off Teletext
Teletext is not transmitted by all channels.
Select a channel that shows teletext.
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.)
Press ▤ again. The TV-screen will be split into two and both Teletext information and actual broadcast will be displayed at the same time.
Press ▤ again in order to switch off teletext.
Press ▤ again in order to switch on teletext again. The last page which was stored is now shown.
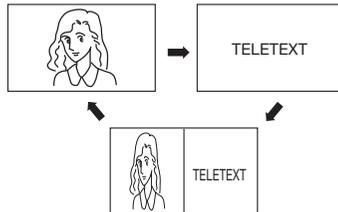
Note:
• You cannot select any other channels as long as teletext is switched on. Switch teletext off when you want to switch over to another channel.

Select Page
Press **P +** or **–** until the page you desire appears. Or ... enter the requested page number by using the **10 Number Buttons**.
And if you mistype 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 that a page from Fastext/TOPtext is shown.

13

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

You can directly select the subpages if required.

Example:

Page 128 from ARD (German teletext) comprises of 2 subpages. In the right upper corner you will, for example, see 1/2. That means that page one of 2 subpages is being shown at the moment.

```
128  128 ARD-Text  21.07.03  15:01:38
                                  1/2
```
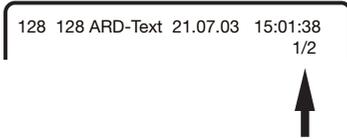
Press ▤ ▤ in order to select subpage 2. 4 dashes (----) are shown. Enter **0 0 0 2**. It can take a minute before subpage 0002 appears.

Press ▤ ▤ again in order to switch off the subpage feature.

You can only select other teletext pages when the subpage feature is switched off.

Enlargement

In order to enlarge the display, press ▤.

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

Each time you press ▤ you switch between the display of the upper or lower half of the screen or the full picture.

Answering Quiz Questions

Some pages contain quiz questions with concealed answers.

Press ▤ in order to show the answers.

Page 100

Press **ENTER** 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 Select NICAM, then press **ENTER**. Press ◄ or ► to select AUTO or OFF. Select OFF if you do not want to receive NICAM sound.

NICAM	AUTO
BASS	25
TREBLE	25

2 Press **EXIT** 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 ST

'NICAM M1' illuminates for approx. 4 seconds when a NICAM MONO A broadcast signal is received.

NICAM M1

'NICAM M1/M2' illuminates for approx. 4 seconds when a NICAM MONO A and MONO B broadcast signal is received.

NICAM M1 / M2

This will be displayed for approx. 4 seconds if a NICAM signal is received when the 'NICAM OFF' option is selected.

NICAM OFF

Note:
• In case of bad reception, the stereo sound also can be disturbed.

Picture size and resolution

Resolution and picture quality

Broadcast wide screen films in different resolutions. The following table shows the resolution options for wide screen film broadcast media.

Resolution of the wide screen signal	Broadcast media						
	Analogue cable TV	Digital cable TV	DVB-T	Satellite (DVB-S)	DVD	HDTV Satellite (DVB-S2)	Blu-Ray-Disc
432i x 704 (Letterbox)	Yes	Yes	Yes	Yes	Yes	Yes	No
576i x 704 (anamorphic)	No	Yes	Yes	Yes	Yes	Yes	No
720 x 1280 (HD)	No	No	No	No	No	Yes	Yes
1080i x 1920 (HD)	No	No	No	No	No	Yes	Yes

Best image quality results when the inputted resolution received corresponds with the resolution of the used TV appliance. The 19LD5750U/22LD5750U has a resolution of 1366x768, its picture format therefore corresponds with 16:9. As a result best image quality results with a picture signal of 1280x720 or higher.

The low resolution of analogue cable TV is not recommendable for HD ready appliances resulting in poorest visual image quality. Analogue cable TV is however completely sufficient for analogue tube TV appliances.

Picture quality and black bars

Wide screen films come in different formats. The format is the relationship between the width and height of the picture. For example, with a 16:9 film the width to height ratio is 16:9 or 1.78:1. Only 16:9 films can fill a HD ready screen without black bars. Therefore, black bars are always visible when a format other than 16:9 is received. E.g. 4:3, A 4:3 displays vertical black bars to the right and left.
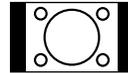
4:3 picture 1:1 on 16:9 screen

If a 4:3 picture is increased to 16:9 format then it either appears distorted (see illustration) or some parts of the picture are cropped off at the top and the bottom. This is completely normal and is not a fault in the wide screen TV.
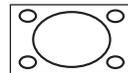
4:3 picture zoomed on 16:9 screen

Super Cinemascope films are wider than 16:9 films. They are in the format 2.4:1 or 22:9, for example. This is clearly wider than16:9. Therefore, Super Cinemascope films display black bars at the top and bottom on any HD ready TV set. The 19LD5750U/22LD5750U cannot remove the black bars from Super Cinemascope films.

Picture format and resolution

There is no connection between the picture format and the resolution received. For example, the Super Cinemascope format can be received in all resolutions, even in the HD resolution1080ix1920. For HDTV reception too an HD ready set may display black bars at the top and bottom.

Picture format

Picture Size
The required picture format can be set by pressing the **PICTURE SIZE** button. Press **PICTURE SIZE** until the required format is displayed.

Tip: The picture goes dark for a short time every time the button is pressed before appearing in the required format.

You move through the following formats when you press the button: AUTO, 4:3, 16:9, CINEMA, 14:9 REAL (HDMI only).

AUTO
The picture is automatically only then shown in a format-filling display when a WSS-TV signal is received.

Example:
If the analogue tuner receives a letterbox image with WSS signal then the resulting image looks like this:
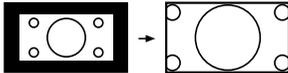

illustration 1:
Letterbox image is increased

WSS:
Public broadcasters include 16:9 identification, the WSS signal (WideScreenSignalling), during transmission in order to ensure automatic conversion to 16:9.

Most private broadcasters do not transmit a WSS signal. Their 16:9 films are always broadcast in letterbox format. AUTOmatic does not recognise anything without WSS signal and does not automatically alter the picture size. Use the **PICTURE SIZE** button to set the required picture size for private channels.

If AUTO is set then the built-in tuner checks whether the WSS signal is present after every switch-over to another programme.

If the WSS signal is rediscovered the screen goes intermittently black.

The picture can also go black during adverts when adverts are transmitted in both 4:3 and 16:9 .

Switch off AUTOmatic if you are bothered by the intermittent darkness of the picture. Switch off AUTOmatic by pressing the **PICTURE SIZE** button until the required format appears, e.g. 16:9.

Other formats
Press **PICTURE SIZE** until the desired size is reached.

4:3
The picture is displayed in 4:3 format with black bars to the right and left.
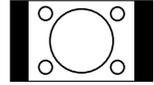
16:9
The width of the picture will be zoomed evenly. **16:9** is particularly suitable for DVD players, DVB-T, DVB-C and satellite receivers, which can transmit and show 16:9 feature films without black bars. In the set-up menu of the set, adjust it to show that a 16:9 TV set is connected.

CINEMA
Use CINEMA to increase a small 4:3 letterbox signal. How do you recognise whether the broadcasting station / the set operating is using a 4:3 letterbox signal that is too low? Press the **PICTURE SIZE** button on the remote control until the 4:3 format appears. If the picture is surrounded by a black border as in the illustration, this is a 4:3 letterbox signal. Limited by the broadcasting station / the set operating, this signal is much too low for a 16:9 HD ready screen. CINEMA increases this picture that is too small as far as possible. Natural visible poor focus emerges, rather as if a postcard were being increased to poster size. This unfocused appearance is conditioned by input signals that are too low and is in no way a production fault in this TV set.

4:3 Letterbox picture increased to CINEMA format.

14:9
The picture is increased somewhat but not up to the full screen width. Black bars remain on the right and left and also at the top and bottom.

REAL (HDMI mode only)
The picture is displayed with original size.

Note:
- The picture size cannot be adjusted in PC operation.
- For 720p and 1080i signals the PICTURE SIZE feature is available only for 16:9 or REAL (HDMI only) format.
- External receivers can automatically adjust the picture size via a SCART cable. Please read the instructions for the external receiver.

Other convenience functions

You can change the default settings to convenience use.

Icon	Selected Items		Setup hint
🖼	PICTURE PREFERENCE	SPORTS	Bright and dynamic picture (factory-set)
		STANDARD	Standard picture quality (factory-set)
		MOVIE	Movie-like picture setting (factory-set)
		MEMORY	Your personal preferences
	BRIGHTNESS / CONTRAST / COLOUR / TINT(NTSC) / SHARPNESS		You can adjust the picture to your preference. The "TINT(NTSC)" option can be selected if an NTSC 3.58MHz or NTSC 4.43MHz signal is input through one of the AV sockets, and NTSC or AUTO has been selected for the AV COLOUR option.
	COLOUR TEMPERATURE		Bluish (COOL) / Neutral (MEDIUM) / Reddish (WARM)
	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.
	BACKLIGHT		You can use the Back light feature to adjust the screen brightness for improved picture clarity.
	RESET		Select "RESET" to reset PICTURE PREFERENCE, BRIGHTNESS, CONTRAST, COLOUR, TINT(NTSC), SHARPNESS, COLOUR TEMPERATURE and BACKLIGHT to the factory preset values.
🔊	NICAM		See page 14.
	BASS / TREBLE / BALANCE		You can adjust the sound quality to your preference.
	HDMI AUDIO		See page 40.
	RESET		Select "RESET" to reset BASS, TREBLE and BALANCE to the factory preset values.
📺	AUTO TUNING		See page 12.
	MANUAL TUNING		See page 12.
	CH ALLOCATION		See page 12.
	LANGUAGE		See page 12.
	VERTICAL POSITION		When the CINEMA mode is selected (see page 16), you can adjust the vertical picture position. Press ◄ or ► to adjust the vertical position of the picture by up to +10 and downwards by up to -10.
	AUTO 4:3 DEFAULT [*1]	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.
	SLEEP TIMER	0~120 min (every 10 minutes)	You can set SLEEP TIMER to automatically turn off the TV. To cancel the SLEEP TIMER, set to "0".
	AV1 OUTPUT		This determines whether the AV1 outputs the signal from the internal tuner or whatever input is shown on the screen.
		TV	Outputs the last channel position selected.
		MONITOR	The picture displayed on TV-screen.
	AV COLOUR [*2]		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 23 for further details.
	RESET TV SETTING		Prees **ENTER** to enter the RESET TV SETTING screen. Prees ▲ or ▼ to select "YES", then prees **ENTER**. Reset the TV function will now begin, and this unit will automatically turn off.

Note:
[*1] AUTO 4:3 DEFAULT is available only for AUTO picture size setting.
[*1] In COMPONENT and HDMI mode, AUTO 4:3 DEFAULT is available only for 480i/576i mode.
[*2] PAL is the colour system used in UK. NTSC 3.58 is used in the USA, PAL 60 used in UK handled video recorders, which play NTSC video tape recording.
If the picture shows horizontal stripes, set to AUTO.

17

Language Setup

Preparation:
Switch on appliance. Press **TV/DVB-T**.
The appliance switches over to DVB-T-mode.

1 Press **DIGITAL MENU**, the menu will appear on the screen.

Main menu	Language Setup
ABC	

Language Setup

Press ◄ or ► to select Language Setup option, then press **ENTER**.

2 Language Setup menu will appear.
Press ▲ or ▼ to select the item you want to change.
Press ◄ or ► to select desired language.

Language Setup	
Menu Language	◄ English ►
Pref. Audio Language	English
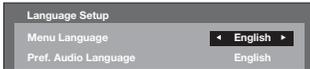
3 When all changes are decided, press **EXIT** to return to the normal screen.

Auto Scan

Preparation:
Please ensure that all the connections have been made correctly (see page 10).

1 Press **DIGITAL MENU**. Press ◄/► or ▲/▼ to select 'Auto Scan' then press **ENTER**.

2 The confirmation banner will be displayed.
Press ◄ or ► to select 'Yes' or 'No', then press **ENTER**.

3 The Auto Scan process will now begin.
The scanning process will be displayed in the progress bar.

Carrier	:1
Frequency (kHz)	:562000
— Searching... —	
Progress	
▼▲	◄► Navigate	Exit
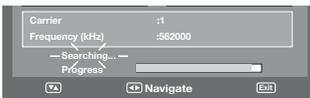
Note:
• If "FINLAND" is selected on the "AUTO INSTALLATION (COUNTRY)" screen, two languages are displayed for each item and the first selected language has priority. The language output depends on the languages contained in the broadcast.
• All the channels will be deleted before the scanning process begins.
• You can cancel the scan process at any time by pressing **EXIT**. The carriers and the services stored before **EXIT** is pressed will be stored.

Manual Scan

With the Manual Scan option, you can tune one carrier at a time, by entering the carrier parameters manually.

1 Press **DIGITAL MENU**. Press ◄/► or ▲/▼ to select 'Manual Scan', then press **ENTER**.

2 You can choose the carrier number from the Channel list by using ◄ or ► and the corresponding frequency set for the carrier will be set for tuning.
Otherwise you can also directly enter the frequency value to start the tuning.

Manual Scan	
Channel list	◄ Ch-21 ►
Frequency (kHz)	474000
▼▲	◄► Navigate	0..9	Enter	Exit

3 After setting the carrier, press **ENTER** to start the scanning. During the scan process, the list of services (TV/Radio) collected for the carrier will be listed.

4 Then the confirmation banner will be displayed.
Press ◄ or ► to select 'Yes' or 'No', then press **ENTER**.

5 Press **EXIT** to return to the normal screen.

Note:
• If on the 'AUTO INSTALLATION (COUNTRY)' screen 'FINLAND' is selected, 'Frequency (kHz)' cannot be used.
• **When the Country is set to FINLAND in the 'AUTO INSTALLATION (COUNTRY)'**
If there is a Channel List in the data after Auto Scan or Manual Scan, Channel Type Selection Menu will be displayed and available to set Channel List Type. Select the Channel List Type by pressing ◄/► and press **ENTER**
• If "FINLAND" is selected on the "AUTO INSTALLATION (COUNTRY)" screen, Data is displayed on the "Carrier Setup" screen.

Carrier Setup

The Carrier setup option menu lists all the carriers (multiplexes) that are currently available and allows you to Rename, Delete or Rescan carriers individually.

1 Press **DIGITAL MENU**. Press ◄/► or ▲/▼ to select 'Carrier Setup' then press **ENTER**.

2 All the carriers are listed with their frequency and service information - the user can scroll through the carrier list and select each one individually to Rename, Delete or Rescan.

3 **Rename:**
Select carrier, then press **Red** button. The alphanumeric keypad will appear. You can rename a service as per your preference (see page 20).

Delete:
Select carrier, then press **Green** button. The check mark (⊘) will be displayed for selected carrier. Then press **ENTER**. The confirmation banner will be displayed.
Press ◄ or ► to select 'Yes' or 'No', then press **ENTER**. If the option 'Yes' is selected then all the marked carriers will be deleted from the list.

Rescan:
Rescan allows to tune the already tuned carrier, to collect any new programmes that are currently available in the stream. Press **Blue** button, to rescan the current selected carrier.

Channel Organizer

The Channel Organizer feature provides options to organise the channels. The following options are supported: Lock, Skip, Go To, Delete, Rename, Move, Change No. and Move To.

1 Press **DIGITAL MENU**. Press ◄ or ► to select Channel Organizer option, then press **ENTER**.

2 The Channel Organizer menu will appear. The available programmes will be listed, depending on the current mode. The selected programme will be highlighted.
To toggle within the service list, press ▲ or ▼ .

Channel Organizer					TV
S.No	Service Name	Lock	Skip	Del	Move
671	MNO				
672	PQR				
673	STU				
674	TCM				
679	VWXYZ				
800	SAT.1				
672	ARTE				

1. Lock	4. Delete	7. Change No.
2. Skip	5. Rename	8. Move To
3. Go To	6. Move	

TA   Navigate 0..9 D.Menu Exit TV/Radio

3 By pressing the corresponding **Number Button (1-8)** key, you can activate the following functions from this menu for each channel: Lock, Skip, Go To, Delete, Rename, Move, Change No. and Move To. (You can deactivate each of these functions by pressing the same number again.) See page 20 for setting details.

Indications:

S.No	Service Name		Lock	Skip	Del	Move
030	CBBC	♿	🔒	↪	⊗	⊘

Service number
Service name
Pay channel
Skipped service
Locked service
Delete mark
Move mark
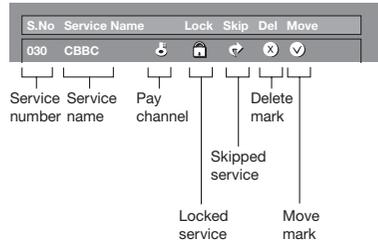
Note:
- While in TV mode, only TV programmes will be displayed and only radio programmes will be displayed while in radio mode.
- The displays of Channel / Service name will be abbreviated depend on its size of the letter.

Channel Organizer

Setting details

Lock	When the service is locked, you must enter your PIN whenever you tune to the service. ① Press ▲/▼ to select the desired service. ② Press **1** on the remote control. If you already set the PIN, enter it here. If not, enter the factory preset PIN "0000". An icon displays indicating the service is locked. • Pressing **1** will turn the lock icon on and off. (PIN entry is required.) ③ Press **DIGITAL MENU**.
Skip	Services that are set to skip will not be picked up when pressing **P +/-**. ① Press ▲/▼ to select the desired service. ② Press **2** on the remote control. An icon displays indicating the service to be skipped. • Pressing **2** will turn the skip icon on and off. ③ Press **DIGITAL MENU**. • To view services that are set to be skipped, use **0-9** or select from the Channel List.
Go To	Use this function to jump to the specific service in one step. This is useful when there are many services displayed on screen to scroll through. ① Press **3** on the remote control. Now you can change the service number on the left side of the screen. ② Enter the number using **0-9**, and then press **ENTER**. The highlight moves to the selected service.
Delete	Delete the selected service(s) from the memory. ① Press ▲/▼ to select the desired service. ② Press **4** on the remote control. An icon displays indicating the service to be deleted. • Pressing **4** will turn the delete icon on and off. ③ Press **DIGITAL MENU**. A confirmation message displays. ④ Press ◄/► to select "Yes", and then press **ENTER**.
Rename	Change individual service names. ① Press ▲/▼ to select the desired service. ② Press **5** on the remote control. A character set screen displays. ③ Enter new name for the service. ④ Press **DIGITAL MENU**. A confirmation message displays. ⑤ Press ◄/► to select "Yes", and then press **ENTER**.
Move	Sort the order of the selected service by moving the service position. ① Press ▲/▼ to select the desired service. ② Press **6** on the remote control. An icon displays indicating the service to be moved. • Pressing **6** will turn the move icon on and off. ③ Move the selected service to the desired position using ▲/▼, and then press **ENTER** to register the change.
Change No. *	Change service number. ① Press ▲/▼ to select the desired service. ② Press **7** on the remote control. Now you can change the service number on the left side of the screen. ③ Enter the number using **0-9**, and then press **ENTER**.
Move To *	Sort the order of the selected service by modifying the service number. ① Press ▲/▼ to select the desired service. ② Press **8** on the remote control. Now you can change the service number on the left side of the screen. ③ Enter the number using **0-9**, and then press **ENTER**. The service moves to the new position.

Note:

* If on the "AUTO INSTALLATION (COUNTRY)" screen "UK" is selected, "Change No." and "Move To" cannot be used in U.K.

Display Setup

1 Press **DIGITAL MENU**. Press ◄/► or ▲/▼ to select 'Display Setup', then press **ENTER**.

2 Display Setup menu will appear.
Press ▲ or ▼ to select the item you want to change.
Then you can change each setting by pressing ◄ or ►.

Banner timeout	1 Sec, 2 Sec…. 7 Sec	Select how long the service banner information appears on screen.
Banner position	Top	Select whether the service banner information appears on top or bottom of the screen.
	Bottom	

3 After all the changes are made, press **EXIT** to return to the normal screen.

Time Setup

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

1 Press **DIGITAL MENU**. Press ◄/► or ▲/▼ to select 'Time Setup', then press **ENTER**.

2 Time Setup menu will appear.
If the time displayed on the Channel banner differs from the actual time, adjust the time offset with the ◄ or ► button until the correct time is shown.
Note:
• Normally, this would be done by selecting "Auto".

3 After all the changes are made, press **EXIT** to return to the normal screen.

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**. Press ◄/► or ▲/▼ to select 'Password Setup', then press **ENTER**.

2 'Enter Password' will appear. Press '0 0 0 0' using the **Number Buttons**. (This is the default password.)

3 Press ▲ or ▼ to select 'Parental Lock', then press ◄ or ► to select desired parental rating (see note). Then press **EXIT** to return to the normal screen.

4 You can also change the password using the next option.
Press ▲ or ▼ to select 'Change password'.

Then enter your chosen new password (be sure to remember this password). After you have entered the new password for the first time, you need to enter the same password again for confirmation. The Information banner will then appear.

Press **EXIT** 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 22).

Note:
• There are 15 age-based ratings, ranging from '4' (years old) to '18' (years old) and 'None'. Eg. 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.

Version

You can check the software and hardware versions.

1 Press **DIGITAL MENU**. Press ◄/► or ▲/▼ to select 'Version', then press **ENTER**.
The hardware and software versions are displayed.

Software Upgrade

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

1 Press **DIGITAL MENU**. Press ◄/► or ▲/▼ to select 'Software upgrade', then press **ENTER**.

2 If a software upgrade is available from an Over- Air-Download (OAD) then the message 'S/W available, do you want to download?' will be displayed - you can then select 'Yes' or 'No' by pressing ◄ or ►, then press **ENTER**.

3 If you select the option 'Yes' then the Software Upgrade process will be initiated. It will take about 20 minutes and after this process is complete, the TV will be rebooted automatically.

If you select the option 'No' you can continue to watch TV programmes as before.

4 Press **EXIT** to return to the normal screen.

Note:
• 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.

Common Interface

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

Preparations
Insert CAM into the DVB Common Interface slot on the backside of the TV (see page 10).

1 Press **DIGITAL MENU**. Press ◄ or ► to select 'Common Interface' option, then press **ENTER**.

2 The CAM module name will be displayed. You have to press **ENTER** to view further information.

3 In the CI Menu, CAM specific information such as Module information, Smart card information, Language and Software Download are shown.
Press ▲ or ▼ to select information, then press **ENTER** to see detail.

4 Press **EXIT** to return to the normal screen.

Channel list

1 Press **CH LIST** to display the Channel list menu.

Channel list TV

S.No	Services
671	MNO
672	PQR
673	STU
674	TCM
679	VWXYZ
800	SAT.1

List of the services

▼▲ Navigate (Enter) (Exit) (TV/Radio)
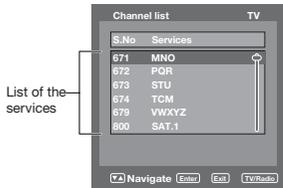
2 **Select the Services:**
List of the services will be displayed in the left side of the menu.
Press ▲ or ▼ to toggle within the service list, then press **ENTER**.

Toggle between the list of TV and Radio services:
The **TV/RADIO** key is used to toggle between the TV and Radio mode. If you press **CH LIST** when you are in Radio mode then the channel list menu will display the list of Radio services. If you wish to view the list of TV services without exiting the current menu, **TV/RADIO** key should be pressed once.

Note:
• The displays of Channel / Service name will be abbreviated depend on its size of the letter.

Channel banner

When you change from one channel to another, the Channel banner will be displayed for the selected service. In the channel banner menu, information such as current date & time, channel name, etc. will be displayed.

1 While watching the service, press *i* to display the Channel banner at any time. It will disappear after the Banner timeout value (this can be adjusted to your preferred value, see page 21).

DVB Teletext available
DVB Subtitle available
Service name
Lock status
Pay TV
Service No.
Audio mode

001 BBC ONE   Stereo

Duration graph
251_ABC_Monosco_0...   17:17:37
17:08   17:38   20/08/2009
Undefined   Age:10
Time and date

Genre
Starting time/Ending time of current programme
Programme name
Parental rating
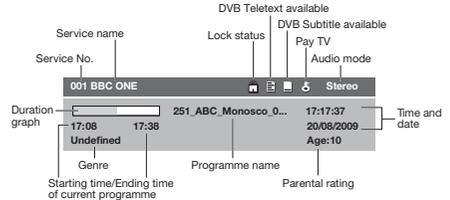
2 Press *i* again to display the Basic Service Information. You can verify the signal strength and quality of the selected service here.

Basic Service Information   DVB-T 64QAM
Service Name   671 MNO
Signal Quality   65%
Signal Strength   63%
671 MNO 10Step 0820 0005 0030 Audio2 AB...
671 MNO 10Step 0820 0005 0030 Audio2 AB CDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmn opqrstuvwxyz

If necessary, adjust the direction of the antenna to obtain the maximum signal strength.

• When the Country setting has been set to FINLAND, press *i* once more to display the advanced detailed information.

3 To remove the Channel banner immediately, press *i* again.

Note:
• Subtitles are displayed on the channel banner. Some broadcasts may not provide this service.

Multi audio

You can select your preferred Audio mode and DVB (digital TV) subtitle Language.
The Multi audio menu will display the Audio mode and Language options available with the current broadcast.

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

Multi audio	
Audio mode	◄ Stereo ►

No.	Language Code
001	ENG
002	ENG (Dolby Digital)

2 To select Audio mode, press ◄ or ►. In general the below audio modes will be supported in a service.
Stereo, Left, Right and L + R. Then press **ENTER**.

To select a Language code, press ▲ or ▼ to select code within Language code list.

Multi audio	
Audio mode	◄ L+R ►

No.	Language Code
001	ENG
002	ENG (Dolby Digital)

3 Press **EXIT**. Your selected audio preferences will be saved.

Note:
• Dolby Digital audio can be selected for some language options. There is no sound output from the main unit's speakers when Dolby Digital audio is selected. You can only hear Dolby Digital audio through the amplifier equipped with a Dolby Digital decoder.
• Dolby is a trademark of Dolby Laboratories.

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 **DIGITAL MENU**. Press ◄/► or ▲/▼ to select "Subtitle", then press **ENTER**.

2 Press ◄ or ► to select your desired subtitle language from the available languages.

Subtitle	
Language	◄ English ►

3 To turn off the DVB-Subtitle, press ◄ or ► repeatedly until 'Off' appears in the Subtitle menu.
Press **EXIT**. Your selected subtitle language will be saved.

Note:
• DVB-Subtitle can also be changed by pressing of ⊡ repeatedly.

EPG (Electronic Program Guide)

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 (EPG)** to display the Guide menu.

Service list →   ← Events list

Highlighted programme

Service list :
Lists all the services that are currently available.
As you scroll through the service list by pressing ▲ or ▼ , 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 page by page, press **Red** or **Green** Key.

Events list :
List the 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 ◄ or ► 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 **Yellow** or **Blue** key (the date of the programme information you are currently viewing is shown in the top right hand corner).

The full Event name along with the duration of the event will be displayed in the bar above.

2 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 ▲ or ▼ .

To return to the Guide menu, press *i*.
To clear the menu screen, press **EXIT**.

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EPG Timer

You can choose whether or not the screen switches on when the timer event begins - please see page 17 (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 (EPG)** to display the Guide menu. Then press ▲/▼/◄/► to highlight the programme you want to set as a timer event, then press **ENTER**.
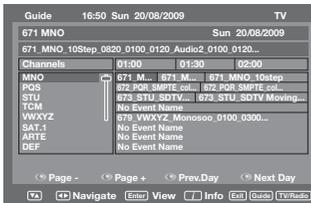
Note:
- If you select an event which has already started, the selected program will be displayed on the screen, as you cannot set the timer for a programme which has already started.
- To display the stored timer events, press **GUIDE (EPG)** twice. The EPG Timer menu (see step 3 below) will appear. 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).

2 The confirmation banner will be displayed. Press ◄ or ► to select 'Yes' or 'No', then press **ENTER** (the selected option is shown in blue).

3 The EPG Timer menu will appear. Press the **Red** key to set the Timer mode for a selected event.
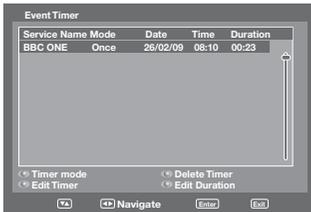
4 The Timer mode specifies the frequency of Timer wake-up which can be set as Once, Daily or Weekly. Press **ENTER** to save the selected Timer mode.
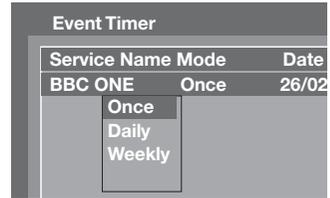
Note:
To delete a timer event, select the specified event, then press the **Green** key.

5 To return to the Guide menu, press **DIGITAL MENU**. To clear the menu screen, press **EXIT**.

Note:
- When the EPG Timer starts, the message "Event Timer Started" will appear.
- A maximum of eight Timers can be programmed.
- 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** key to change the start time of the event.
- Press the **Blue** key to change the time duration of the event.
- If the EPG Timer begins during standby mode, the ⏻ (On/timer/Standby) indicator on the unit will be lit in orange. This is to indicate that an EPG Timer event has begun in standby mode.
- When in power-off-condition, EPG Timer cannot be activated.

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 ▤.

Disc

DVD discs must be Region 2 or Region ALL type to play on this unit.
The loaded Disc (DVD and Audio-CD) will be recognized automatically.
The suitable disc formats are: DVD-Video, DVD-R/-RW (Video format only), Audio CD, CD-R/CD-RW, Video CD and SVCD.
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 or Photo CD 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
An 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 center 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** repeatedly until "Off" appears.
3. Press **PLAY MODE** again to clear the screen.

To turn on the PBC
Follow the above step 1~2, then press **ENTER** repeatedly until "PBC" appear.

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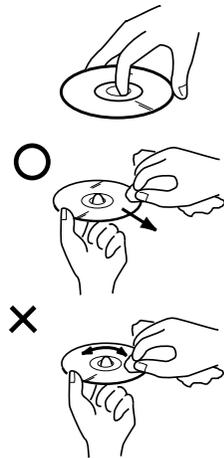
Playing a disc

This section shows you the basics on how to play a disc.

Basic playback (DVD/VCD/Audio CD)
Preparation
Make sure that the ⏻ **(POWER)** switch on the unit is pushed in (ON). (The ⏻ (On/Timer/Standby) indicator lights up.)

1 Press **TV/DVD** on the remote control to select the DVD mode.

2 Place the disc in the disc slot with the label side facing forward. (If the disc has a label.)
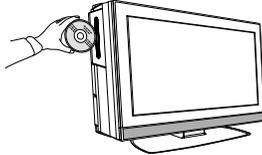
   • Do not place a disc which is unplayable in this unit.

3 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**.
    Title is selected and play commences.
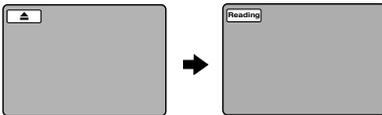
4 Press ■ to end playback.
   • The unit records the stopped point, depending on the disc. "▶" appears on the screen. Press **PLAY (▶)** to resume playback (from the scene point).
   • If you press ■ again (" ■ " appears on the screen.), the unit will clear the stopped point.

To start playback in the stop mode
Press **PLAY (▶)**.

Note:
• **If the unit does not operate property:**
  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 be begun automatically.

To pause playback (still mode)
Press ❙❙ during playback.
To resume normal playback, press **PLAY (▶)**.

• The sound is muted during still mode.

To stop playback
Press ■.

To remove the disc
Press ⏏.

Remove the disc after the disc comes out.

Note:
• If a non-compatible disc is loaded, "Incorrect Disc", "Region Code Error" or "Parental Error" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (see pages 25 and 36).
• Some discs may take a minute or so to start playback.
• When you set a single-faced disc label backwards (i.e. the wrong way), "Reading" will appear on the display for a few minutes and then "Incorrect Disc" will continue to be displayed.
• Some discs may not work the resuming facility.
• Resuming cannot function when you play a PBC-featured Video CD while the PBC is on. To turn off the PBC, see page 25.
• 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 **POWER (⏻)** 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 in fast reverse or fast forward directions (DVD/VCD/Audio CD)
Press ◄◄ or ►► during playback.
◄◄: Fast reverse playback
►►: Fast forward playback
Each time you press ◄◄ or ►►, the playback speed changes.

To stop playback
Press ■.

Note:
• The unit mutes sound during reverse and forward scan of DVD/VCD discs.
• The playback speed may differ depending on the disc.

Playing frame by frame (DVD/VCD)
Press ❙❙ during still playback.
Each time you press ❙❙, the picture advances one frame.

To resume normal playback
Press **PLAY (▶)**.

Note:
• The sound is muted during frame by frame playback.

Playing in slow-motion (DVD/VCD)
Press ◄❘ or ❘► during playback.
Each time you press ◄❘ or ❘►, the slow-motion speed changes.

To resume normal playback
Press **PLAY (►)**.

Note:
• The sound is muted during slow-motion playback.
• Reverse slow (◄❘) does not work on VCD.

Locating a chapter or track (DVD/VCD/Audio CD)
Press ❘◄◄ or ►►❘ repeatedly to display the chapter or track number you want.
Press ►►❘ to playback starts from the selected chapter or track.

Press ❘◄◄ to locate succeeding chapters or tracks.

Playback starts from the beginning of the current chapter or track.

Note:
• A prohibition symbol "✕" may appear at the upper right of the screen. This symbol means either the feature you tried is not available on the disc, or the unit cannot access the feature at this time. This does not indicate a problem with the unit.

Zooming (DVD/VCD)

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

1 Press **ZOOM** during playback.

    Q 1

The centre part of the image will be zoomed in.
Each press of **ZOOM** will change the ZOOM
Q1(x 1.3), Q2 (x 1.5) and Q3 (x 2.0).

2 Press ▲/▼/◄/► to view a different part of the frame.
You may move the frame from the centre position to UP, DOWN, LEFT or RIGHT direction.

3 In the zoom mode, press **ZOOM** repeatedly to return to a 1:1 view (Q Off).

Note:
• You can select the Pause or Slow in the zoom mode.
• Some discs may not respond to zoom feature.

Locating 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.

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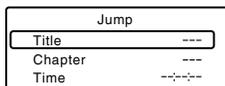
2 Press ▲ or ▼ to select the "Title/Track", "Chapter" or "Time".

3 Press **Number buttons (0–9)** to input the number.

  • If you input a wrong number, press **CANCEL**.
  • Refer to the package supplied with the disc to check the numbers.

4 Press **ENTER**. Playback starts.

  • When you change the title, playback starts from Chapter 1 of the selected title.
  • Some discs may not work in the above operation.

  Note:
  • 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 26).

Marking desired scenes

Marking the scenes (DVD/VCD/Audio CD)
The unit stores the points that you want to watch again up to 3 points. You can resume playback from each scene.

1 Press **MARKER** during playback.

Marker 1	-- : -- : --
Marker 2	-- : -- : --
Marker 3	-- : -- : --
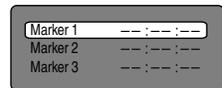
2 Select the blank Marker using ▲ or ▼ .
Then press **ENTER** at the desired scene.

  • Repeat this procedure to set the other 2 scenes.

3 Press **MARKER** to clear this display.

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

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

Marker 1	00 : 27 : 54
Marker 2	01 : 16 : 25
Marker 3	02 : 08 : 31
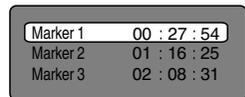
2 Press ▲ or ▼ to select the Marker 1-3.

3 Press **ENTER**.

  Playback starts from the marked scene.

  To cancel the Marker
  Follow the above steps 1~2, then press **CANCEL**.

Note:
• Some discs may not work with the marking operation.
• The marking is cancelled when you eject the disc or turn the power off.
• Some subtitles recorded around the marker may fail to appear.
• In case of Video CD with PBC, Marker function is prohibited.
• Marker function does not work with MP3/JPEG CD.

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Repeat playback (DVD/VCD)

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

2 Press **ENTER** repeatedly to select "Chapter" or "Title".

Play Mode	
Repeat	: Off
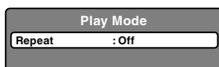
The unit automatically starts repeat playback after finishing the current title or chapter.

[Video CD]
Press ▼ to select "Repeat".
Press **ENTER** to select "Track" or "All".
- If you set the repeat mode during stop mode, press **PLAY (▶)** to start Repeat playback.

3 Press **PLAY MODE** again to clear the screen.

To resume normal playback
Select Repeat : "Off" in step 2.

Note:
- Some discs may not work with the repeat operation.
- In case of Video CD with PBC, Repeat functions are prohibited during playback.
- Chapter/Track repeat function is cancelled whenever **SKIP (I◀◀)** or **SKIP (▶▶I)** is pressed.

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

A-B repeat playback allows you to repeat selection between two selected points.

1 Press **REPEAT A-B** during playback. The start point is selected.

	⌂ A-

2 Press **REPEAT A-B** again.

	⌂ A-B
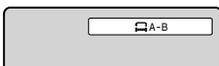
The end point is selected. Playback starts at the point that you selected. Playback stops at the end point and returns to Point A automatically, then starts again.

To resume normal playback
Press **REPEAT A-B** again.
"⌂ Off" appears on the screen.

Note:
- 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 for the scenes that include multiple angles.
- A-B Repeat playback does not work when Repeat playback is activated.
- You may not be able to set A-B Repeat during certain scenes of the DVD.

Changing angles (DVD)

When playing back a disc recorded with multi-angle facility, you can change the angle that you are viewing the scene from.

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

📷 1/2

2 Press **ANGLE** repeatedly until the desired angle is selected.

Note:
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

Title selection (DVD)

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

1 Press **TOP MENU** during playback. Title menu appears on the screen.

2 Press ▲/▼/◀/▶ to select the desired title.

3 Press **ENTER** or **PLAY (▶)**. The playback of the selected title will start.

Note:
- Some DVDs allow you to select the disc contents using the menu.
  When you playback these DVDs, you can select the subtitle language and soundtrack language, etc. using the menu.

DVD menu (DVD)

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

1 Press **DVD MENU** during playback. The DVD menu appears on the screen.
- Press **DVD MENU** again to resume playback at the scene when you pressed **DVD MENU**.

2 Press ▲/▼/◀/▶ to select the desired item.

3 Press **ENTER**. The menu continues to another screen. Repeat steps 2 and 3 to set the item completely.

Note:
- Depending on the DVD, you may not be able to resume playback from the scene point when you press **DVD MENU**.

Changing Soundtrack Language (DVD/VCD)

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

1 Press **AUDIO** during playback.
The current soundtrack language will appear.

> 1/2 Eng Dolby Digital
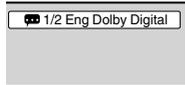
2 Press **AUDIO** repeatedly until the desired language is selected.

> 2/2 Fre Dolby Digital
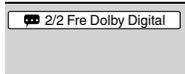
• The on screen display will disappear after a few seconds.

In case of Video CD playback
Audio type changes as follows each time you press **AUDIO**.

> ►LR ➡ ►L ➡ ►R

Subtitles (DVD)

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

1 Press ⊡ repeatedly during playback until the desired language is selected.

> 1/5 Eng
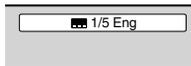
2 To turn off the subtitle, press ⊡ until "Off" appears.

> Off
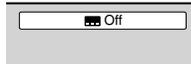
• The on screen display will disappear after a few seconds.

Disc status

With press of *i*, the status of the disc will appear on the screen. To cancel the display, press *i* again.

[Video CD]

DISC OPERATION   ELAPSED TIME   TOTAL TIME

> ►
> VCD   00:08:32 00:51:03
> Track 3/15

TRACK NO.

[DVD]

DISC OPERATION   ELAPSED TIME   TOTAL TIME

TITLE NO.

> ►
> DVD   00:15:25 01:41:39
> Title 1/3   Chapter 2/24
> 1/1 Eng Dolby Digital   1/2 Eng
> 1/1

CHAPTER NO.

ANGLE NO.

SUBTITLE LANGUAGE

AUDIO LANGUAGE   A KIND OF AUDIO
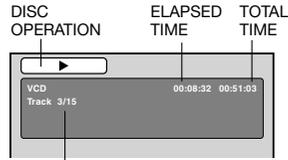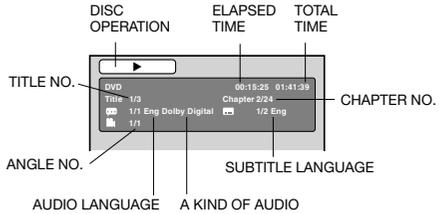
Note:
• If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
• The selected soundtrack language is cancelled when you eject the disc. The initial default language or available language will be heard if the disc is played back again.
• 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.

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MP3/WMA/JPEG and Audio CD operation

This unit can playback the MP3/WMA/JPEG-data which has been recorded on CD-R/RW. Audio CD also can be played back. To produce the MP3/WMA JPEG-data, you need a Windows-PC with CD-RW drive and a MP3/WMA/JPEG-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/WMA 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/WMA/JPEG - data information
Limitations on MP3/WMA/JPEG playback
- MP3/WMA/JPEG CD are standardized by ISO9660, its file name must include following extensions; ".mp3", ".wma", ".jpg".
- MP3/WMA/JPEG CD must be corresponded 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/WMA/JPEG 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/WMA/JPEG 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.

Limitations on displaying of the file name.
- The maximum number for display is 15 characters. Long file names will be condensed.
- Available characters for display are the following:
  capital or small alphabets of A through Z, numbers of 0 through 9, and _ (under score).
- Other characters than those above are replaced in hyphen.

To playback MP3/WMA/JPEG CD in the recorded order.
1. Use MP3/WMA/JPEG 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/WMA/JPEG CDs cannot be played back depending on the recording conditions.
- The CD-R/RW that has no music data or non MP3/WMA/JPEG files cannot be played back.

Standard sampling frequency and the bit rate:
MP3
  MPEG-1 Audio
  32kHz, 44.1kHz, 48kHz
  32kbps ~ 320kbps (constant bit rate or variable bit rate)
  The recommend recording setting for a high-quality sound is 44.1kHz of sampling frequency and 128kbps of constant bit rate.
WMA
  WMA version 7 and 8
  32kHz/48kbps, 44.1kHz/48kbps~192kbps, 48kHz/128kbps~192kbps
  The file recorded by mono, 48kHz, 48 kbps is not available to this unit.

Loading CD

1 Load a MP3/WMA/JPEG CD or an Audio CD into the disc slot.

2 A file browser screen will appear on the screen.
- In case the current directory includes 9 files or more, press ▲ or ▼ to scroll in the file list.
- To see contents in folder, select the folder and then press **ENTER**. To return to the parent directory, select " 🖿 Go Up ..." then press **ENTER**.
- In case of a CD containing a mixture of MP3, WMA and files, the files are played back by selecting them from the file browser.

Operation status File number Elapsed time Selected file name

1/15 00:00:00
♪ /MP3-5.MP3

File list

♪ MP3-5
♪ MP3-6
♪ WMA-11
♪ WMA-12
🖼 Picture-1
🖼 Picture-2
🖼 Picture-3
🖼 Picture-4

Select Files
Repeat   Off
Mode   Off

Music Playing

Cursor   Preview window

Tool kit window

File type
♪ : Indicates Music file (Audio CD/MP3/WMA)
🖼 : Indicates Picture file (JPEG)
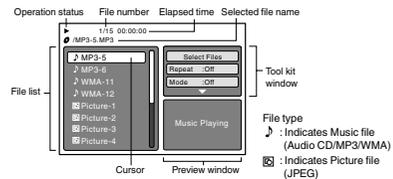
MP3/WMA and Audio CD playback

1 In the file browser, press ▲/▼ to select the desired file.

When **PLAY (▶)** is pressed after displaying file browser displayed, playback begins automatically starting from the first file. In this case, if the first file is an MP3/WMA file, only MP3/WMA files are played back in order.

If the first file is a JPEG file, the first JPEG file is played back. If there is no file at a root directory, playback does not begin automatically.
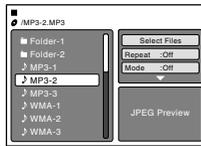
2 Press **ENTER**.
The selected file starts playing back.

3 Press ■ to end playback.
The selected file starts playing back.
- The unit records the stopped point. " ▶ " appears on the screen. Press **PLAY (▶)** to resume playback (from the scene point).
- If you press ■ again or unload the disc, the unit will clear the stopped point.

Select Files
The file type to make it display in the file browser can be chosen.
1. Press ◄ or ► to select "Select Files" at right column in the file browser.
- Press **ENTER**, then press ▲ or ▼ to select file type from the list (Music or Picture).
1. Press **ENTER** to add/remove check mark. Checked file type will be displayed in the file browser.
2. Press **RETURN** to save the setting.

Note:
- During MP3/WMA/JPEG-Playback, you cannot use JUMP and A-B Repeat functions.
- You can use Repeat (Track or All), Random functions and Program playback for MP3/WMA/JPEG-Playback (See page 32)

JPEG playback

1 In the file browser, press ▲/▼ to select the desired JPEG file.
To display a thumbnail list, press **DVD MENU**.
Press ▲/▼/◄/► to select the desired file.
(To return to the file browser, press **TOP MENU**.)

When **PLAY (▶)** is pressed after displaying the file browser, playback begins automatically starting from the first file. In this case, if the first file is a JPEG file, the first JPEG file is played back.
If the first file is an MP3/WMA file, only MP3/WMA files are played back in order. If there is no file at a root directory, playback does not begin automatically.
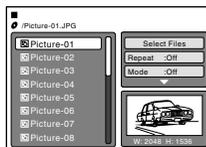
2 Press **ENTER**. The selected picture appears on the screen.

Rotating an image
You can rotate an image by 90 degrees.
Press **ANGLE** during playback of the image. " ", " ", " " or " " appears on the screen.

Zooming an image
Zoom function also can be used in viewing JPEG files. Press **ZOOM** (See "Zooming" on page 27).

3 Press ■ to end playback.
The file browser appears on the screen. If you want to watch the other file, repeat steps 1 ~ 2.

Slide show playback

The slide show enables you to view pictures (files) one after another automatically.

Preparation
Set "JPEG Interval" setting to "Off", "5 Seconds", "10 Seconds" or "15 Seconds" (See page 35).

1 Select your desired starting file for the slide show in step 1 above.

2 Press **ENTER** or **PLAY (▶)** to start slide show from the selected file.
- If you press ❚❚ during the slide show, the slide show stops temporary. "❚❚" appears briefly on the screen.
- If the picture appears upside down or sideways, press **ANGLE** repeatedly until it's right side up. " ", " ",
  " " or " " appears on the screen.
- Press **PLAY (▶)** or **SKIP (▶▶❘)** again to resume the slide show.
- When the slide show playback finished, the file list appears.
- To stop the slide show, press ■. The file list appears.

Note:
- During JPEG playback, you cannot use Jump and A-B Repeat functions.
- When an image exceeds 5760 x 3840 pixels, the entire image (preview window or thumbnail list) may not be displayed on a screen.
- It may have a longer interval due to the size of data.

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Repeat playback (Audio CD/MP3/WMA/JPEG)

1 In the file browser, press ▲/▼/◄/► to select "Repeat" during stop mode.

Folder-1	Select Files
Folder-2	Repeat :Off
MP3-1	Mode :Off

2 Press **ENTER** repeatedly to select "Track" or "All".

3 Press **PLAY (►)**.
The unit automatically starts repeat playback after finishing the current track.

To resume normal playback
Select Repeat : "Off" in step 2.

Note:
- The repeat or random function is cancelled when you eject the disc or turn the power off.
- The track repeat function is cancelled when I◄◄ or ►►I is pressed.
- In case of Audio CD, the function of A-B Repeat also can be used. See "A-B Repeat playback" (See page 28).

Random playback (Audio CD/MP3/WMA/JPEG)

1 In the file browser, press ▲/▼/◄/► to select "Mode" during stop mode.

2 Press **ENTER** to select "Random".

3 Press **PLAY (►)**.
The Random playback will start.

To resume normal playback
Select Mode : "Off" in step 2.

Program playback (Audio CD/MP3/WMA/JPEG)

1 In the file browser, press ▲/▼/◄/► to select "Edit Mode", then press **ENTER**.

Folder-1	Repeat :Off
Folder-2	Mode :Off
MP3-1	Edit Mode

When "Edit Mode" is black color, you can mark the files which you want to add into Program list.

2 Press ▲/▼/◄/► to select the file you want to add into the program list.

Press **ENTER**. Selected file was marked. Repeat this procedure to select the other files.

3 Press ▲/▼/◄/► to select "Add To Program". Then press **ENTER**. All marked files are added into the program list.

When you finish storing the files you want into the Program list, select "Edit Mode" again and press **ENTER** to release edit mode.

4 Press ▲/▼ to select "Program View", then press **ENTER**. Program View shows only the programed files that you have added in Step 2 and 3.

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Browser View   Program View

Folder-1	Edit Mode	Folder-1	Edit Mode
Folder-2	Program View	MP3-1	Browser View
MP3-1	Add To Program	MP3-2	Clear Program
MP3-2		WMA-1	

5 In the Program View, press **PLAY (►)**. The files start to playback in programmed order that were added by you.

To remove file from program list in stop mode
In the Edit Mode, switch to Program View. Select the files you want to remove, then press **ENTER**. Select "Clear Program" and press **ENTER**. Marked file is removed from program list.

Note:
- The program function is canceled when you eject the disc or turn the power off.

Program 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 feature works for Video CD.
For Audio CD and MP3/WMA/JPEG CD, please see "Random playback (Audio CD/MP3/WMA/JPEG)" and "Program playback (Audio CD/MP3/WMA/JPEG)".

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

Play Mode			
Mode : Off		1	---
Repeat : Off		2	---
Program Playback		3	---

2 Press ▲/▼ to select "Mode", then press **ENTER** to select "Program".

Play Mode			
Mode : Program		1	---
Repeat : Off		2	---
Program Playback		3	---

3 Press ◄/► to select the programming position. Use **Number buttons (0–9)** to input the track numbers on sequentially.

Play Mode			
Mode : Program		1	9
Repeat : Off		2	---
Program Playback		3	---
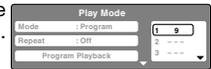
- If you input a wrong number, press **CANCEL**.

4 Press ◄/► to return to the left column, then press ▲/▼ to select the "Program Playback" and press **ENTER**.

The programs you selected will start to playback in order.
- To resume normal playback, select Mode "Off" in step 2.

To change the program
1. Select Mode to "Program" (as step 2), press ▲/▼/◄/► to select the track number you want to change, then press **CANCEL**.
2. Press **Number buttons (0–9)** to overwrite the new track number.

To clear the program one by one
Select Mode to "Program", press ▲/▼/◄/► to select the track number. Then press **CANCEL**.

To clear all the programs
In the above column, press ▲/▼ to select "Clear Program". Then press **ENTER**.

Random playback (VCD)

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

2 Press ▲/▼ to select "Mode", then press **ENTER** to select "Random".

3 Press **PLAY (▶)**.
The Random Playback will start.
- If you set "Random" during playback mode, Random playback will begin after the track that is currently being played has ended.
- To resume normal playback, select Mode "Off" in step 2.

Note:
- 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 Press **SETUP** in stop mode.

The following on-screen display appears.

Menu	: English
Subtitle	: English
Audio	: English
OSD	: English
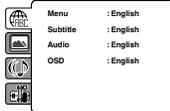
2 Press ▲ or ▼ to select the desired section, then press ▶ or **ENTER**.

TV Screen	: 16:9
Display	: On
Picture Mode	: Auto
JPEG Interval	: Off
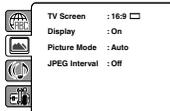
3 First option will be highlighted.
Press ▲ or ▼ to select the desired option.

TV Screen	: 16:9
Display	: On
Picture Mode	: Auto
JPEG Interval	: Off
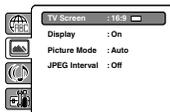
4 Then press ▶ or **ENTER**. The selectable settings will appear.

TV Screen	4:3
Display	4:3
Picture Mode	✓ 16:9
JPEG Interval	: Off
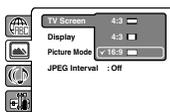
5 Change the selection using ▲ or ▼, by referring to the corresponding pages 34 ~ 36.
Press **ENTER** to save the setting.
- Repeat steps 3 - 5 to change other option.
- To select another section, go back to step 2 by pressing ◄ or **RETURN** repeatedly.

6 To clear SETUP screen, press **SETUP** or press **RETURN** repeatedly.

Setting details

Section	Option	Details	Page
	Menu Subtitle Audio	To select the language of "Menu", "Subtitle" and "Audio" if more than one languages are available on the disc.	34
	OSD	To select a preferred language for on screen display.	
	TV Screen	To select a picture size according to the aspect ratio of your TV.	
	Display	To turn On or Off the operational status display on the screen.	
	Picture Mode	To select a preferred picture mode from "Video", "Film" or "Auto".	35
	JPEG Interval	To select a preferred setting for the slide show playback.	
	Night Mode	To select On or Off for Night Mode.	
	Digital Out	To select a digital output sound format corresponding to your system connection.	
	Parental	To select a preferred parental level for the parental setting.	36
	Password	To change the password.	

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Menu	: English
Subtitle	: English
Audio	: English
OSD	: English

Menu, Subtitle, Audio
You can select the language of "Menu", "Subtitle" and "Audio" if more than one language is recorded onto the disc.

English, Deutsch, Русский, Italiano, Espanol:
The selected language will be heard or seen.

Other:
Other languages can be selected (see "Language code list" on page 38).

Off (Subtitle):
Subtitles do not appear.

Original (Audio):
The unit will select the first priority language of each disc.

Note:
• If the selected language is not recorded on the disc, the first- priority language is selected.

OSD
The setup language can be selected.

English: To display OSD language is English
Deutsch: To display OSD language is German
Русский: To display OSD language is Russian
Italiano: To display OSD language is Italian
Espanol: To display OSD language is Spanish

TV Screen	: 16:9
Display	: On
Picture Mode	: Auto
JPEG Interval	: Off
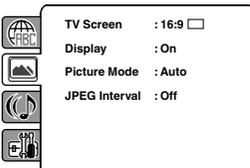
TV Screen
You have the following screen sizes to choose from:

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 displays 4:3 style.

Display
On screen display can be switched on or off when you press any buttons.

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

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Picture Mode

There are two types of source content in pictures recorded in DVD video discs: film content (pictures recorded from films at 24 frames per second) and video content (video signals recorded at 30 frames per second). Make this selection according to the type of content being viewed.

Auto: Select this selection normally.
The DVD player automatically detects 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".

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.
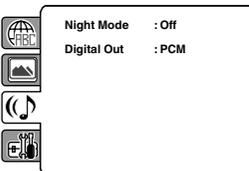
Night Mode

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.

Night Mode   : Off
Digital Out   : PCM

Note:
• 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 output.

Note:
• Even if you select "Bitstream", MPEG Audio will be output in PCM format.

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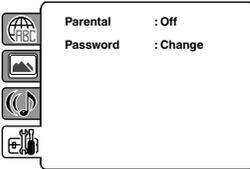
Parental

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

1) Press ▲ or ▼ to select "Parental", then press **ENTER**. "Enter Password" screen will appear.

2) Press "0000" using **Number buttons (0–9)**. (Please note, this is pre-setting password of this unit). Then press **ENTER**. The parental level list will appear.

Parental	: Off
Password	: Change

Level 1: DVD software for adults cannot be played back.
Level 8: Virtually all DVD software can be played back.
Level Off: The parental control setting does not function.

3) Press ▲ or ▼ to select from the level 1 to level 8. The limitation will be more severe as the level number is lower. Then press **ENTER**.

4) Press ⏏ to activate Parental control setting.

Note:
• If each setup (pages 34 ~ 36) 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 **CANCEL**.

Password

1) Press ▲ or ▼ to select "Password", then press **ENTER**. "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").

3) Then press **ENTER**. "Enter New Password" screen will appear. Press **Number buttons (0–9)** to input the new password.

4) Press **ENTER**. Now your new password has been set. Be sure to remember this number!

If you forget the password.

1) Press ⏏ to remove the disc.

2) While holding **7** down on the remote control and at the same time press **STOP** (DVD) on the unit. "Password Clear" appears on the screen. Now the password has been returned to the initial value ("0000").

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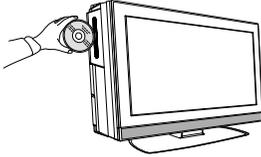
2 If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the "Reading" screen will change, depending on which disc is played. If you select "YES" with the **ENTER** key, password input screen will then appear.

3 Enter the password with **Number buttons (0–9)**. Then press **ENTER**.

> **Enter Password**
>
> ☐ ☐ ☐ ☐

To exit from the entry, press **RETURN**.

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.

Language Code List

Enter the appropriate code number for the initial settings "Menu", "Subtitle" and/or "Audio" (see page 34).

Language Name	Code	Language Name	Code	Language Name	Code	Language Name	Code
Abkhazian	1112	Fiji	1620	Lingala	2224	Singhalese	2919
Afar	1111	Finnish	1619	Lithuanian	2230	Slovak	2921
Afrikaans	1116	French	1628	Macedonian	2321	Slovenian	2922
Albanian	2927	Frisian	1635	Malagasy	2317	Somali	2925
Amharic	1123	Galician	1722	Malay	2329	Spanish	1529
Arabic	1128	Georgian	2111	Malayalam	2322	Sundanese	2931
Armenian	1835	German	1415	Maltese	2330	Swahili	2933
Assamese	1129	Greek	1522	Maori	2319	Swedish	2932
Aymara	1135	Greenlandic	2122	Marathi	2328	Tagalog	3022
Azerbaijani	1136	Guarani	1724	Moldavian	2325	Tajik	3017
Bashkir	1211	Gujarati	1731	Mongolian	2324	Tamil	3011
Basque	1531	Hausa	1811	Nauru	2411	Tatar	3030
Bengali; Bangla	1224	Hebrew	1933	Nepali	2415	Telugu	3015
Bhutani	1436	Hindi	1819	Norwegian	2425	Thai	3018
Bihari	1218	Hungarian	1831	Oriya	2528	Tibetan	1225
Breton	1228	Icelandic	1929	Panjabi	2611	Tigrinya	3019
Bulgarian	1217	Indonesian	1924	Pashto, Pushto	2629	Tonga	3025
Burmese	2335	Interlingua	1911	Persian	1611	Turkish	3028
Byelorussian	1215	Irish	1711	Polish	2622	Turkmen	3021
Cambodian	2123	Italian	1930	Portuguese	2630	Twi	3033
Catalan	1311	Japanese	2011	Quechua	2731	Ukrainian	3121
Chinese	3618	Javanese	2033	Rhaeto-Romance	2823	Urdu	3128
Corsican	1325	Kannada	2124	Romanian	2825	Uzbek	3136
Croatian	1828	Kashmiri	2129	Russian	2831	Vietnamese	3219
Czech	1329	Kazakh	2121	Samoan	2923	Volapük	3225
Danish	1411	Kirghiz	2135	Sanskrit	2911	Welsh	1335
Dutch	2422	Korean	2125	Scots Gaelic	1714	Wolof	3325
English	1524	Kurdish	2131	Serbian	2928	Xhosa	3418
Esperanto	1525	Laothian	2225	Serbo-Croatian	2918	Yiddish	2019
Estonian	1530	Latin	2211	Shona	2924	Yoruba	3525
Faroese	1625	Latvian, Lettish	2232	Sindhi	2914	Zulu	3631

PC connection

Follow these steps: On your PC monitor choose a resolution of 1280 x 768 at 60Hz and save this configuration. Shut down your PC and connect the shut off LCD TV.
Use a screensaver to avoid burning-in of static picture content.

Select PC input
Switch on the LCD-TV.
Select the PC input mode (see page 11).

Note:
- If no signal or a signal with a non-supported resolution is connected, NO SIGNAL is displayed
- As this LCD-TV is not a PC monitor correct display cannot be guaranteed for every PC / graphics card.
- Digital PC connection to HDMI-input is not supported.
- If by any chance the PC should create a picture on the HDMI-input then there can be no guarantees for its correct representation. Digital PC connection is not an assured function of this TV appliance.
- Select WXGA 'ON' in the menu according to the following table:

Supported PC resolutions		
WXGA	resolution	fps (Hz)
OFF	640x480	60
OFF	800x600	60
OFF	1024x768	60
ON	1280x720	60
ON	1280x768	60
ON	1360x768	60

Use a PC-VGA cable (not supplied) to connect the LCD-Monitor to your PC. Make the connections carefully so as not to break or bend the contacts inside the plug.

TV
(Back side view)

to PC/HDMI AUDIO input

Audio cable
(not supplied)
VGA cable
(not supplied)

PC
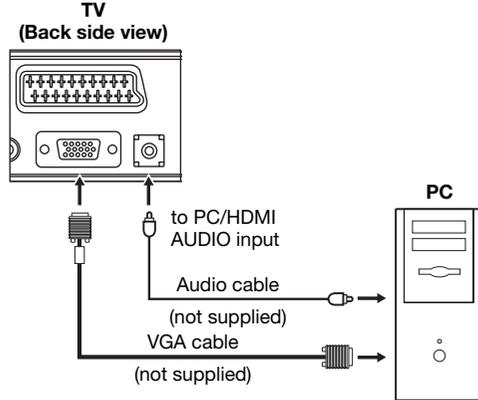
Example: Adjust the contrast.

1 During PC mode press **ANALOG MENU**.
The Menu will appear on the screen.

BRIGHTNESS	25
CONTRAST	40
HOR POSITION	0
VER POSITION	0
PHASE	25
CLOCK	0
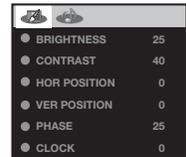
2 Select CONTRAST, then press **ENTER**. Press ◄ or ► to adjust CONTRAST.

3 Press **EXIT** to return to the normal screen.

Description about the each setting option:

PICTURE Menu
BRIGHTNESS and CONTRAST: You can adjust these according to your personal preferences.
HOR POSITION and VER POSITION: to adjust the horizontal and vertical placing of the image.
PHASE and CLOCK: eliminates the horizontal (PHASE) and vertical (CLOCK) interfering lines (Picture width).
RED/GREEN/BLUE: influences the colour balance.
BACKLIGHT: Press ◄ or ► to adjust the level you require.
WXGA INPUT: When you input an WXGA signal, set this option to "ON".
RESET: Press **ENTER** to reset BRIGHTNESS, CONTRAST, RED, GREEN, BLUE and BACKLIGHT to the factory preset values.

AUDIO Menu
BASS/TREBLE/BALANCE: Tone setting menu.
RESET: Press **ENTER** to reset BASS, TREBLE and BALANCE to the factory preset values.

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Connecting an HDMI or a DVI device to the HDMI input

The HDMI input receives digital audio and uncompressed video from a HDMI equipped device or uncompressed digital video from a DVI equipped device.
When you connect 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.
Select the HDMI input mode (see P.11).

**TV
(Back side view)**

To PC/
HDMI
AUDIO
input

HDMI cable (type A connector)
(not supplied)
To HDMI output

HDMI device

or

HDMI - to - DVI adapter cable
(HDMI type A connector) (not supplied)
To DVI output

DVI device

Audio cable
(not supplied)
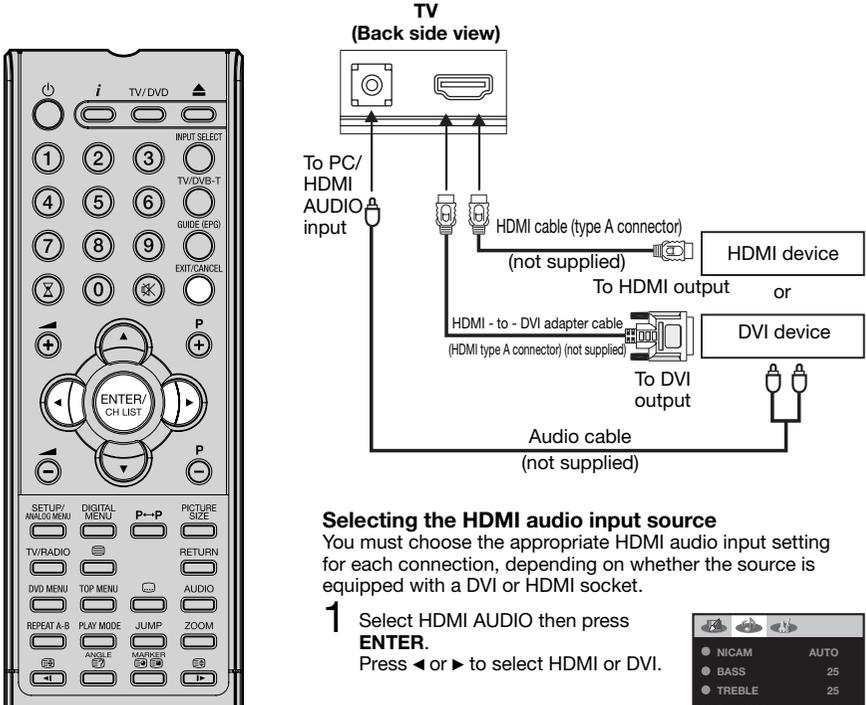
Selecting the HDMI audio input source

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 Select HDMI AUDIO then press **ENTER**.
Press ◄ or ► to select HDMI or DVI.

● NICAM	AUTO
● BASS	25
● TREBLE	25
● BALANCE	0
● HDMI AUDIO	HDMI
● RESET	
◄●►	**HDMI**

2 Press **EXIT** to return to the normal screen.

Note:
• 1080p is not supported and any device set to this resolution will produce a blank screen on the set.
• Follow the user's manual that came with the HDMI-system, which you try to connect to this TV.
If there is no picture available via HDMI-connection, do connect via SCART-cable first. Use the HDMI-system's remote-control to call the HDMI-system's setup-menu onto the screen.
Follow the HDMI-system's manual, to set its video-output to HDMI. When successfully set to HDMI, select this TV's HDMI-input, as described in here on page 11 (Select Video Input).

Note:
• This set is classed as "HD-Ready". This means that it is capable of displaying HD (High Definition) signals when connected to a suitable HD source, such as an HD receiver or DVD player that has HD capability, via HDMI, DVI, or Component Video connections.
• Some devices may not operate properly with the TV.

HDMI

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

Connection to other equipment

1. Connecting to other equipment

Attention: Preparation:
- Disconnect all equipment from the AC-supply, to prevent any possible damage.
- Make the necessary connections.
- Make sure all connections are safe & secure before reconnecting your equipment the AC-supply.

Pls connect your satellite-receiver or DVD player via SCART (unless equipped with HDMI or DVI). Make sure your SCART cable's cross-section is at least 1 cm or more. SCART cables with less thickness may cause visible noise.
Pls make the following settings inside your receiver's / DVD-player's setup-menu:
Video signal: RGB
TV-Format: 16:9
If you miss to make these settings properly, picture quality will be inferior and parts of the picture might be missing. This is not a fault of this TV-set.
In case you need help to make this adjustment with your satellite-receiver / DVD-player, pls consult the related instructions or contact the supplier or maker of those apparatus for support.
Pls use the satellite's remote-control handset to select Teletext or desired TV-station. Generally it is not possible to store satellite TV-stations into a standard TV.
If the TV does not automatically switch to AV-1, please select INPUT AV1 manually, as seen on page 11.

(All illustrated SCART cables and antenna cables are not supplied)
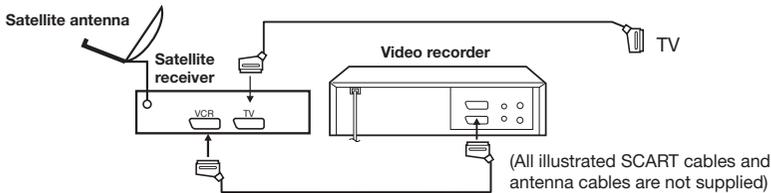
2. Connecting a DVD player



(SCART cable, not supplied)

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Connection to other equipment

3. Connecting an audio system

You can supply the TV sound to the stereo equipment with the scart socket. Use a special scart cable for the connection which sold at the accessory shop. (please consult your hi-fi instructions for details).

Note:
• The Bass/Treble/Balance adjustments (see P.17) only function with the sound from the TV speakers - it does not affect the audio output sockets.

Stereo amplifier

TV (Back side view)

Audio input

(Scart-RCA cable, not supplied)
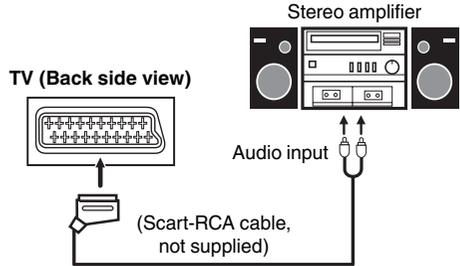
4. Connection of a digital amplifier or digital A/V receivers

Note:
• In earlier years Dolby Digital was known as AC-3. Nowadays only the name has changed. To enjoy Dolby Digital you may still use your "old" AC-3 decoder. Also the commercially available AC-3 DVDs can still be played with any Dolby Digital DVD player.

TV (Back side view)

Audio digital cable
(not supplied)

A/V receiver with (AC-3)
Dolby Digital decoder
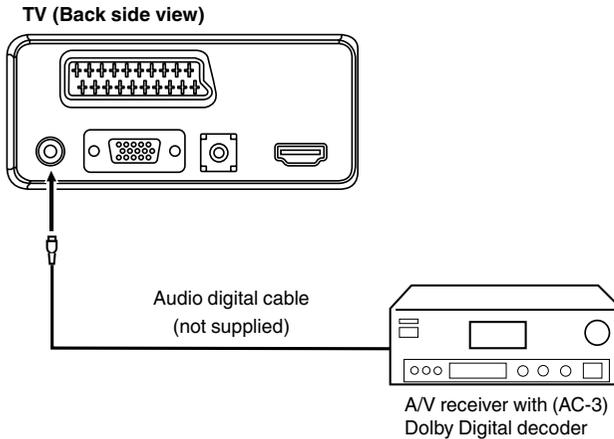
• After connecting a DD decoder please select in the DVD menu the Dolby Digital (DD) sound track option.
• Several DVDs may be pre-recorded on both sides however only one side contains the DD sound track. Please insert the correct DVD side.
• Digital audio output is active only when receiving DVB-T, not when receiving analog cable TV broadcasting.

Connection to other equipment

5. **Connecting Video camera and Video recorder**

   Select the "MONITOR" option in the AV1 OUTPUT menu (see page 17).

   Select the AV2 input mode (see P.11). You can see the playback picture from video camera.

   This signal is output via AV1 and can be recorded by video recorder.

   With this arrangement, Video recorder will record exactly what is shown on the screen.

   Note:
   • If you have a camcorder with S-video, use an S-video cable instead of a standard video cable. Do not connect both a standard video cable and an S-video cable at the same time, or the picture performance will be unacceptable.

Video camera to AV2
Playback

TV (Back side view) (S-VIDEO cable, not supplied)

(AV cable, not supplied)

AV output

TV (Back side view)

Video recorder to AV1
Recording

(SCART cable, not supplied)
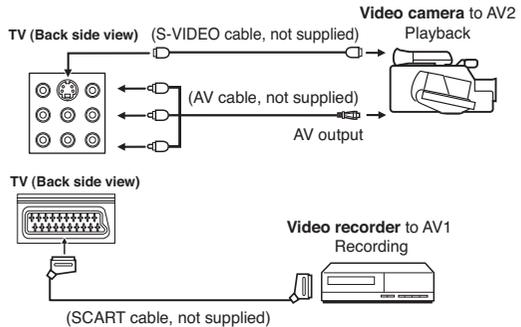
6. **Connecting to a DVD player or other AV device with Component Video outputs**

   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 P.11).

TV (Back side view)

To COMPONENT IN

Audio output   **DVD player**

Audio cable
(not supplied)

Component output
Y Pb Pr

Video cable (not supplied)
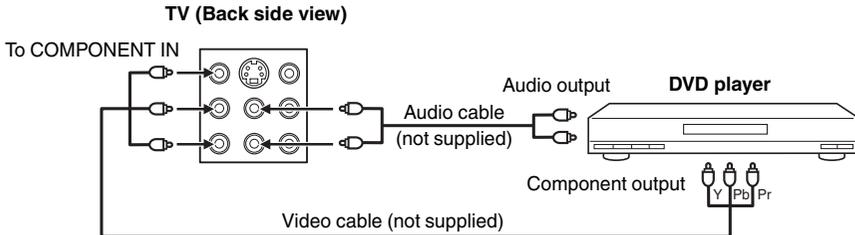
Note:
• The Component Video input of this unit are for use with equipment which outputs interlaced signals (PAL: 576i/1080i or NTSC: 480i/1080i) and progressive signals (PAL: 576p/720p or NTSC: 480p/720p).

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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.	7 11
No reception	Have you tuned in the TV stations? Press **1** on the remote control. Connect the antenna. Make sure the set is ON and not in Standby mode	 10 11
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.	13
In 🔧 menu, the TUNING option cannot be selected.	The unit is set to AV mode. Press **1** on the remote control.	12
Wrong Colours	Colour and Brightness errors can occur when the viewing angle / ambient air temperature (see technical specifications) are exceeded.	
While viewing a DVB (digital) channel, there is sound but no picture.	Some channel offers audio content only. It is normal.	
Blocky image or image stops intermittently.	Check all antenna connections. Move the antenna away from areas of possible interference. Try using an antenna booster.	10
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.	10, 18
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.	25
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.	26 25 26 25 36
✗ appears on the screen.	The function is prohibited with the unit or the disc.	27

- The LCD panel is a very high technology product, giving you fine picture details. Occasionally, a few nonactive pixels 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.

Specifications

TV	19LD5750U	22LD5750U
System:	Analogue: PAL UK, IR, CCIR, FRENCH System, B/G, D/K, I/I, L 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: IreE2~E4, X~Z+2, S1~S10, E5~E12, S11~S41, E21~E69 Digital: E5~E12, ItaD~H2, Fra1~6, Rus6~12, E21~E69	
LCD:	18.5" TYPE (47.0cm visible)	21.6" TYPE (54.8cm visible)
	TFT low-glass Active Matrix Colour LCD, 1366 x 768 Pixel	

HDMI input:	HDMI compliant (type A connector)
	HDCP compliant
	Supported scan rates: PAL: 576i/576p/720p/1080i
	                            NTSC: 480i/480p/720p/1080i
	HDMI Audio: 2-channel PCM, 32/44.1/48 kHz sampling frequency
	                       16/20/24 bits per sample	

Audio Output Power:	approx. 1.5W (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 : 0.5Vp-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	

GENERAL		
Power Source:	AC 220-240V, 50Hz	
Power Consumption:	Operation: approx. 38W at AC230V, 50Hz	Operation: approx. 52W at AC230V, 50Hz
	Standby: approx. 0.8W at AC230V, 50Hz	
Weight:	4.2 kg	5.1 kg
Dimensions:	47(W)x36(H)x17(D)cm	54(W)x40(H)x17(D)cm
Surrounding temperature:	Operation: 5°C ~ 40°C/Storage: –20°C ~ 60°C	
Operating Humidity:	Less than 80%RH	

ACCESSORIES		
2 batteries (AA/R6/UM-3)/Remote control unit/AC cord/Stand/2 screws for stand		

Weight and Dimensions are approximate. Because we continuously strive to improve our products we may change specifications and designs without prior notice.

Signal Input

RGB terminal (D-sub 15-pin connector)

Pin	Input signal
1	R
2	G or sync on green
3	B
4	No connection
5	GND
6	GND
7	GND
8	GND
9	No connection
10	GND
11	No connection
12	No connection
13	H. sync
14	V.sync.
15	No connection
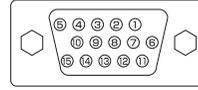
- When different kinds of input signals are simultaneously input to the television via a graphics board or the like, the television only support H/V separate sync signal.

HDMI connector pin specifications

Pin	Input signal	Pin	Input signal
1	TMDS Data2+	11	TMDS Clock Shield
2	TMDS Data2 Shield	12	TMDS Clock-
3	TMDS Data2-	13	CEC
4	TMDS Data 1+	14	Reserved(N.C. on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC/CED Ground
8	TMDS Data0 Shield	18	+5V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		
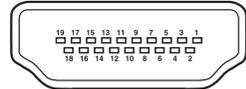
SCART1 connector pin specifications

Pin	Input signal	Pin	Input signal
1	AUDIO OUT (RIGHT)	12	NOT USED
2	AUDIO IN (RIGHT)	13	GND
3	AUDIO OUT (LEFT / MONO)	14	GND
4	GND	15	RGB-R IN
5	GND	16	BLANKING SIGNAL
6	AUDIO IN (LEFT / MONO)	17	GND
7	RGB-B IN	18	GND
8	AUDIO VIDEO SW/WIDE SCREEN	19	COMPOSITE VIDEO OUT
9	GND	20	COMPOSITE VIDEO IN
10	NOT USED	21	GND/SHIELD (CHASSIS)
11	RGB-G IN		
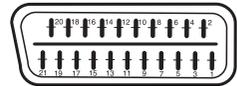
S-input connector pin specifications

Pin	Input signal
1	Y
2	Y-GND
3	C
4	C-GND
Frame	GND
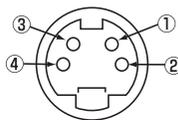
AV and HDMI Signal Compatibility (Input Signal Types)

| Source	Supported Signals	
SCART	PAL 50/60	
	NTSC 60	
	RGB 50	
	RGB 60	
YPbPr	480I	60Hz
	480P	60Hz
	576I	50Hz
	576P	50Hz
	720P	50Hz
	720P	60Hz
	1080I	50Hz
	1080I	60Hz
HDMI	480I	60Hz
	480P	60Hz
	576I	50Hz
	576P	50Hz
	720P	50Hz
	720P	60Hz
	1080I	50Hz
	1080I	60Hz

Note: In some cases a signal on the LCD TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

QUICK SET-UP GUIDE   HITACHI

MODEL 19LD5750U/22LD5750U

1. CONNECTING YOUR AERIAL

Back Side

(L)

(K)

(M)

(A) (B)   (C) (D)   (E) (F) (G) (H) (I)   (J)

(A) **Power supply:** Connect the supplied power cable to an AC 220-240V/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 insulation 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) **HEADPHONE jack:** Plug headphones with a mini plug (3.5 mm) into this jack.
(C) **COMPONENT input:** See P.43.
(D) **AV2 input:** Input for analogue AV-Signal (Composite or S-Video). See P.43.
(E) **DVB-T Digital audio output:** digital output for CD/DVD & DVB-T (see page 42).
(F) **PC MONITOR input (PC):** See P.39.
(G) **PC/HDMI AUDIO input:** See P.39, 40.
(H) **HDMI input :** See P.40.
(I) **Scart socket (AV1):** For the connection of scart cable. See P.41~43.
(J) **ANT:** Plug in the antenna (aerial) here.
(K) **C.I. slot:** for DVB-T-PayTV (see page 22).
(L) **Bracket holes:** Fix a wall mounting bracket (not supplied) here.
(M) To hang the television on a wall, remove these screws and then remove a stand.
Before performing work spread cushioning over the base area to lay the TV on.

2. INSTALLING BATTERIES

1. Open the battery compartment.
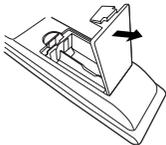
2. Install the R6 (AA-Size) batteries as shown below.
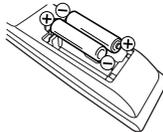
3. Close the battery compartment.
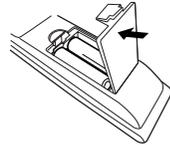
3. AUTO SETUP

Your television has an Automatic Tuning System which makes tuning in your television easy. This Automatic tuning System scans the entire reception range in your area and automatically stores all available analogue and digital channels of suitable signal strength in the correct order e.g. BBC 1 will tune into channel 1, BBC 2 will tune into channel 2, etc.

THE AUTOMATIC TUNING PROCESS WILL ONLY START BY ITSELF THE FIRST TIME YOU SWITCH THE SET ON. HOWEVER YOU CAN RESTART THIS PROCESS VIA THE MENU SYSTEM. (see next page.)

1. Press ⏻ on the TV or remote control. The Auto Installation menu will appear first.
Press ▲ or ▼ to select LANGUAGE, then press **ENTER**. Press ◄ or ► to select desired language, then press **ENTER**.

2. Press ▲ or ▼ to select COUNTRY, then press **ENTER**. Press ◄ or ► to select your country, then press **ENTER**.

3. Press ▲ or ▼ to select AUTO TUNING, then press **ENTER**. The confirmation screen will be displayed. Press **ENTER** to start automatic tuning.
Your TV will now automatically tune in all available channels.

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

4. When the programme on the screen stops changing and the sound comes on, the tuning process is complete.

AUTO INSTALLATION	
● LANGUAGE	ENGLISH
● COUNTRY	UK
● AUTO TUNING	
ENGLISH	
EXIT : END	MENU: RETURN

AUTO INSTALLATION	
● LANGUAGE	ENGLISH
● COUNTRY	UK
● AUTO TUNING	
UK	
EXIT : END	MENU: RETURN

AUTO INSTALLATION	
● LANGUAGE	ENGLISH
● COUNTRY	UK
● AUTO TUNING	
AUTO TUNING	
1%	
EXIT : END	MENU: RETURN

4. ON-SCREEN LANGUAGE SELECTION

[ANALOGUE MODE]

1. Press **TV/DVB-T** to select the analogue TV mode.

2. Press **ANALOG MENU**, then press ◄ or ► to select (SETUP) menu.

3. Press ▲ or ▼ to select LANGUAGE, then press **ENTER**. Press ◄ or ► to select desired language.

4. Press **EXIT** to return to the normal screen.

[DIGITAL MODE]

1. Press **TV/DVB-T** to select the digital TV mode.

2. Press **DIGITAL MENU**, then press ◄ or ► to select (Language Setup) option. Press **ENTER**.

3. Press ▲ or ▼ to select the item you want to change. Press ◄ or ► to select desired language.

4. When all changes are decided, press **EXIT** to return to the normal screen.

5. AUTO TUNING

[ANALOGUE MODE]

1. Press **TV/DVB-T** to select the analogue TV mode.

2. Press **ANALOG MENU**, then press ◄ or ► to select (SETUP) menu.

3. Press ▲ or ▼ to select AUTO TUNING, then press **ENTER**. Press ▲ or ▼ to select COUNTRY, then press **ENTER**. Press ◄ or ► to select your country, then press **ENTER**.

4. Press ▲ or ▼ to select START, then press **ENTER**. The automatic tuning will search for available broadcasts and should store the channels in the correct order. During the search the sound is muted.

5. When all programs have been stored, the normal TV screen will appear.

[DIGITAL MODE]

1. Press **TV/DVB-T** to select the digital TV mode.

2. Press **DIGITAL MENU**, then press ◄ or ►to select (Installation) option.

3. Press ▲ or ▼ to select 'Auto Scan', then press **ENTER**.

4. Press ◄ or ► to select 'Yes' or 'No' in the confirmation screen, then press **ENTER** (the selected option is shown in blue).

5. The Auto Scan process will now begin. The scanning process will be displayed in the progress bar. When the search has been completed 'Scan completed' message will be displayed. And the Auto Scan menu will exit automatically.
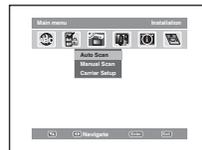
HITACHI

19LD5750U/22LD5750U Warranty

Hitachi Europe Ltd.

If Something doesn't seem to work

If there is something about your appliance which you do not understand and you live in the UK, you can phone our helpline during normal hours on: 0844 8009595. (COMET HELPLINE)

Calls are charged at standard rates.

Guarantor: Comet Group plc
Comet House Three Rivers Court
Rickmansworth, Hertfordshire,
WD3 1FX